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

Mr. Simon List
SiTech Consulting, PC.
9000 Breeland Way
Raleigh, NC 27613

September 03,2008

ESC Sample # : L361687-01

Date Received : August 23, 2008
Description : 832 Hughes

Site ID :

Sample ID : S4.1 6FT

Project # : 1252

Collected By : S. R. List
Collection Date : 08/22/08 00:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	80.3		%	2540G	08/29/08	1
Volatile Petroleum Hydrocarbons	BDL	5.9	mg/kg	MADEPV	08/30/08	47.5
C5-C8 Aliphatics	BDL	5.9	mg/kg	MADEPV	08/30/08	47.5
C9-C12 Aliphatics	BDL	5.9	mg/kg	MADEPV	08/30/08	47.5
C9-C10 Aromatics	BDL	5.9	mg/kg	MADEPV	08/30/08	47.5
Surrogate Recovery						
2,5-Dibromotoluene(FID)	90.6		% Rec.	MADEPV	08/30/08	47.5
2,5-Dibromotoluene(PID)	86.8		% Rec.	MADEPV	08/30/08	47.5
Volatile Organics						
Acetone	BDL	0.062	mg/kg	8260B	08/26/08	1
Acrylonitrile	BDL	0.012	mg/kg	8260B	08/26/08	1
Benzene	BDL	0.0012	mg/kg	8260B	08/26/08	1
Bromobenzene	BDL	0.0012	mg/kg	8260B	08/26/08	1
Bromodichloromethane	BDL	0.0012	mg/kg	8260B	08/26/08	1
Bromoform	BDL	0.0012	mg/kg	8260B	08/26/08	1
Bromomethane	BDL	0.0062	mg/kg	8260B	08/26/08	1
n-Butylbenzene	BDL	0.0012	mg/kg	8260B	08/26/08	1
sec-Butylbenzene	BDL	0.0012	mg/kg	8260B	08/26/08	1
tert-Butylbenzene	BDL	0.0012	mg/kg	8260B	08/26/08	1
Carbon tetrachloride	BDL	0.0012	mg/kg	8260B	08/26/08	1
Chlorobenzene	BDL	0.0012	mg/kg	8260B	08/26/08	1
Chlorodibromomethane	BDL	0.0012	mg/kg	8260B	08/26/08	1
Chloroethane	BDL	0.0062	mg/kg	8260B	08/26/08	1
2-Chloroethyl vinyl ether	BDL	0.062	mg/kg	8260B	08/26/08	1
Chloroform	BDL	0.0062	mg/kg	8260B	08/26/08	1
Chloromethane	BDL	0.0012	mg/kg	8260B	08/26/08	1
2-Chlorotoluene	BDL	0.0012	mg/kg	8260B	08/26/08	1
4-Chlorotoluene	BDL	0.0012	mg/kg	8260B	08/26/08	1
1,2-Dibromo-3-Chloropropane	BDL	0.0062	mg/kg	8260B	08/26/08	1
1,2-Dibromoethane	BDL	0.0012	mg/kg	8260B	08/26/08	1
Dibromomethane	BDL	0.0012	mg/kg	8260B	08/26/08	1
1,2-Dichlorobenzene	BDL	0.0012	mg/kg	8260B	08/26/08	1
1,3-Dichlorobenzene	BDL	0.0012	mg/kg	8260B	08/26/08	1
1,4-Dichlorobenzene	BDL	0.0012	mg/kg	8260B	08/26/08	1
Dichlorodifluoromethane	BDL	0.0062	mg/kg	8260B	08/26/08	1
1,1-Dichloroethane	BDL	0.0012	mg/kg	8260B	08/26/08	1
1,2-Dichloroethane	BDL	0.0012	mg/kg	8260B	08/26/08	1
1,1-Dichloroethene	BDL	0.0012	mg/kg	8260B	08/26/08	1
cis-1,2-Dichloroethene	BDL	0.0012	mg/kg	8260B	08/26/08	1
trans-1,2-Dichloroethene	BDL	0.0012	mg/kg	8260B	08/26/08	1
1,2-Dichloropropane	BDL	0.0012	mg/kg	8260B	08/26/08	1
1,1-Dichloropropene	BDL	0.0012	mg/kg	8260B	08/26/08	1

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

The reported analytical results relate only to the sample submitted

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Raleigh, NC 27613

September 03,2008

ESC Sample # : L361687-01

Date Received : August 23, 2008
Description : 832 Hughes

Site ID :

Sample ID : S4.1 6FT

Project # : 1252

Collected By : S. R. List
Collection Date : 08/22/08 00:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
1,3-Dichloropropane	BDL	0.0012	mg/kg	8260B	08/26/08	1
cis-1,3-Dichloropropene	BDL	0.0012	mg/kg	8260B	08/26/08	1
trans-1,3-Dichloropropene	BDL	0.0012	mg/kg	8260B	08/26/08	1
2,2-Dichloropropane	BDL	0.0012	mg/kg	8260B	08/26/08	1
Di-isopropyl ether	BDL	0.0012	mg/kg	8260B	08/26/08	1
Ethylbenzene	BDL	0.0012	mg/kg	8260B	08/26/08	1
Hexachloro-1,3-butadiene	BDL	0.0012	mg/kg	8260B	08/26/08	1
Isopropylbenzene	BDL	0.0012	mg/kg	8260B	08/26/08	1
p-Isopropyltoluene	BDL	0.0012	mg/kg	8260B	08/26/08	1
2-Butanone (MEK)	BDL	0.012	mg/kg	8260B	08/26/08	1
Methylene Chloride	BDL	0.0062	mg/kg	8260B	08/26/08	1
4-Methyl-2-pentanone (MIBK)	BDL	0.012	mg/kg	8260B	08/26/08	1
Methyl tert-butyl ether	BDL	0.0012	mg/kg	8260B	08/26/08	1
Naphthalene	BDL	0.0062	mg/kg	8260B	08/26/08	1
n-Propylbenzene	BDL	0.0012	mg/kg	8260B	08/26/08	1
Styrene	BDL	0.0012	mg/kg	8260B	08/26/08	1
1,1,1,2-Tetrachloroethane	BDL	0.0012	mg/kg	8260B	08/26/08	1
1,1,2,2-Tetrachloroethane	BDL	0.0012	mg/kg	8260B	08/26/08	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0012	mg/kg	8260B	08/26/08	1
Tetrachloroethene	BDL	0.0012	mg/kg	8260B	08/26/08	1
Toluene	BDL	0.0062	mg/kg	8260B	08/26/08	1
1,2,3-Trichlorobenzene	BDL	0.0012	mg/kg	8260B	08/26/08	1
1,2,4-Trichlorobenzene	BDL	0.0012	mg/kg	8260B	08/26/08	1
1,1,1-Trichloroethane	BDL	0.0012	mg/kg	8260B	08/26/08	1
1,1,2-Trichloroethane	BDL	0.0012	mg/kg	8260B	08/26/08	1
Trichloroethene	BDL	0.0012	mg/kg	8260B	08/26/08	1
Trichlorofluoromethane	BDL	0.0062	mg/kg	8260B	08/26/08	1
1,2,3-Trichloropropane	BDL	0.0012	mg/kg	8260B	08/26/08	1
1,2,4-Trimethylbenzene	BDL	0.0012	mg/kg	8260B	08/26/08	1
1,2,3-Trimethylbenzene	BDL	0.0012	mg/kg	8260B	08/26/08	1
1,3,5-Trimethylbenzene	BDL	0.0012	mg/kg	8260B	08/26/08	1
Vinyl chloride	BDL	0.0012	mg/kg	8260B	08/26/08	1
Xylenes, Total	BDL	0.0037	mg/kg	8260B	08/26/08	1
Surrogate Recovery						
Toluene-d8	99.2		% Rec.	8260B	08/26/08	1
Dibromofluoromethane	99.5		% Rec.	8260B	08/26/08	1
4-Bromofluorobenzene	98.5		% Rec.	8260B	08/26/08	1
Extractable Petroleum Hydrocarb	BDL	8.1	mg/kg	MADEPE	08/29/08	1
C9-C18 Aliphatics	BDL	8.1	mg/kg	MADEPE	08/29/08	1
C19-C36 Aliphatics	BDL	8.1	mg/kg	MADEPE	08/29/08	1
C11-C22 Aromatics	0.0	6.5	mg/kg	MADEPE	08/29/08	1
Surrogate Recovery						
o-Terphenyl	87.3		% Rec.	MADEPE	08/29/08	1

Results listed are dry weight basis.
BDL - Below Detection Limit
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September 03,2008

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Date Received : August 23, 2008
Description : 832 Hughes

Site ID :

Sample ID : S4.1 6FT

Project # : 1252

Collected By : S. R. List
Collection Date : 08/22/08 00:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
1-Chloro-octadecane	86.0		% Rec.	MADEPE	08/29/08	1
2-Fluorobiphenyl	72.3		% Rec.	MADEPE	08/29/08	1
2-Bromonaphthanene	69.4		% Rec.	MADEPE	08/29/08	1
Base/Neutral Extractables						
Acenaphthene	BDL	0.41	mg/kg	8270C	08/29/08	1
Acenaphthylene	BDL	0.41	mg/kg	8270C	08/29/08	1
Anthracene	BDL	0.41	mg/kg	8270C	08/29/08	1
Benzidine	BDL	0.41	mg/kg	8270C	08/29/08	1
Benzo(a)anthracene	BDL	0.41	mg/kg	8270C	08/29/08	1
Benzo(b)fluoranthene	BDL	0.41	mg/kg	8270C	08/29/08	1
Benzo(k)fluoranthene	BDL	0.41	mg/kg	8270C	08/29/08	1
Benzo(g,h,i)perylene	BDL	0.41	mg/kg	8270C	08/29/08	1
Benzo(a)pyrene	BDL	0.41	mg/kg	8270C	08/29/08	1
Bis(2-chlorethoxy)methane	BDL	0.41	mg/kg	8270C	08/29/08	1
Bis(2-chloroethyl)ether	BDL	0.41	mg/kg	8270C	08/29/08	1
Bis(2-chloroisopropyl)ether	BDL	0.41	mg/kg	8270C	08/29/08	1
4-Bromophenyl-phenylether	BDL	0.41	mg/kg	8270C	08/29/08	1
2-Chloronaphthalene	BDL	0.41	mg/kg	8270C	08/29/08	1
4-Chlorophenyl-phenylether	BDL	0.41	mg/kg	8270C	08/29/08	1
Chrysene	BDL	0.41	mg/kg	8270C	08/29/08	1
Dibenz(a,h)anthracene	BDL	0.41	mg/kg	8270C	08/29/08	1
3,3-Dichlorobenzidine	BDL	0.41	mg/kg	8270C	08/29/08	1
2,4-Dinitrotoluene	BDL	0.41	mg/kg	8270C	08/29/08	1
2,6-Dinitrotoluene	BDL	0.41	mg/kg	8270C	08/29/08	1
Fluoranthene	BDL	0.41	mg/kg	8270C	08/29/08	1
Fluorene	BDL	0.41	mg/kg	8270C	08/29/08	1
Hexachlorobenzene	BDL	0.41	mg/kg	8270C	08/29/08	1
Hexachloro-1,3-butadiene	BDL	0.41	mg/kg	8270C	08/29/08	1
Hexachlorocyclopentadiene	BDL	0.41	mg/kg	8270C	08/29/08	1
Hexachloroethane	BDL	0.41	mg/kg	8270C	08/29/08	1
Indeno(1,2,3-cd)pyrene	BDL	0.41	mg/kg	8270C	08/29/08	1
Isophorone	BDL	0.41	mg/kg	8270C	08/29/08	1
Naphthalene	BDL	0.41	mg/kg	8270C	08/29/08	1
Nitrobenzene	BDL	0.41	mg/kg	8270C	08/29/08	1
n-Nitrosodimethylamine	BDL	0.41	mg/kg	8270C	08/29/08	1
n-Nitrosodiphenylamine	BDL	0.41	mg/kg	8270C	08/29/08	1
n-Nitrosodi-n-propylamine	BDL	0.41	mg/kg	8270C	08/29/08	1
Phenanthrene	BDL	0.41	mg/kg	8270C	08/29/08	1
Benzylbutyl phthalate	BDL	0.41	mg/kg	8270C	08/29/08	1
Bis(2-ethylhexyl)phthalate	BDL	0.41	mg/kg	8270C	08/29/08	1
Di-n-butyl phthalate	BDL	0.41	mg/kg	8270C	08/29/08	1
Diethyl phthalate	BDL	0.41	mg/kg	8270C	08/29/08	1
Dimethyl phthalate	BDL	0.41	mg/kg	8270C	08/29/08	1

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REPORT OF ANALYSIS

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SiTech Consulting, PC.
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Raleigh, NC 27613

September 03,2008

Date Received : August 23, 2008
Description : 832 Hughes

Sample ID : S4.1 6FT

Collected By : S. R. List
Collection Date : 08/22/08 00:00

ESC Sample # : L361687-01

Site ID :

Project # : 1252

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Di-n-octyl phthalate	BDL	0.41	mg/kg	8270C	08/29/08	1
Pyrene	BDL	0.41	mg/kg	8270C	08/29/08	1
1,2,4-Trichlorobenzene	BDL	0.41	mg/kg	8270C	08/29/08	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	0.41	mg/kg	8270C	08/29/08	1
2-Chlorophenol	BDL	0.41	mg/kg	8270C	08/29/08	1
2,4-Dichlorophenol	BDL	0.41	mg/kg	8270C	08/29/08	1
2,4-Dimethylphenol	BDL	0.41	mg/kg	8270C	08/29/08	1
4,6-Dinitro-2-methylphenol	BDL	0.41	mg/kg	8270C	08/29/08	1
2,4-Dinitrophenol	BDL	0.41	mg/kg	8270C	08/29/08	1
2-Nitrophenol	BDL	0.41	mg/kg	8270C	08/29/08	1
4-Nitrophenol	BDL	0.41	mg/kg	8270C	08/29/08	1
Pentachlorophenol	BDL	0.41	mg/kg	8270C	08/29/08	1
Phenol	BDL	0.41	mg/kg	8270C	08/29/08	1
2,4,6-Trichlorophenol	BDL	0.41	mg/kg	8270C	08/29/08	1
Surrogate Recovery						
Nitrobenzene-d5	80.3		% Rec.	8270C	08/29/08	1
2-Fluorobiphenyl	81.6		% Rec.	8270C	08/29/08	1
p-Terphenyl-d14	104.		% Rec.	8270C	08/29/08	1
Phenol-d5	92.7		% Rec.	8270C	08/29/08	1
2-Fluorophenol	90.8		% Rec.	8270C	08/29/08	1
2,4,6-Tribromophenol	76.0		% Rec.	8270C	08/29/08	1

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Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted
Reported: 09/03/08 12:47 Printed: 09/03/08 12:47

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L361687-01	Benzidine	J4

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J4	The associated batch QC was outside the established quality control range for accuracy.

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.

Summary of Remarks For Samples Printed
09/03/08 at 12:47:54

TSR Signing Reports: 064
R5 - Desired TAT

Sample: L361687-01 Account: SITCONRNC Received: 08/23/08 07:45 Due Date: 08/29/08 00:00 RPT Date: 09/03/08 12:47

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Raleigh, NC 27613

Quality Assurance Report
Level II

L361687

September 03, 2008

Laboratory Blank

Analyte	Result	Units	Date Analyzed	Batch
1,1,1,2-Tetrachloroethane	< .001	mg/kg	08/26/08 10:28	WG379701
1,1,1-Trichloroethane	< .001	mg/kg	08/26/08 10:28	WG379701
1,1,2,2-Tetrachloroethane	< .001	mg/kg	08/26/08 10:28	WG379701
1,1,2-Trichloroethane	< .001	mg/kg	08/26/08 10:28	WG379701
1,1,2-Trichloro-1,2,2-trifluoroethane	< .001	mg/kg	08/26/08 10:28	WG379701
1,1-Dichloroethane	< .001	mg/kg	08/26/08 10:28	WG379701
1,1-Dichloroethene	< .001	mg/kg	08/26/08 10:28	WG379701
1,1-Dichloropropene	< .001	mg/kg	08/26/08 10:28	WG379701
1,2,3-Trichlorobenzene	< .001	mg/kg	08/26/08 10:28	WG379701
1,2,3-Trichloropropane	< .001	mg/kg	08/26/08 10:28	WG379701
1,2,3-Trimethylbenzene	< .001	mg/kg	08/26/08 10:28	WG379701
1,2,4-Trichlorobenzene	< .001	mg/kg	08/26/08 10:28	WG379701
1,2,4-Trimethylbenzene	< .001	mg/kg	08/26/08 10:28	WG379701
1,2-Dibromo-3-Chloropropane	< .005	mg/kg	08/26/08 10:28	WG379701
1,2-Dibromoethane	< .001	mg/kg	08/26/08 10:28	WG379701
1,2-Dichlorobenzene	< .001	mg/kg	08/26/08 10:28	WG379701
1,2-Dichloroethane	< .001	mg/kg	08/26/08 10:28	WG379701
1,2-Dichloropropane	< .001	mg/kg	08/26/08 10:28	WG379701
1,3,5-Trimethylbenzene	< .001	mg/kg	08/26/08 10:28	WG379701
1,3-Dichlorobenzene	< .001	mg/kg	08/26/08 10:28	WG379701
1,3-Dichloropropane	< .001	mg/kg	08/26/08 10:28	WG379701
1,4-Dichlorobenzene	< .001	mg/kg	08/26/08 10:28	WG379701
2,2-Dichloropropane	< .001	mg/kg	08/26/08 10:28	WG379701
2-Butanone (MEK)	< .01	mg/kg	08/26/08 10:28	WG379701
2-Chloroethyl vinyl ether	< .001	mg/kg	08/26/08 10:28	WG379701
2-Chlorotoluene	< .001	mg/kg	08/26/08 10:28	WG379701
4-Chlorotoluene	< .001	mg/kg	08/26/08 10:28	WG379701
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg	08/26/08 10:28	WG379701
Acetone	< .05	mg/kg	08/26/08 10:28	WG379701
Acrylonitrile	< .01	mg/kg	08/26/08 10:28	WG379701
Benzene	< .001	mg/kg	08/26/08 10:28	WG379701
Bromobenzene	< .001	mg/kg	08/26/08 10:28	WG379701
Bromodichloromethane	< .001	mg/kg	08/26/08 10:28	WG379701
Bromoform	< .001	mg/kg	08/26/08 10:28	WG379701
Bromomethane	< .005	mg/kg	08/26/08 10:28	WG379701
Carbon tetrachloride	< .001	mg/kg	08/26/08 10:28	WG379701
Chlorobenzene	< .001	mg/kg	08/26/08 10:28	WG379701
Chlorodibromomethane	< .001	mg/kg	08/26/08 10:28	WG379701
Chloroethane	< .005	mg/kg	08/26/08 10:28	WG379701
Chloroform	< .005	mg/kg	08/26/08 10:28	WG379701
Chloromethane	< .001	mg/kg	08/26/08 10:28	WG379701
cis-1,2-Dichloroethene	< .001	mg/kg	08/26/08 10:28	WG379701
cis-1,3-Dichloropropene	< .001	mg/kg	08/26/08 10:28	WG379701
Di-isopropyl ether	< .001	mg/kg	08/26/08 10:28	WG379701
Dibromomethane	< .001	mg/kg	08/26/08 10:28	WG379701
Dichlorodifluoromethane	< .005	mg/kg	08/26/08 10:28	WG379701
Ethylbenzene	< .001	mg/kg	08/26/08 10:28	WG379701
Hexachloro-1,3-butadiene	< .001	mg/kg	08/26/08 10:28	WG379701
Isopropylbenzene	< .001	mg/kg	08/26/08 10:28	WG379701
Methyl tert-butyl ether	< .001	mg/kg	08/26/08 10:28	WG379701
Methylene Chloride	< .005	mg/kg	08/26/08 10:28	WG379701
n-Butylbenzene	< .001	mg/kg	08/26/08 10:28	WG379701
n-Propylbenzene	< .001	mg/kg	08/26/08 10:28	WG379701
Naphthalene	< .005	mg/kg	08/26/08 10:28	WG379701
p-Isopropyltoluene	< .001	mg/kg	08/26/08 10:28	WG379701
sec-Butylbenzene	< .001	mg/kg	08/26/08 10:28	WG379701
Styrene	< .001	mg/kg	08/26/08 10:28	WG379701
tert-Butylbenzene	< .001	mg/kg	08/26/08 10:28	WG379701
Tetrachloroethene	< .001	mg/kg	08/26/08 10:28	WG379701
Toluene	< .005	mg/kg	08/26/08 10:28	WG379701

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Quality Assurance Report
Level II

L361687

September 03, 2008

trans-1,2-Dichloroethene	< .001	mg/kg	08/26/08 10:28	WG379701

Laboratory Blank

Analyte	Result	Units	Date Analyzed	Batch
trans-1,3-Dichloropropene	< .001	mg/kg	08/26/08 10:28	WG379701
Trichloroethene	< .001	mg/kg	08/26/08 10:28	WG379701
Trichlorofluoromethane	< .005	mg/kg	08/26/08 10:28	WG379701
Vinyl chloride	< .001	mg/kg	08/26/08 10:28	WG379701
Xylenes, Total	< .003	mg/kg	08/26/08 10:28	WG379701
1,2,4-Trichlorobenzene	< .33	ppm	08/27/08 23:20	WG379820
2,4,6-Trichlorophenol	< .33	ppm	08/27/08 23:20	WG379820
2,4-Dichlorophenol	< .33	ppm	08/27/08 23:20	WG379820
2,4-Dimethylphenol	< .33	ppm	08/27/08 23:20	WG379820
2,4-Dinitrophenol	< .33	ppm	08/27/08 23:20	WG379820
2,4-Dinitrotoluene	< .33	ppm	08/27/08 23:20	WG379820
2,6-Dinitrotoluene	< .33	ppm	08/27/08 23:20	WG379820
2-Chloronaphthalene	< .33	ppm	08/27/08 23:20	WG379820
2-Chlorophenol	< .33	ppm	08/27/08 23:20	WG379820
2-Nitrophenol	< .33	ppm	08/27/08 23:20	WG379820
3,3-Dichlorobenzidine	< .33	ppm	08/27/08 23:20	WG379820
4,6-Dinitro-2-methylphenol	< .33	ppm	08/27/08 23:20	WG379820
4-Bromophenyl-phenylether	< .33	ppm	08/27/08 23:20	WG379820
4-Chloro-3-methylphenol	< .33	ppm	08/27/08 23:20	WG379820
4-Chlorophenyl-phenylether	< .33	ppm	08/27/08 23:20	WG379820
4-Nitrophenol	< .33	ppm	08/27/08 23:20	WG379820
Acenaphthene	< .33	ppm	08/27/08 23:20	WG379820
Acenaphthylene	< .33	ppm	08/27/08 23:20	WG379820
Anthracene	< .33	ppm	08/27/08 23:20	WG379820
Benzidine	< .33	ppm	08/27/08 23:20	WG379820
Benzo(a)anthracene	< .33	ppm	08/27/08 23:20	WG379820
Benzo(a)pyrene	< .33	ppm	08/27/08 23:20	WG379820
Benzo(b)fluoranthene	< .33	ppm	08/27/08 23:20	WG379820
Benzo(g,h,i)perylene	< .33	ppm	08/27/08 23:20	WG379820
Benzo(k)fluoranthene	< .33	ppm	08/27/08 23:20	WG379820
Benzylbutyl phthalate	< .33	ppm	08/27/08 23:20	WG379820
Bis(2-chlorethoxy)methane	< .33	ppm	08/27/08 23:20	WG379820
Bis(2-chloroethyl)ether	< .33	ppm	08/27/08 23:20	WG379820
Bis(2-chloroisopropyl)ether	< .33	ppm	08/27/08 23:20	WG379820
Bis(2-ethylhexyl)phthalate	< .33	ppm	08/27/08 23:20	WG379820
Chrysene	< .33	ppm	08/27/08 23:20	WG379820
Di-n-butyl phthalate	< .33	ppm	08/27/08 23:20	WG379820
Di-n-octyl phthalate	< .33	ppm	08/27/08 23:20	WG379820
Dibenz(a,h)anthracene	< .33	ppm	08/27/08 23:20	WG379820
Diethyl phthalate	< .33	ppm	08/27/08 23:20	WG379820
Dimethyl phthalate	< .33	ppm	08/27/08 23:20	WG379820
Fluoranthene	< .33	ppm	08/27/08 23:20	WG379820
Fluorene	< .33	ppm	08/27/08 23:20	WG379820
Hexachloro-1,3-butadiene	< .33	ppm	08/27/08 23:20	WG379820
Hexachlorobenzene	< .33	ppm	08/27/08 23:20	WG379820
Hexachlorocyclopentadiene	< .33	ppm	08/27/08 23:20	WG379820
Hexachloroethane	< .33	ppm	08/27/08 23:20	WG379820
Indeno(1,2,3-cd)pyrene	< .33	ppm	08/27/08 23:20	WG379820
Isophorone	< .33	ppm	08/27/08 23:20	WG379820
n-Nitrosodi-n-propylamine	< .33	ppm	08/27/08 23:20	WG379820
n-Nitrosodimethylamine	< .33	ppm	08/27/08 23:20	WG379820
n-Nitrosodiphenylamine	< .33	ppm	08/27/08 23:20	WG379820
Naphthalene	< .33	ppm	08/27/08 23:20	WG379820
Nitrobenzene	< .33	ppm	08/27/08 23:20	WG379820
Pentachlorophenol	< .33	ppm	08/27/08 23:20	WG379820
Phenanthrene	< .33	ppm	08/27/08 23:20	WG379820
Phenol	< .33	ppm	08/27/08 23:20	WG379820
Pyrene	< .33	ppm	08/27/08 23:20	WG379820

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Level II

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September 03, 2008

Laboratory Blank

Analyte	Result	Units	Date Analyzed	Batch
Total Solids	< .1	%	08/29/08 10:28	WG380336

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Total Solids	%	80.7	79.8	1.10	5	L361689-02	WG380336

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/kg	.05	0.0479	95.8	73-134	WG379701
1,1,1-Trichloroethane	mg/kg	.05	0.0472	94.4	62-135	WG379701
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.0510	102.	74-129	WG379701
1,1,2-Trichloroethane	mg/kg	.05	0.0489	97.7	77-124	WG379701
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	.05	0.0428	85.7	49-155	WG379701
1,1-Dichloroethane	mg/kg	.05	0.0467	93.4	61-134	WG379701
1,1-Dichloroethene	mg/kg	.05	0.0387	77.3	53-136	WG379701
1,1-Dichloropropene	mg/kg	.05	0.0458	91.6	63-132	WG379701
1,2,3-Trichlorobenzene	mg/kg	.05	0.0463	92.6	62-146	WG379701
1,2,3-Trichloropropane	mg/kg	.05	0.0490	97.9	70-133	WG379701
1,2,3-Trimethylbenzene	mg/kg	.05	0.0499	99.8	73-126	WG379701
1,2,4-Trichlorobenzene	mg/kg	.05	0.0443	88.6	61-148	WG379701
1,2,4-Trimethylbenzene	mg/kg	.05	0.0475	95.0	68-135	WG379701
1,2-Dibromo-3-Chloropropane	mg/kg	.05	0.0469	93.7	61-134	WG379701
1,2-Dibromoethane	mg/kg	.05	0.0489	97.7	76-127	WG379701
1,2-Dichlorobenzene	mg/kg	.05	0.0487	97.4	77-123	WG379701
1,2-Dichloroethane	mg/kg	.05	0.0509	102.	58-141	WG379701
1,2-Dichloropropane	mg/kg	.05	0.0492	98.3	71-128	WG379701
1,3,5-Trimethylbenzene	mg/kg	.05	0.0484	96.8	71-133	WG379701
1,3-Dichlorobenzene	mg/kg	.05	0.0437	87.4	71-132	WG379701
1,3-Dichloropropane	mg/kg	.05	0.0485	96.9	76-120	WG379701
1,4-Dichlorobenzene	mg/kg	.05	0.0452	90.3	72-123	WG379701
2,2-Dichloropropane	mg/kg	.05	0.0475	94.9	50-147	WG379701
2-Butanone (MEK)	mg/kg	.25	0.276	110.	51-131	WG379701
2-Chloroethyl vinyl ether	mg/kg	.25	0.230	91.9	0-188	WG379701
2-Chlorotoluene	mg/kg	.05	0.0463	92.7	73-128	WG379701
4-Chlorotoluene	mg/kg	.05	0.0462	92.4	72-129	WG379701
4-Methyl-2-pentanone (MIBK)	mg/kg	.25	0.287	115.	61-143	WG379701
Acetone	mg/kg	.25	0.253	101.	44-140	WG379701
Acrylonitrile	mg/kg	.25	0.282	113.	55-143	WG379701
Benzene	mg/kg	.05	0.0457	91.5	65-128	WG379701
Bromobenzene	mg/kg	.05	0.0487	97.5	75-123	WG379701
Bromodichloromethane	mg/kg	.05	0.0543	109.	66-126	WG379701
Bromoform	mg/kg	.05	0.0451	90.2	64-139	WG379701
Bromomethane	mg/kg	.05	0.0434	86.8	41-175	WG379701
Carbon tetrachloride	mg/kg	.05	0.0473	94.5	60-140	WG379701
Chlorobenzene	mg/kg	.05	0.0456	91.2	75-125	WG379701
Chlorodibromomethane	mg/kg	.05	0.0507	101.	72-137	WG379701
Chloroethane	mg/kg	.05	0.0429	85.7	44-159	WG379701
Chloroform	mg/kg	.05	0.0484	96.8	63-123	WG379701
Chloromethane	mg/kg	.05	0.0409	81.7	42-149	WG379701
cis-1,2-Dichloroethene	mg/kg	.05	0.0466	93.2	71-129	WG379701
cis-1,3-Dichloropropene	mg/kg	.05	0.0560	112.	73-132	WG379701
Di-isopropyl ether	mg/kg	.05	0.0509	102.	59-143	WG379701
Dibromomethane	mg/kg	.05	0.0501	100.	70-130	WG379701
Dichlorodifluoromethane	mg/kg	.05	0.0400	80.0	26-186	WG379701
Ethylbenzene	mg/kg	.05	0.0475	95.0	74-128	WG379701
Hexachloro-1,3-butadiene	mg/kg	.05	0.0505	101.	65-137	WG379701
Isopropylbenzene	mg/kg	.05	0.0480	96.1	73-130	WG379701

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September 03, 2008

Methyl tert-butyl ether	mg/kg	.05	0.0521	104.	44-148	WG379701

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Methylene Chloride	mg/kg	.05	0.0416	83.1	57-129	WG379701
n-Butylbenzene	mg/kg	.05	0.0516	103.	60-145	WG379701
n-Propylbenzene	mg/kg	.05	0.0464	92.9	71-132	WG379701
Naphthalene	mg/kg	.05	0.0486	97.3	61-142	WG379701
p-Isopropyltoluene	mg/kg	.05	0.0474	94.8	67-138	WG379701
sec-Butylbenzene	mg/kg	.05	0.0487	97.4	71-134	WG379701
Styrene	mg/kg	.05	0.0435	87.0	76-133	WG379701
tert-Butylbenzene	mg/kg	.05	0.0470	94.0	72-132	WG379701
Tetrachloroethene	mg/kg	.05	0.0428	85.7	65-135	WG379701
Toluene	mg/kg	.05	0.0471	94.2	70-120	WG379701
trans-1,2-Dichloroethene	mg/kg	.05	0.0402	80.4	61-133	WG379701
trans-1,3-Dichloropropene	mg/kg	.05	0.0568	114.	70-135	WG379701
Trichloroethene	mg/kg	.05	0.0475	95.0	71-126	WG379701
Trichlorofluoromethane	mg/kg	.05	0.0420	83.9	52-147	WG379701
Vinyl chloride	mg/kg	.05	0.0414	82.8	50-151	WG379701
Xylenes, Total	mg/kg	.15	0.136	90.7	74-127	WG379701
1,2,4-Trichlorobenzene	ppm	.333	0.200	60.0	46-99	WG379820
2,4,6-Trichlorophenol	ppm	.333	0.217	65.3	56-109	WG379820
2,4-Dichlorophenol	ppm	.333	0.212	63.5	54-107	WG379820
2,4-Dimethylphenol	ppm	.333	0.310	93.2	58-119	WG379820
2,4-Dinitrophenol	ppm	.333	0.178	53.5	16-130	WG379820
2,4-Dinitrotoluene	ppm	.333	0.210	63.2	53-120	WG379820
2,6-Dinitrotoluene	ppm	.333	0.203	60.9	56-113	WG379820
2-Chloronaphthalene	ppm	.333	0.224	67.2	55-103	WG379820
2-Chlorophenol	ppm	.333	0.236	70.7	52-108	WG379820
2-Nitrophenol	ppm	.333	0.233	70.0	38-110	WG379820
3,3-Dichlorobenzidine	ppm	.333	0.134	40.2	24-123	WG379820
4,6-Dinitro-2-methylphenol	ppm	.333	0.199	59.7	34-111	WG379820
4-Bromophenyl-phenylether	ppm	.333	0.213	64.0	47-98	WG379820
4-Chloro-3-methylphenol	ppm	.333	0.218	65.5	54-116	WG379820
4-Chlorophenyl-phenylether	ppm	.333	0.228	68.6	55-106	WG379820
4-Nitrophenol	ppm	.333	0.211	63.3	34-123	WG379820
Acenaphthene	ppm	.333	0.221	66.4	54-102	WG379820
Acenaphthylene	ppm	.333	0.222	66.8	56-104	WG379820
Anthracene	ppm	.333	0.225	67.5	57-112	WG379820
Benzidine	ppm	.333	0.0536	16.1	0-13	WG379820
Benzo(a)anthracene	ppm	.333	0.224	67.3	55-105	WG379820
Benzo(a)pyrene	ppm	.333	0.231	69.4	59-114	WG379820
Benzo(b)fluoranthene	ppm	.333	0.230	69.2	44-116	WG379820
Benzo(g,h,i)perylene	ppm	.333	0.218	65.5	41-127	WG379820
Benzo(k)fluoranthene	ppm	.333	0.233	70.1	36-119	WG379820
Benzylbutyl phthalate	ppm	.333	0.266	80.0	57-130	WG379820
Bis(2-chlorethoxy)methane	ppm	.333	0.258	77.5	52-107	WG379820
Bis(2-chloroethyl)ether	ppm	.333	0.269	80.7	38-115	WG379820
Bis(2-chloroisopropyl)ether	ppm	.333	0.268	80.5	49-106	WG379820
Bis(2-ethylhexyl)phthalate	ppm	.333	0.270	81.2	50-130	WG379820
Chrysene	ppm	.333	0.229	68.7	54-103	WG379820
Di-n-butyl phthalate	ppm	.333	0.257	77.1	56-121	WG379820
Di-n-octyl phthalate	ppm	.333	0.244	73.2	50-128	WG379820
Dibenz(a,h)anthracene	ppm	.333	0.218	65.6	42-128	WG379820
Diethyl phthalate	ppm	.333	0.217	65.1	57-110	WG379820
Dimethyl phthalate	ppm	.333	0.237	71.1	57-108	WG379820
Fluoranthene	ppm	.333	0.223	67.0	51-109	WG379820
Fluorene	ppm	.333	0.218	65.4	53-106	WG379820
Hexachloro-1,3-butadiene	ppm	.333	0.215	64.6	46-110	WG379820
Hexachlorobenzene	ppm	.333	0.217	65.3	51-117	WG379820
Hexachlorocyclopentadiene	ppm	.333	0.244	73.4	21-127	WG379820
Hexachloroethane	ppm	.333	0.225	67.7	43-104	WG379820

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Indeno(1,2,3-cd)pyrene	ppm	.333	0.220	66.2	42-127	WG379820

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Isophorone	ppm	.333	0.232	69.6	56-116	WG379820
n-Nitrosodi-n-propylamine	ppm	.333	0.305	91.6	54-113	WG379820
n-Nitrosodimethylamine	ppm	.333	0.253	75.9	35-111	WG379820
n-Nitrosodiphenylamine	ppm	.333	0.239	71.7	66-126	WG379820
Naphthalene	ppm	.333	0.217	65.0	46-97	WG379820
Nitrobenzene	ppm	.333	0.236	70.8	46-102	WG379820
Pentachlorophenol	ppm	.333	0.225	67.4	37-118	WG379820
Phenanthrene	ppm	.333	0.224	67.4	56-102	WG379820
Phenol	ppm	.333	0.252	75.8	55-115	WG379820
Pyrene	ppm	.333	0.230	69.0	53-111	WG379820
Total Solids	%	50	50.0	100.	85-115	WG380336

Laboratory Control Sample Duplicate

Analyte	Units	LCSD Res	Ref Res	RPD	Limit	%Rec	Batch
1,1,1,2-Tetrachloroethane	mg/kg	0.0489	0.0479	2.01	20	98	WG379701
1,1,1-Trichloroethane	mg/kg	0.0477	0.0472	1.07	20	95	WG379701
1,1,2,2-Tetrachloroethane	mg/kg	0.0521	0.0510	2.09	20	104	WG379701
1,1,2-Trichloroethane	mg/kg	0.0497	0.0489	1.79	20	99	WG379701
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.0434	0.0428	1.30	20	87	WG379701
1,1-Dichloroethane	mg/kg	0.0477	0.0467	2.01	20	95	WG379701
1,1-Dichloroethene	mg/kg	0.0389	0.0387	0.657	20	78	WG379701
1,1-Dichloropropene	mg/kg	0.0463	0.0458	1.13	20	93	WG379701
1,2,3-Trichlorobenzene	mg/kg	0.0469	0.0463	1.27	20	94	WG379701
1,2,3-Trichloropropane	mg/kg	0.0506	0.0490	3.38	20	101	WG379701
1,2,3-Trimethylbenzene	mg/kg	0.0497	0.0499	0.533	20	99	WG379701
1,2,4-Trichlorobenzene	mg/kg	0.0441	0.0443	0.493	20	88	WG379701
1,2,4-Trimethylbenzene	mg/kg	0.0473	0.0475	0.467	20	95	WG379701
1,2-Dibromo-3-Chloropropane	mg/kg	0.0493	0.0469	5.14	21	99	WG379701
1,2-Dibromoethane	mg/kg	0.0506	0.0489	3.49	20	101	WG379701
1,2-Dichlorobenzene	mg/kg	0.0489	0.0487	0.336	20	98	WG379701
1,2-Dichloroethane	mg/kg	0.0511	0.0509	0.226	20	102	WG379701
1,2-Dichloropropane	mg/kg	0.0496	0.0492	0.885	20	99	WG379701
1,3,5-Trimethylbenzene	mg/kg	0.0472	0.0484	2.42	20	94	WG379701
1,3-Dichlorobenzene	mg/kg	0.0433	0.0437	1.01	20	87	WG379701
1,3-Dichloropropane	mg/kg	0.0489	0.0485	0.992	20	98	WG379701
1,4-Dichlorobenzene	mg/kg	0.0446	0.0452	1.22	20	89	WG379701
2,2-Dichloropropane	mg/kg	0.0474	0.0475	0.136	20	95	WG379701
2-Butanone (MEK)	mg/kg	0.276	0.276	0.0384	25	110	WG379701
2-Chloroethyl vinyl ether	mg/kg	0.228	0.230	0.724	39	91	WG379701
2-Chlorotoluene	mg/kg	0.0467	0.0463	0.698	20	93	WG379701
4-Chlorotoluene	mg/kg	0.0459	0.0462	0.632	20	92	WG379701
4-Methyl-2-pentanone (MIBK)	mg/kg	0.289	0.287	0.631	23	116	WG379701
Acetone	mg/kg	0.253	0.253	0.0122	25	101	WG379701
Acrylonitrile	mg/kg	0.289	0.282	2.26	20	116	WG379701
Benzene	mg/kg	0.0467	0.0457	2.00	20	93	WG379701
Bromobenzene	mg/kg	0.0495	0.0487	1.51	20	99	WG379701
Bromodichloromethane	mg/kg	0.0546	0.0543	0.487	20	109	WG379701
Bromoform	mg/kg	0.0459	0.0451	1.81	20	92	WG379701
Bromomethane	mg/kg	0.0447	0.0434	2.92	20	89	WG379701
Carbon tetrachloride	mg/kg	0.0489	0.0473	3.35	20	98	WG379701
Chlorobenzene	mg/kg	0.0462	0.0456	1.42	20	92	WG379701
Chlorodibromomethane	mg/kg	0.0520	0.0507	2.58	20	104	WG379701
Chloroethane	mg/kg	0.0435	0.0429	1.40	20	87	WG379701
Chloroform	mg/kg	0.0493	0.0484	1.96	20	99	WG379701
Chloromethane	mg/kg	0.0414	0.0409	1.34	20	83	WG379701
cis-1,2-Dichloroethene	mg/kg	0.0475	0.0466	2.02	20	95	WG379701
cis-1,3-Dichloropropene	mg/kg	0.0555	0.0560	0.876	20	111	WG379701

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Analyte	Units	LCSD Res	Ref Res	RPD	Limit	%Rec	Batch
Di-isopropyl ether	mg/kg	0.0516	0.0509	1.20	20	103	WG379701
Dibromomethane	mg/kg	0.0504	0.0501	0.598	20	101	WG379701
Dichlorodifluoromethane	mg/kg	0.0410	0.0400	2.44	22	82	WG379701
Ethylbenzene	mg/kg	0.0476	0.0475	0.313	20	95	WG379701
Hexachloro-1,3-butadiene	mg/kg	0.0508	0.0505	0.460	20	102	WG379701
Isopropylbenzene	mg/kg	0.0481	0.0480	0.179	20	96	WG379701
Methyl tert-butyl ether	mg/kg	0.0524	0.0521	0.585	20	105	WG379701
Methylene Chloride	mg/kg	0.0426	0.0416	2.50	20	85	WG379701
n-Butylbenzene	mg/kg	0.0508	0.0516	1.58	20	102	WG379701
n-Propylbenzene	mg/kg	0.0471	0.0464	1.40	20	94	WG379701
Naphthalene	mg/kg	0.0490	0.0486	0.677	20	98	WG379701
p-Isopropyltoluene	mg/kg	0.0471	0.0474	0.692	20	94	WG379701
sec-Butylbenzene	mg/kg	0.0489	0.0487	0.447	20	98	WG379701
Styrene	mg/kg	0.0438	0.0435	0.743	20	88	WG379701
tert-Butylbenzene	mg/kg	0.0477	0.0470	1.48	20	95	WG379701
Tetrachloroethene	mg/kg	0.0431	0.0428	0.551	20	86	WG379701
Toluene	mg/kg	0.0467	0.0471	0.830	20	93	WG379701
trans-1,2-Dichloroethene	mg/kg	0.0406	0.0402	0.981	20	81	WG379701
trans-1,3-Dichloropropene	mg/kg	0.0565	0.0568	0.553	20	113	WG379701
Trichloroethene	mg/kg	0.0479	0.0475	0.801	20	96	WG379701
Trichlorofluoromethane	mg/kg	0.0431	0.0420	2.67	20	86	WG379701
Vinyl chloride	mg/kg	0.0435	0.0414	4.91	20	87	WG379701
Xylenes, Total	mg/kg	0.139	0.136	2.43	20	93	WG379701
1,2,4-Trichlorobenzene	ppm	0.203	0.200	1.77	24	61	WG379820
2,4,6-Trichlorophenol	ppm	0.226	0.217	3.91	20	68	WG379820
2,4-Dichlorophenol	ppm	0.213	0.212	0.664	21	64	WG379820
2,4-Dimethylphenol	ppm	0.311	0.310	0.142	23	93	WG379820
2,4-Dinitrophenol	ppm	0.174	0.178	2.30	45	52	WG379820
2,4-Dinitrotoluene	ppm	0.222	0.210	5.38	23	67	WG379820
2,6-Dinitrotoluene	ppm	0.220	0.203	8.04	22	66	WG379820
2-Chloronaphthalene	ppm	0.219	0.224	2.05	20	66	WG379820
2-Chlorophenol	ppm	0.233	0.236	1.26	24	70	WG379820
2-Nitrophenol	ppm	0.236	0.233	1.34	24	71	WG379820
3,3-Dichlorobenzidine	ppm	0.151	0.134	11.8	35	45	WG379820
4,6-Dinitro-2-methylphenol	ppm	0.200	0.199	0.731	33	60	WG379820
4-Bromophenyl-phenylether	ppm	0.214	0.213	0.412	23	64	WG379820
4-Chloro-3-methylphenol	ppm	0.213	0.218	2.35	23	64	WG379820
4-Chlorophenyl-phenylether	ppm	0.246	0.228	7.49	22	74	WG379820
4-Nitrophenol	ppm	0.216	0.211	2.61	36	65	WG379820
Acenaphthene	ppm	0.227	0.221	2.73	20	68	WG379820
Acenaphthylene	ppm	0.231	0.222	3.66	20	69	WG379820
Anthracene	ppm	0.228	0.225	1.66	21	69	WG379820
Benzidine	ppm	0.0478	0.0536	11.4	50	14	WG379820
Benzo(a)anthracene	ppm	0.226	0.224	0.787	21	68	WG379820
Benzo(a)pyrene	ppm	0.234	0.231	1.37	22	70	WG379820
Benzo(b)fluoranthene	ppm	0.242	0.230	5.00	33	73	WG379820
Benzo(g,h,i)perylene	ppm	0.215	0.218	1.24	29	65	WG379820
Benzo(k)fluoranthene	ppm	0.225	0.233	3.56	37	68	WG379820
Benzylbutyl phthalate	ppm	0.271	0.266	1.63	27	81	WG379820
Bis(2-chlorethoxy)methane	ppm	0.259	0.258	0.197	21	78	WG379820
Bis(2-chloroethyl)ether	ppm	0.268	0.269	0.291	28	80	WG379820
Bis(2-chloroisopropyl)ether	ppm	0.261	0.268	2.88	25	78	WG379820
Bis(2-ethylhexyl)phthalate	ppm	0.267	0.270	1.20	29	80	WG379820
Chrysene	ppm	0.226	0.229	1.05	23	68	WG379820
Di-n-butyl phthalate	ppm	0.258	0.257	0.393	22	77	WG379820
Di-n-octyl phthalate	ppm	0.236	0.244	3.07	26	71	WG379820
Dibenz(a,h)anthracene	ppm	0.215	0.218	1.38	28	65	WG379820
Diethyl phthalate	ppm	0.222	0.217	2.49	20	67	WG379820
Dimethyl phthalate	ppm	0.246	0.237	4.04	20	74	WG379820

Laboratory Control Sample Duplicate

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Fluoranthene	ppm	0.227	0.223	1.83	26	68	WG379820

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Analyte	Units	LCSD Res	Ref Res	RPD	Limit	%Rec	Batch
Fluorene	ppm	0.224	0.218	2.80	20	67	WG379820
Hexachloro-1,3-butadiene	ppm	0.216	0.215	0.288	25	65	WG379820
Hexachlorobenzene	ppm	0.228	0.217	4.70	24	68	WG379820
Hexachlorocyclopentadiene	ppm	0.236	0.244	3.53	40	71	WG379820
Hexachloroethane	ppm	0.216	0.225	4.02	27	65	WG379820
Indeno(1,2,3-cd)pyrene	ppm	0.216	0.220	2.01	28	65	WG379820
Isophorone	ppm	0.232	0.232	0.267	21	70	WG379820
n-Nitrosodi-n-propylamine	ppm	0.295	0.305	3.37	21	89	WG379820
n-Nitrosodimethylamine	ppm	0.257	0.253	1.64	35	77	WG379820
n-Nitrosodiphenylamine	ppm	0.245	0.239	2.68	22	74	WG379820
Naphthalene	ppm	0.213	0.217	1.61	23	64	WG379820
Nitrobenzene	ppm	0.230	0.236	2.64	23	69	WG379820
Pentachlorophenol	ppm	0.221	0.225	1.53	28	66	WG379820
Phenanthrene	ppm	0.221	0.224	1.39	20	66	WG379820
Phenol	ppm	0.252	0.252	0.198	22	76	WG379820
Pyrene	ppm	0.238	0.230	3.42	26	71	WG379820

Matrix Spike

Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/kg	1.94	0.326	.05	64.4	29-145	L361624-09	WG379701
1,1,1-Trichloroethane	mg/kg	2.44	0.646	.05	71.8	23-147	L361624-09	WG379701
1,1,2,2-Tetrachloroethane	mg/kg	2.60	0.157	.05	97.6	18-150	L361624-09	WG379701
1,1,2-Trichloroethane	mg/kg	7.00	4.65	.05	93.8	35-140	L361624-09	WG379701
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	2.17	0.00	.05	86.7	10-145	L361624-09	WG379701
1,1-Dichloroethane	mg/kg	2.44	0.0432	.05	96.0	24-148	L361624-09	WG379701
1,1-Dichloroethene	mg/kg	2.34	0.00	.05	93.7	10-149	L361624-09	WG379701
1,1-Dichloropropene	mg/kg	2.43	0.00	.05	97.2	10-141	L361624-09	WG379701
1,2,3-Trichlorobenzene	mg/kg	2.18	0.00	.05	87.2	10-129	L361624-09	WG379701
1,2,3-Trichloropropane	mg/kg	2.57	0.285	.05	91.6	30-148	L361624-09	WG379701
1,2,3-Trimethylbenzene	mg/kg	2.76	0.350	.05	96.5	10-137	L361624-09	WG379701
1,2,4-Trichlorobenzene	mg/kg	2.10	0.00	.05	84.1	10-119	L361624-09	WG379701
1,2,4-Trimethylbenzene	mg/kg	1.93	0.0668	.05	74.7	10-145	L361624-09	WG379701
1,2-Dibromo-3-Chloropropane	mg/kg	2.45	0.00	.05	97.8	19-145	L361624-09	WG379701
1,2-Dibromoethane	mg/kg	1.95	0.00	.05	78.1	24-145	L361624-09	WG379701
1,2-Dichlorobenzene	mg/kg	2.40	0.393	.05	80.3	12-130	L361624-09	WG379701
1,2-Dichloroethane	mg/kg	2.66	0.00	.05	106.	21-155	L361624-09	WG379701
1,2-Dichloropropane	mg/kg	3.73	1.80	.05	77.3	28-144	L361624-09	WG379701
1,3,5-Trimethylbenzene	mg/kg	2.62	0.874	.05	69.7	10-135	L361624-09	WG379701
1,3-Dichlorobenzene	mg/kg	1.69	0.0611	.05	65.2	10-129	L361624-09	WG379701
1,3-Dichloropropane	mg/kg	1.94	0.00	.05	77.6	31-137	L361624-09	WG379701
1,4-Dichlorobenzene	mg/kg	2.21	0.188	.05	80.9	10-121	L361624-09	WG379701
2,2-Dichloropropane	mg/kg	2.36	0.696	.05	66.7	18-144	L361624-09	WG379701
2-Butanone (MEK)	mg/kg	15.7	3.36	.25	98.4	21-143	L361624-09	WG379701
2-Chloroethyl vinyl ether	mg/kg	29.2	15.1	.25	112.	0-176	L361624-09	WG379701
2-Chlorotoluene	mg/kg	1.93	0.304	.05	65.0	10-132	L361624-09	WG379701
4-Chlorotoluene	mg/kg	1.85	0.00	.05	73.8	10-129	L361624-09	WG379701
4-Methyl-2-pentanone (MIBK)	mg/kg	13.3	0.412	.25	103.	31-151	L361624-09	WG379701
Acetone	mg/kg	11.5	1.02	.25	83.8	13-158	L361624-09	WG379701
Acrylonitrile	mg/kg	12.9	0.155	.25	102.	20-154	L361624-09	WG379701
Benzene	mg/kg	2.38	0.00	.05	95.3	16-143	L361624-09	WG379701
Bromobenzene	mg/kg	2.45	0.503	.05	77.8	14-135	L361624-09	WG379701
Bromodichloromethane	mg/kg	3.75	1.11	.05	105.	27-139	L361624-09	WG379701
Bromoform	mg/kg	1.78	0.00	.05	71.1	21-144	L361624-09	WG379701
Bromomethane	mg/kg	0.479	0.0160	.05	18.5	0-180	L361624-09	WG379701
Carbon tetrachloride	mg/kg	2.42	0.135	.05	91.6	12-149	L361624-09	WG379701
Chlorobenzene	mg/kg	1.94	0.0498	.05	75.5	17-134	L361624-09	WG379701
Chlorodibromomethane	mg/kg	2.06	0.183	.05	74.9	28-147	L361624-09	WG379701
Chloroethane	mg/kg	0.952	0.157	.05	31.8	0-172	L361624-09	WG379701

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Chloroform	mg/kg	2.62	0.379	.05	89.7	28-138	L361624-09	WG379701

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Chloromethane	mg/kg	2.06	0.00	.05	82.5	10-158	L361624-09	WG379701
cis-1,2-Dichloroethene	mg/kg	2.40	0.0533	.05	93.9	21-147	L361624-09	WG379701
cis-1,3-Dichloropropene	mg/kg	2.69	0.00	.05	108.	17-145	L361624-09	WG379701
Di-isopropyl ether	mg/kg	2.48	0.00	.05	99.2	31-153	L361624-09	WG379701
Dibromomethane	mg/kg	2.53	0.0718	.05	98.2	24-147	L361624-09	WG379701
Dichlorodifluoromethane	mg/kg	2.21	0.00	.05	88.2	0-192	L361624-09	WG379701
Ethylbenzene	mg/kg	5.92	4.50	.05	56.7	12-137	L361624-09	WG379701
Hexachloro-1,3-butadiene	mg/kg	2.38	0.00	.05	95.1	10-123	L361624-09	WG379701
Isopropylbenzene	mg/kg	3.15	1.27	.05	75.2	14-134	L361624-09	WG379701
Methyl tert-butyl ether	mg/kg	3.01	0.00	.05	120.	21-157	L361624-09	WG379701
Methylene Chloride	mg/kg	2.13	0.0361	.05	83.6	12-149	L361624-09	WG379701
n-Butylbenzene	mg/kg	5.03	2.78	.05	90.1	10-130	L361624-09	WG379701
n-Propylbenzene	mg/kg	5.70	4.28	.05	56.7	10-130	L361624-09	WG379701
Naphthalene	mg/kg	5.01	2.90	.05	84.3	0-146	L361624-09	WG379701
p-Isopropyltoluene	mg/kg	2.50	0.485	.05	80.6	10-131	L361624-09	WG379701
sec-Butylbenzene	mg/kg	2.47	0.604	.05	74.6	10-134	L361624-09	WG379701
Styrene	mg/kg	1.80	0.205	.05	63.8	10-140	L361624-09	WG379701
tert-Butylbenzene	mg/kg	1.98	0.0582	.05	76.8	11-137	L361624-09	WG379701
Tetrachloroethene	mg/kg	1.71	0.0114	.05	68.1	10-131	L361624-09	WG379701
Toluene	mg/kg	2.38	0.00	.05	95.4	12-136	L361624-09	WG379701
trans-1,2-Dichloroethene	mg/kg	2.27	0.397	.05	74.7	10-143	L361624-09	WG379701
trans-1,3-Dichloropropene	mg/kg	2.73	0.00	.05	109.	16-147	L361624-09	WG379701
Trichloroethene	mg/kg	2.55	0.279	.05	90.7	10-155	L361624-09	WG379701
Trichlorofluoromethane	mg/kg	2.12	0.00	.05	85.0	10-154	L361624-09	WG379701
Vinyl chloride	mg/kg	1.99	0.00	.05	79.4	10-159	L361624-09	WG379701
Xylenes, Total	mg/kg	5.67	0.00	.15	75.6	10-138	L361624-09	WG379701
1,2,4-Trichlorobenzene	ppm	0.251	0.00	.333	75.5	37-104	L361371-15	WG379820
2,4,6-Trichlorophenol	ppm	0.255	0.00	.333	76.5	27-128	L361371-15	WG379820
2,4-Dichlorophenol	ppm	0.257	0.00	.333	77.3	39-116	L361371-15	WG379820
2,4-Dimethylphenol	ppm	0.381	0.00	.333	114.	50-119	L361371-15	WG379820
2,4-Dinitrophenol	ppm	0.0876	0.00	.333	26.3	10-123	L361371-15	WG379820
2,4-Dinitrotoluene	ppm	0.214	0.00	.333	64.4	52-121	L361371-15	WG379820
2,6-Dinitrotoluene	ppm	0.223	0.00	.333	66.8	53-114	L361371-15	WG379820
2-Chloronaphthalene	ppm	0.260	0.00	.333	78.0	52-101	L361371-15	WG379820
2-Chlorophenol	ppm	0.278	0.00	.333	83.5	41-112	L361371-15	WG379820
2-Nitrophenol	ppm	0.238	0.00	.333	71.6	23-117	L361371-15	WG379820
3,3-Dichlorobenzidine	ppm	0.159	0.00	.333	47.7	10-133	L361371-15	WG379820
4,6-Dinitro-2-methylphenol	ppm	0.165	0.00	.333	49.4	10-124	L361371-15	WG379820
4-Bromophenyl-phenylether	ppm	0.231	0.00	.333	69.5	37-103	L361371-15	WG379820
4-Chloro-3-methylphenol	ppm	0.258	0.00	.333	77.6	52-119	L361371-15	WG379820
4-Chlorophenyl-phenylether	ppm	0.277	0.00	.333	83.1	53-105	L361371-15	WG379820
4-Nitrophenol	ppm	0.208	0.00	.333	62.4	15-140	L361371-15	WG379820
Acenaphthene	ppm	0.257	0.00	.333	77.1	52-102	L361371-15	WG379820
Acenaphthylene	ppm	0.264	0.00	.333	79.2	54-103	L361371-15	WG379820
Anthracene	ppm	0.244	0.00	.333	73.4	55-114	L361371-15	WG379820
Benzidine	ppm	0.0092	0.00	.333	2.7	0-45	L361371-15	WG379820
Benzo(a)anthracene	ppm	0.250	0.00	.333	75.1	37-124	L361371-15	WG379820
Benzo(a)pyrene	ppm	0.231	0.00	.333	69.3	44-129	L361371-15	WG379820
Benzo(b)fluoranthene	ppm	0.248	0.00	.333	74.4	28-135	L361371-15	WG379820
Benzo(g,h,i)perylene	ppm	0.225	0.00	.333	67.4	25-123	L361371-15	WG379820
Benzo(k)fluoranthene	ppm	0.217	0.00	.333	65.3	41-116	L361371-15	WG379820
Benzylbutyl phthalate	ppm	0.299	0.00	.333	89.7	45-143	L361371-15	WG379820
Bis(2-chlorethoxy)methane	ppm	0.299	0.00	.333	89.6	48-108	L361371-15	WG379820
Bis(2-chloroethyl)ether	ppm	0.311	0.00	.333	93.4	36-115	L361371-15	WG379820
Bis(2-chloroisopropyl)ether	ppm	0.313	0.00	.333	94.0	44-109	L361371-15	WG379820
Bis(2-ethylhexyl)phthalate	ppm	0.300	0.00	.333	90.0	40-128	L361371-15	WG379820
Chrysene	ppm	0.236	0.00	.333	70.7	39-119	L361371-15	WG379820
Di-n-butyl phthalate	ppm	0.283	0.00	.333	84.8	49-121	L361371-15	WG379820

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L361687

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Di-n-octyl phthalate	ppm	0.296	0.00	.333	88.8	40-132	L361371-15	WG379820

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Dibenz(a,h)anthracene	ppm	0.233	0.00	.333	70.1	29-123	L361371-15	WG379820
Diethyl phthalate	ppm	0.263	0.00	.333	79.1	51-113	L361371-15	WG379820
Dimethyl phthalate	ppm	0.282	0.00	.333	84.8	54-108	L361371-15	WG379820
Fluoranthene	ppm	0.249	0.00	.333	74.7	23-143	L361371-15	WG379820
Fluorene	ppm	0.249	0.00	.333	74.9	53-107	L361371-15	WG379820
Hexachloro-1,3-butadiene	ppm	0.259	0.00	.333	77.7	39-113	L361371-15	WG379820
Hexachlorobenzene	ppm	0.239	0.00	.333	71.8	49-108	L361371-15	WG379820
Hexachlorocyclopentadiene	ppm	0.205	0.00	.333	61.5	10-131	L361371-15	WG379820
Hexachloroethane	ppm	0.259	0.00	.333	77.8	25-118	L361371-15	WG379820
Indeno(1,2,3-cd)pyrene	ppm	0.231	0.00	.333	69.3	28-125	L361371-15	WG379820
Isophorone	ppm	0.265	0.00	.333	79.5	51-115	L361371-15	WG379820
n-Nitrosodi-n-propylamine	ppm	0.342	0.00	.333	103.	54-110	L361371-15	WG379820
n-Nitrosodimethylamine	ppm	0.277	0.00	.333	83.1	20-116	L361371-15	WG379820
n-Nitrosodiphenylamine	ppm	0.265	0.00	.333	79.7	54-138	L361371-15	WG379820
Naphthalene	ppm	0.255	0.00	.333	76.5	41-100	L361371-15	WG379820
Nitrobenzene	ppm	0.242	0.00	.333	72.6	40-102	L361371-15	WG379820
Pentachlorophenol	ppm	0.278	0.00	.333	83.6	10-146	L361371-15	WG379820
Phenanthrene	ppm	0.251	0.00	.333	75.2	37-125	L361371-15	WG379820
Phenol	ppm	0.290	0.00	.333	87.2	52-111	L361371-15	WG379820
Pyrene	ppm	0.246	0.00	.333	73.9	22-151	L361371-15	WG379820
Extractable Petroleum Hydrocarbon	mg/kg	0.00	8.70	60	0.0	50-100	L361688-02	WG380041
Extractable Petroleum Hydrocarbon	mg/kg	0.00	8.70	60	0.0	50-100	L361688-02	WG380041
C5-C8 Aliphatics	mg/kg	27.6	0.00	.75	87.5	70-130	L361176-08	WG380350
C9-C10 Aromatics	mg/kg	4.83	0.00	.1	115.	70-130	L361176-08	WG380350
C9-C12 Aliphatics	mg/kg	22.2	0.00	.55	96.2	70-130	L361176-08	WG380350
Volatile Petroleum Hydrocarbons	mg/kg	45.0	0.00	.05	2140	70-130	L361176-08	WG380350

Analyte	Units	Matrix Spike Duplicate MSD Res	Ref Res	RPD	Limit	%Rec	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/kg	1.92	1.94	0.810	31	63.8	L361624-09	WG379701
1,1,1-Trichloroethane	mg/kg	2.45	2.44	0.284	32	72.1	L361624-09	WG379701
1,1,2,2-Tetrachloroethane	mg/kg	2.30	2.60	12.4	33	85.5	L361624-09	WG379701
1,1,2-Trichloroethane	mg/kg	7.12	7.00	1.71	29	98.6	L361624-09	WG379701
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	2.18	2.17	0.393	35	87.0	L361624-09	WG379701
1,1-Dichloroethane	mg/kg	2.48	2.44	1.64	31	97.6	L361624-09	WG379701
1,1-Dichloroethene	mg/kg	2.43	2.34	3.61	34	97.2	L361624-09	WG379701
1,1-Dichloropropene	mg/kg	2.46	2.43	1.18	34	98.4	L361624-09	WG379701
1,2,3-Trichlorobenzene	mg/kg	2.28	2.18	4.30	43	91.1	L361624-09	WG379701
1,2,3-Trichloropropane	mg/kg	2.22	2.57	14.9	32	77.3	L361624-09	WG379701
1,2,3-Trimethylbenzene	mg/kg	2.80	2.76	1.47	36	98.2	L361624-09	WG379701
1,2,4-Trichlorobenzene	mg/kg	2.20	2.10	4.50	44	88.0	L361624-09	WG379701
1,2,4-Trimethylbenzene	mg/kg	1.93	1.93	0.130	41	74.6	L361624-09	WG379701
1,2-Dibromo-3-Chloropropane	mg/kg	2.51	2.45	2.58	35	100.	L361624-09	WG379701
1,2-Dibromoethane	mg/kg	1.93	1.95	1.02	31	77.3	L361624-09	WG379701
1,2-Dichlorobenzene	mg/kg	2.45	2.40	1.92	35	82.1	L361624-09	WG379701
1,2-Dichloroethane	mg/kg	2.65	2.66	0.390	29	106.	L361624-09	WG379701
1,2-Dichloropropane	mg/kg	3.74	3.73	0.375	30	77.8	L361624-09	WG379701
1,3,5-Trimethylbenzene	mg/kg	2.61	2.62	0.0444	39	69.6	L361624-09	WG379701
1,3-Dichlorobenzene	mg/kg	1.70	1.69	0.398	38	65.4	L361624-09	WG379701
1,3-Dichloropropane	mg/kg	1.90	1.94	2.03	29	76.1	L361624-09	WG379701
1,4-Dichlorobenzene	mg/kg	2.24	2.21	1.20	36	82.0	L361624-09	WG379701
2,2-Dichloropropane	mg/kg	2.39	2.36	1.24	32	67.8	L361624-09	WG379701
2-Butanone (MEK)	mg/kg	16.5	15.7	5.07	37	105.	L361624-09	WG379701
2-Chloroethyl vinyl ether	mg/kg	32.5	29.2	10.7	50	139.	L361624-09	WG379701
2-Chlorotoluene	mg/kg	1.89	1.93	1.84	37	63.6	L361624-09	WG379701
4-Chlorotoluene	mg/kg	1.90	1.85	2.82	38	76.0	L361624-09	WG379701

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Quality Assurance Report
Level II

L361687

September 03, 2008

Analyte	Units	MSD Res	Ref Res	RPD	Limit	%Rec	Ref Samp	Batch
4-Methyl-2-pentanone (MIBK)	mg/kg	13.7	13.3	2.45	36	106.	L361624-09	WG379701

Matrix Spike Duplicate

Analyte	Units	MSD Res	Ref Res	RPD	Limit	%Rec	Ref Samp	Batch
Acetone	mg/kg	11.9	11.5	3.46	34	87.0	L361624-09	WG379701
Acrylonitrile	mg/kg	13.0	12.9	1.05	35	103.	L361624-09	WG379701
Benzene	mg/kg	2.42	2.38	1.71	31	97.0	L361624-09	WG379701
Bromobenzene	mg/kg	2.39	2.45	2.30	39	75.5	L361624-09	WG379701
Bromodichloromethane	mg/kg	3.82	3.75	1.82	30	108.	L361624-09	WG379701
Bromoform	mg/kg	1.75	1.78	1.44	34	70.1	L361624-09	WG379701
Bromomethane	mg/kg	0.394	0.479	19.6	41	15.1	L361624-09	WG379701
Carbon tetrachloride	mg/kg	2.47	2.42	1.82	34	93.3	L361624-09	WG379701
Chlorobenzene	mg/kg	1.93	1.94	0.486	34	75.1	L361624-09	WG379701
Chlorodibromomethane	mg/kg	2.04	2.06	0.757	32	74.3	L361624-09	WG379701
Chloroethane	mg/kg	0.797	0.952	17.8	38	25.6	L361624-09	WG379701
Chloroform	mg/kg	2.42	2.62	7.83	30	81.8	L361624-09	WG379701
Chloromethane	mg/kg	2.10	2.06	1.69	35	83.9	L361624-09	WG379701
cis-1,2-Dichloroethene	mg/kg	2.42	2.40	0.962	31	94.9	L361624-09	WG379701
cis-1,3-Dichloropropene	mg/kg	2.69	2.69	0.0159	32	108.	L361624-09	WG379701
Di-isopropyl ether	mg/kg	2.48	2.48	0.0411	29	99.2	L361624-09	WG379701
Dibromomethane	mg/kg	2.53	2.53	0.0559	30	98.2	L361624-09	WG379701
Dichlorodifluoromethane	mg/kg	2.25	2.21	2.10	38	90.1	L361624-09	WG379701
Ethylbenzene	mg/kg	5.80	5.92	2.07	36	51.9	L361624-09	WG379701
Hexachloro-1,3-butadiene	mg/kg	2.48	2.38	4.01	50	99.0	L361624-09	WG379701
Isopropylbenzene	mg/kg	3.08	3.15	2.21	37	72.4	L361624-09	WG379701
Methyl tert-butyl ether	mg/kg	3.13	3.01	3.99	31	125.	L361624-09	WG379701
Methylene Chloride	mg/kg	2.16	2.13	1.62	31	85.0	L361624-09	WG379701
n-Butylbenzene	mg/kg	5.11	5.03	1.51	48	93.1	L361624-09	WG379701
n-Propylbenzene	mg/kg	5.64	5.70	0.988	40	54.4	L361624-09	WG379701
Naphthalene	mg/kg	5.19	5.01	3.60	43	91.6	L361624-09	WG379701
p-Isopropyltoluene	mg/kg	2.49	2.50	0.463	43	80.2	L361624-09	WG379701
sec-Butylbenzene	mg/kg	2.44	2.47	1.16	43	73.5	L361624-09	WG379701
Styrene	mg/kg	1.79	1.80	0.775	35	63.2	L361624-09	WG379701
tert-Butylbenzene	mg/kg	1.93	1.98	2.22	39	75.0	L361624-09	WG379701
Tetrachloroethene	mg/kg	1.72	1.71	0.274	35	68.3	L361624-09	WG379701
Toluene	mg/kg	2.44	2.38	2.21	32	97.5	L361624-09	WG379701
trans-1,2-Dichloroethene	mg/kg	2.26	2.27	0.430	33	74.3	L361624-09	WG379701
trans-1,3-Dichloropropene	mg/kg	2.72	2.73	0.409	32	109.	L361624-09	WG379701
Trichloroethene	mg/kg	2.69	2.55	5.49	33	96.5	L361624-09	WG379701
Trichlorofluoromethane	mg/kg	2.12	2.12	0.322	32	84.7	L361624-09	WG379701
Vinyl chloride	mg/kg	2.07	1.99	3.91	36	82.6	L361624-09	WG379701
Xylenes, Total	mg/kg	5.62	5.67	0.908	36	75.0	L361624-09	WG379701
1,2,4-Trichlorobenzene	ppm	0.243	0.251	3.34	26	73.0	L361371-15	WG379820
2,4,6-Trichlorophenol	ppm	0.260	0.255	2.19	31	78.2	L361371-15	WG379820
2,4-Dichlorophenol	ppm	0.257	0.257	0.257	23	77.1	L361371-15	WG379820
2,4-Dimethylphenol	ppm	0.375	0.381	1.62	27	113.	L361371-15	WG379820
2,4-Dinitrophenol	ppm	0.102	0.0876	15.1	42	30.6	L361371-15	WG379820
2,4-Dinitrotoluene	ppm	0.254	0.214	16.9	23	76.2	L361371-15	WG379820
2,6-Dinitrotoluene	ppm	0.252	0.223	12.3	22	75.6	L361371-15	WG379820
2-Chloronaphthalene	ppm	0.257	0.260	1.00	20	77.2	L361371-15	WG379820
2-Chlorophenol	ppm	0.262	0.278	6.05	27	78.6	L361371-15	WG379820
2-Nitrophenol	ppm	0.247	0.238	3.57	31	74.2	L361371-15	WG379820
3,3-Dichlorobenzidine	ppm	0.203	0.159	24.4	41	60.9	L361371-15	WG379820
4,6-Dinitro-2-methylphenol	ppm	0.190	0.165	14.5	38	57.2	L361371-15	WG379820
4-Bromophenyl-phenylether	ppm	0.234	0.231	1.07	23	70.2	L361371-15	WG379820
4-Chloro-3-methylphenol	ppm	0.268	0.258	3.50	24	80.4	L361371-15	WG379820
4-Chlorophenyl-phenylether	ppm	0.277	0.277	0.224	20	83.3	L361371-15	WG379820
4-Nitrophenol	ppm	0.247	0.208	17.3	40	74.2	L361371-15	WG379820
Acenaphthene	ppm	0.256	0.257	0.218	23	76.9	L361371-15	WG379820
Acenaphthylene	ppm	0.263	0.264	0.133	22	79.1	L361371-15	WG379820
Anthracene	ppm	0.272	0.244	10.6	21	81.6	L361371-15	WG379820
Benzidine	ppm	0.0108	0.0092	14.8	50	3.24	L361371-15	WG379820

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Analyte	Units	MSD Res	Ref Res	RPD	Limit	%Rec	Ref Samp	Batch
Benzo(a)anthracene	ppm	0.276	0.250	9.76	33	82.9	L361371-15	WG379820
Benzo(a)pyrene	ppm	0.260	0.231	12.1	27	78.2	L361371-15	WG379820
Benzo(b)fluoranthene	ppm	0.297	0.248	18.0	33	89.1	L361371-15	WG379820
Benzo(g,h,i)perylene	ppm	0.246	0.225	9.20	35	73.9	L361371-15	WG379820
Benzo(k)fluoranthene	ppm	0.232	0.217	6.68	34	69.8	L361371-15	WG379820
Benzylbutyl phthalate	ppm	0.330	0.299	9.88	39	99.0	L361371-15	WG379820
Bis(2-chlorethoxy)methane	ppm	0.298	0.299	0.0838	23	89.6	L361371-15	WG379820
Bis(2-chloroethyl)ether	ppm	0.289	0.311	7.37	30	86.8	L361371-15	WG379820
Bis(2-chloroisopropyl)ether	ppm	0.307	0.313	2.03	27	92.1	L361371-15	WG379820
Bis(2-ethylhexyl)phthalate	ppm	0.318	0.300	5.87	34	95.4	L361371-15	WG379820
Chrysene	ppm	0.280	0.236	17.1	31	84.0	L361371-15	WG379820
Di-n-butyl phthalate	ppm	0.299	0.283	5.66	22	89.8	L361371-15	WG379820
Di-n-octyl phthalate	ppm	0.305	0.296	3.00	27	91.5	L361371-15	WG379820
Dibenz(a,h)anthracene	ppm	0.258	0.233	9.97	30	77.5	L361371-15	WG379820
Diethyl phthalate	ppm	0.274	0.263	3.76	21	82.1	L361371-15	WG379820
Dimethyl phthalate	ppm	0.286	0.282	1.40	23	86.0	L361371-15	WG379820
Fluoranthene	ppm	0.280	0.249	11.9	29	84.1	L361371-15	WG379820
Fluorene	ppm	0.256	0.249	2.68	22	76.9	L361371-15	WG379820
Hexachloro-1,3-butadiene	ppm	0.253	0.259	2.05	26	76.1	L361371-15	WG379820
Hexachlorobenzene	ppm	0.238	0.239	0.567	27	71.4	L361371-15	WG379820
Hexachlorocyclopentadiene	ppm	0.177	0.205	14.3	39	53.3	L361371-15	WG379820
Hexachloroethane	ppm	0.253	0.259	2.59	35	75.8	L361371-15	WG379820
Indeno(1,2,3-cd)pyrene	ppm	0.254	0.231	9.44	32	76.2	L361371-15	WG379820
Isophorone	ppm	0.259	0.265	2.08	22	77.9	L361371-15	WG379820
n-Nitrosodi-n-propylamine	ppm	0.323	0.342	5.49	23	97.1	L361371-15	WG379820
n-Nitrosodimethylamine	ppm	0.284	0.277	2.46	38	85.2	L361371-15	WG379820
n-Nitrosodiphenylamine	ppm	0.283	0.265	6.42	26	85.0	L361371-15	WG379820
Naphthalene	ppm	0.255	0.255	0.0903	26	76.6	L361371-15	WG379820
Nitrobenzene	ppm	0.256	0.242	5.75	24	76.9	L361371-15	WG379820
Pentachlorophenol	ppm	0.273	0.278	2.03	35	81.9	L361371-15	WG379820
Phenanthrene	ppm	0.260	0.251	3.67	27	78.1	L361371-15	WG379820
Phenol	ppm	0.286	0.290	1.38	22	86.0	L361371-15	WG379820
Pyrene	ppm	0.275	0.246	10.9	38	82.5	L361371-15	WG379820
C11-C22 Aromatics	mg/kg	9.01	10.4	14.7	0	901.		WG380041
C19-C36 Aliphatics	mg/kg	11.9	8.29	35.9	0	1190		WG380041
C9-C18 Aliphatics	mg/kg	4.07	3.74	8.54	0	407.		WG380041
Extractable Petroleum Hydrocarbon	mg/kg	0.00	0.00	0.00	20	0.00	L361688-02	WG380041
Extractable Petroleum Hydrocarbon	mg/kg	0.00	0.00	0.00	20	0.00	L361688-02	WG380041
C5-C8 Aliphatics	mg/kg	29.5	27.6	6.69	25	93.6	L361176-08	WG380350
C9-C10 Aromatics	mg/kg	4.93	4.83	2.00	25	117.	L361176-08	WG380350
C9-C12 Aliphatics	mg/kg	22.3	22.2	0.559	25	96.8	L361176-08	WG380350
Volatile Petroleum Hydrocarbons	mg/kg	46.9	45.0	4.21	0	2230	L361176-08	WG380350

Batch number /Run number / Sample number cross reference

WG379701: R453025: L361687-01
WG379820: R454065: L361687-01
WG380336: R454756: L361687-01
WG380350: R455725: L361687-01
WG380041: R455744: L361687-01

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

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Quality Assurance Report
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L361687

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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.

Chain of Custody
Page ___ of ___

Prepared by:

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Company Name/Address: SITECH CONSULTING PC, 9000 BREELAND WAY, RALEIGH NC 27613	Alternate billing information:
Report to: S. R. LIST	Email to: slist@sitechenv.com
Project Description: 832 HUGHES	City/State Collected: APEX NC
Phone: 919 8700762 FAX: 8700473	Client Project #: 1252
ESC Key:	
Collected by: S. R. LIST	Site/Facility ID#:
P.O.#:	
Collected by (signature): [signature] Immediately Packed on Ice N___ Y ✓	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

Analysis/Container/Preservative: 8260 (5035 Prep); IPE MTBE; VPH; 6010 + Metals (16); EPH

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	8260 (5035 Prep)	IPE MTBE	VPH	6010 + Metals (16)	EPH			Remarks/Contaminant	Sample # (lab only)
S4.1		SOIL	6	8/22		5	X	X	X	X	X				L361657-21

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other__________

pH __________ Temp __________

Flow __________ Other __________

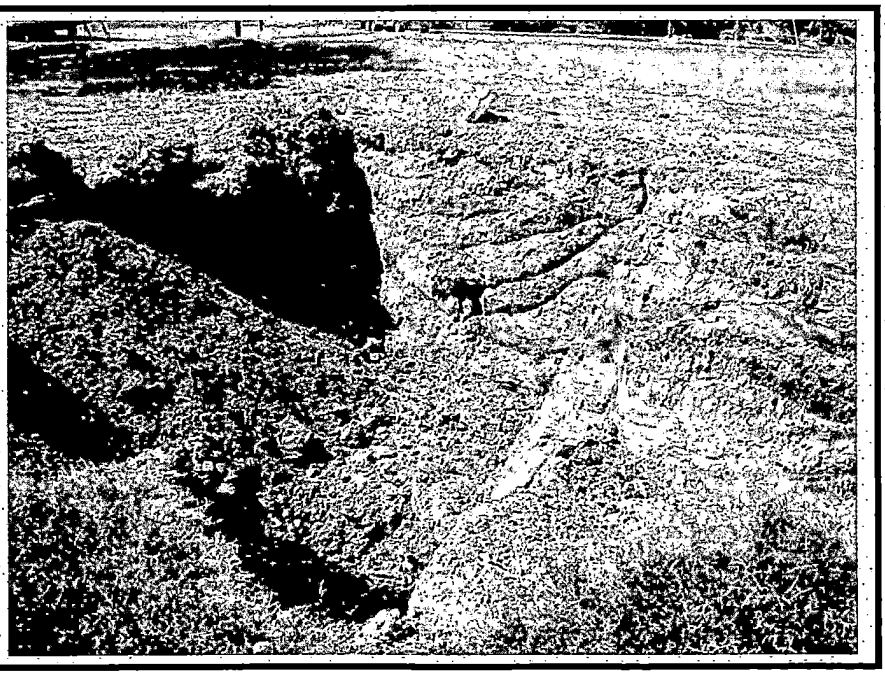
Remarks:

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ SWA	Condition: (lab use only) OK
[signature]	8/22/08	4:30	[signature]		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.3° / Bottles Received: 5	CoC Seals Intact: ___Y ___N ✓NA
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) [signature]	Date: 8-23-08 / Time: 0745	pH Checked: / NCF:

EXHIBIT G

Photographs

Photograph 1:
A view of the excavation at 900 S. Hughes and relic residential debris.

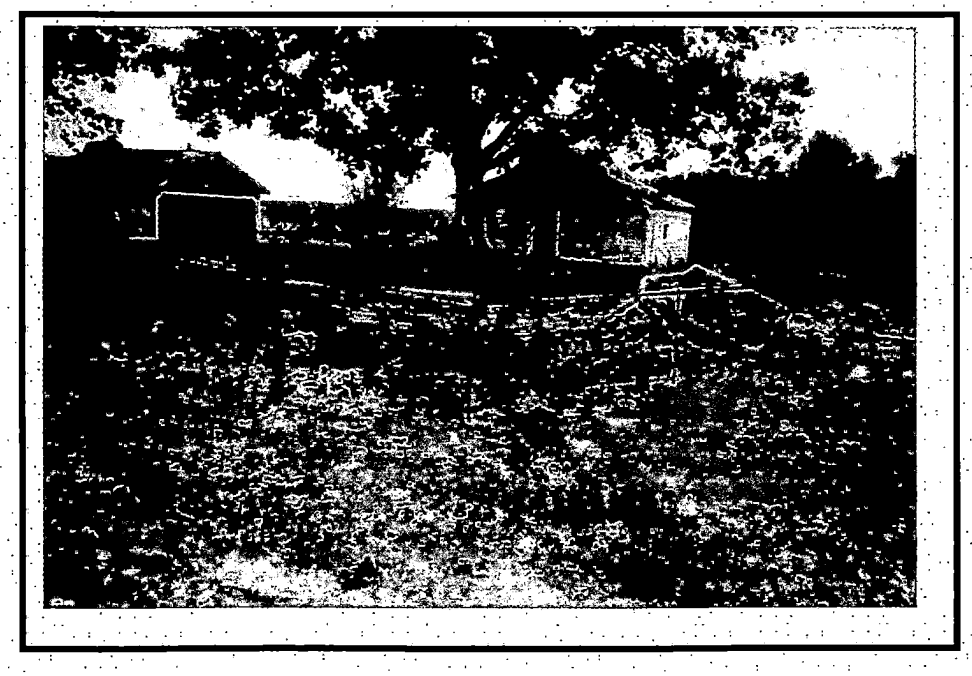


Photograph 2:
A view of the excavation at 900 Hughes being expanded.

Photograph 3:
A view of the relic septic drain line under the old path to the residence. Staining indicates the preferential pathway of contaminants.

Photograph 4:
A view of the excavation nearing the vadose zone.

Photograph 5:
A view of the final limits of the initial excavation after 24-hours and groundwater intrusion.



Photograph 6:
A view of the barricade placed after initial excavation activities at 900 S. Hughes.

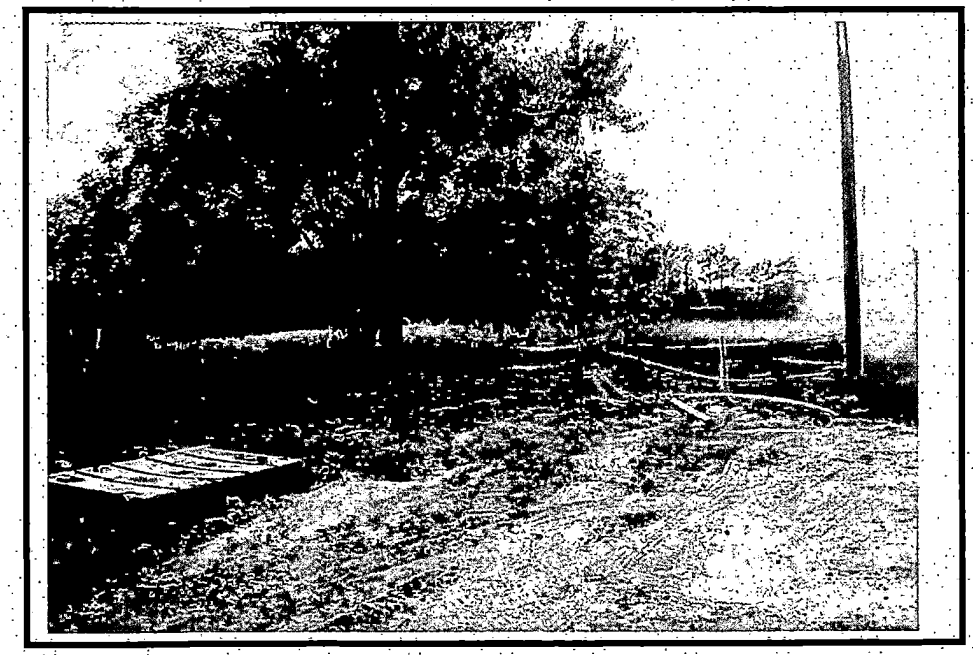
Photograph 7:
A view of the final excavation limits. Note Groundwater appears elevated due to a localized 4-inch rainfall from a Hurricane.

Photograph 8:
A view of the initial excavation area at 832 Hughes.

Photograph 9:
A view of the initial phase of the excavation at 832 Hughes.

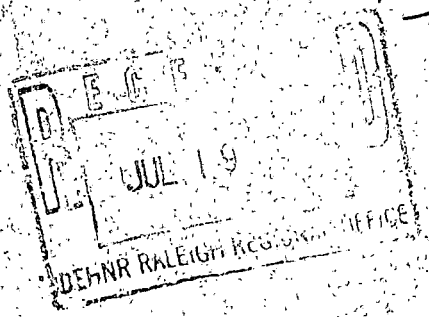
Photograph 10:
A view of the excavation being widened, note the proximity to the power pole for the construction trailer at 832 Hughes.

Photograph 11:
A view of the final limits of the initial excavation after 24-hours and groundwater intrusion.



Photograph 12:
A view of the final excavation limit and barricade.

Mallory



EAST COAST
Environmental, P.A.

INITIAL ABATEMENT MEASURES REPORT (20-DAY REPORT) PREPARED IN RESPONSE TO A LEAKING UNDERGROUND STORAGE TANK FORMERLY LOCATED AT 900 S. HUGHES STREET RALEIGH, WAKE COUNTY, NORTH CAROLINA GROUNDWATER INCIDENT NUMBER: NOT ASSIGNED

July 16, 2005

Responsible Party:
Mildred Rigsbee
900 S. Hughes Street
Apex, North Carolina 27502
(919) 362-6278

Current Property Owner:
Mildred Rigsbee
900 S. Hughes Street
Apex, North Carolina 27502
(919) 362-6278

Consultant:
East Coast Environmental, P.A.
3709 Junction Blvd.
Raleigh, North Carolina 27603
(919) 772-0268

Release Discovery Date: June 1, 2005
Cause of Release: Leaking Home Heating Oil UST System
UST Size and Contents: (1) 270-Gallon Heating Oil UST
Latitude: 35° 43.028, Longitude: 78° 50.873
35° 43' 1.68" 78° 50' 52.38"
35.717133 -78.848439

Initial Abatement Measures Report (20-day Report)

A. Site Identification

DATE OF REPORT: July 16, 2005
Facility I.D.: N/A UST Incident Number (if known): Unknown
Site Name: 900 S. Hughes Street
Site Location: 900 S. Hughes Street
Nearest City/Town: Apex County: Wake

UST Owner: Mildred Rigsbee
Address: 900 S. Hughes Street, Apex, NC 27502 Phone: (919) 362-6278

UST Operator: Mildred Rigsbee
Address: 900 S. Hughes Street, Apex, NC 27502 Phone: (919) 362-6278

Property Owner: Mildred Rigsbee
Address: 900 S. Hughes Street, Raleigh, NC 27502 Phone: (919) 362-6278

Property Occupants: Mildred Rigsbee
Address: 900 S. Hughes Street, Apex, NC 27502 Phone: (919) 362-6278

Consultant/Contractor: East Coast Environmental, P.A.
Address: 3709 Junction Blvd., Raleigh, NC 27603 Phone: (919) 772-0268

Release Information
Date Discovered: June 17, 2005
Latitude: 35° 42.028 **Longitude**: 78° 50.873
Estimated Quantity of Release: unknown
Cause of Release: Leaking UST
Source of Release (e.g., Piping/UST): 270-gallon UST
Sizes and contents of UST system(s) from which the release occurred: (1) 2700-gallon heating oil UST

I, Thomas R. Will a Licensed Geologist for East Coast Environmental, P.A. do certify that the information contained in this report is correct and accurate to the best of my knowledge.

NORTH CAROLINA LICENSED SEAL 1164 GEOLOGIST THOMAS ROBERT WILL

(Please Affix Seal and Signature)

Site History

The subject property, (hereinafter referred to as the "Site") is located at 900 S. Hughes Street, Apex, Wake County, North Carolina (See **Section A, Figure 1** for Site location). The Site currently contains a single family home.

The subject Underground Storage Tank (UST) was 270-gallons in capacity and installed in order to store heating oil for use as fuel for the home heating system. See **Section A, Figure 2** for former location of UST in relation to the Site. The release was discovered during UST removal activities completed on June 1, 2005 when a soil sample collected from immediately underneath the subject tank was subsequently analyzed for Total Petroleum Hydrocarbons (TPH) by EPA Method 3350 and found to contain high boiling point TPH at a level of 10,000-mg/kg. After removal, the subject UST was inspected for signs of structural failure. It was found to be in poor condition with numerous holes across the bottom.

In response, Creekside Land Development of Zebulon, NC mobilized to the Site on June 17, 2005 in order to excavate and dispose of approximately 50.4 tons of petroleum contaminated soil from around the former UST area. The final limits of this excavation measured approximately 12-feet in length by 10-feet in width by 11-feet in depth. See **Section A, Figure 2** for approximate final dimensions of petroleum contaminated soils excavation in relation to the Site.

At the conclusion of UST and petroleum contaminated soil removal activities, a series of soil samples were reportedly collected from the final limits of the excavations, the analytical results of which are discussed below.

The remaining sections of this report have been compiled to achieve compliance with 15A NCAC 2N .0703.

15A NCAC 2N .0703 Initial Abatement Measures and Site Check

(1) Remove as much of the regulated substance from the UST system as is necessary to prevent further release to the environment.

The subject UST was closed by removal on June 1, 2005. All liquids were removed from the tank by Creekside prior to beginning excavation removal activities. See **Section A, Figure 2** for former UST location.

(2) Visually inspect any aboveground releases or exposed below ground releases and prevent further migration of the released substance into surrounding soils and groundwater.

By removing the primary contaminant sources (the UST and its liquid contents), further migration of the released oil into the underlying soils was accomplished. Noticeably contaminated soils were observed in the excavation formed after removal of the tank. In order to address a secondary source of potential groundwater contamination, approximately 50.4 tons of petroleum contaminated soils were subsequently removed from the sides and bottom of the former excavation area on June 17, 2005. The soils were transported to Soilworks of Zebulon, NC for treatment and disposal. See **Section B** for soils disposal certificate as issued by Soilworks of Zebulon, NC.

(3) Continue to monitor and mitigate any additional fire and safety hazards posed by vapors or free product that have migrated from UST excavation zone and entered into subsurface structures.

No subsurface structures were noted in close proximity to the former UST area.

(4) Remedy hazards posed by contaminated soils that are excavated or exposed as a result of release confirmation, site investigation, abatement or corrective action activities. If these remedies include treatment or disposal of soils, the owner and operator must comply with applicable state and local requirements.

Approximately 50.4 tons of petroleum contaminated soils were removed as part of the UST closure and soil excavation activities completed during June 17, 2005 and loaded onto trucks for transport to Soilworks of Zebulon for treatment and disposal. See **Section B** for Soil Disposal Certificate.

(5) Measure for the presence of a release where contamination is most likely to be present at the UST site.

At the conclusion of petroleum contaminated soil removal activities, ECE collected a series of five soil samples (one each from the four sidewalls and one from the excavation bottom) for laboratory analysis by EPA Methods 8260 and 8270 and the Massachusetts Department of Environmental Protection (MADEP) Volatile Petroleum Hydrocarbons (VPH) and Extractable Petroleum Hydrocarbon (EPH) analyses. The sidewall samples were collected at a depth of approximately 6-feet below land surface while the bottom sample was collected from approximately 11-feet below land surface. The sample locations are indicated in **Figure 2**.

Soil Sample Results

The analytical results for EPA Method 8260 indicated the presence of numerous targeted parameters at levels in excess of their Soil to Groundwater Maximum Soil Contaminant Concentrations as set forth in the *"Guidelines for Assessment and Corrective Action"* prepared by the North Carolina Underground Storage Tank Section effective July 1, 2001 (*The Guidelines)* in all five soil samples collected from the side and bottom limits of the excavation. However, none of the detected contaminants were at levels in excess of their Residential Maximum Soil Contaminant Concentrations as set forth in *The Guidelines*.

The analytical results for the EPA Method 8270 test also indicated the presence of numerous targeted parameters at levels in excess of their Soil to Groundwater Maximum Soil Contaminant Concentrations as set forth in *The Guidelines* in all five soil samples collected from the side and bottom limits of the excavation. Of these, only 2-methylnaphthalene was detected in the bottom sample at a level (110 mg/kg) in excess of its Residential Maximum Soil Contaminant Concentration of 63 mg/kg as set forth in *The Guidelines*.

Finally, the analytical results for the MADEP VPH/EPH detected the presence of C5-C8 aliphatic, C9-C18 aliphatics, C19-C36 aliphatics and C9-C22 aromatics in one or more of the five samples collected from the limits of the excavation for laboratory analysis. C9-C18 aliphatics were detected in sample Side 1 at a level (14,025 mg/kg) in excess of their Residential Maximum Soil Contaminant Concentration of 469 mg/kg as set forth in *The Guidelines*. Also, C9-C22 aromatics were found in samples Side 1, Side 3, Side 4 and the bottom sample at levels (4,529, 932, 1,052 and 4,021 mg/kg, respectively) in excess of their Residential Maximum Soil Contaminant Concentration of 469 mg/kg as set forth in *The Guidelines*.

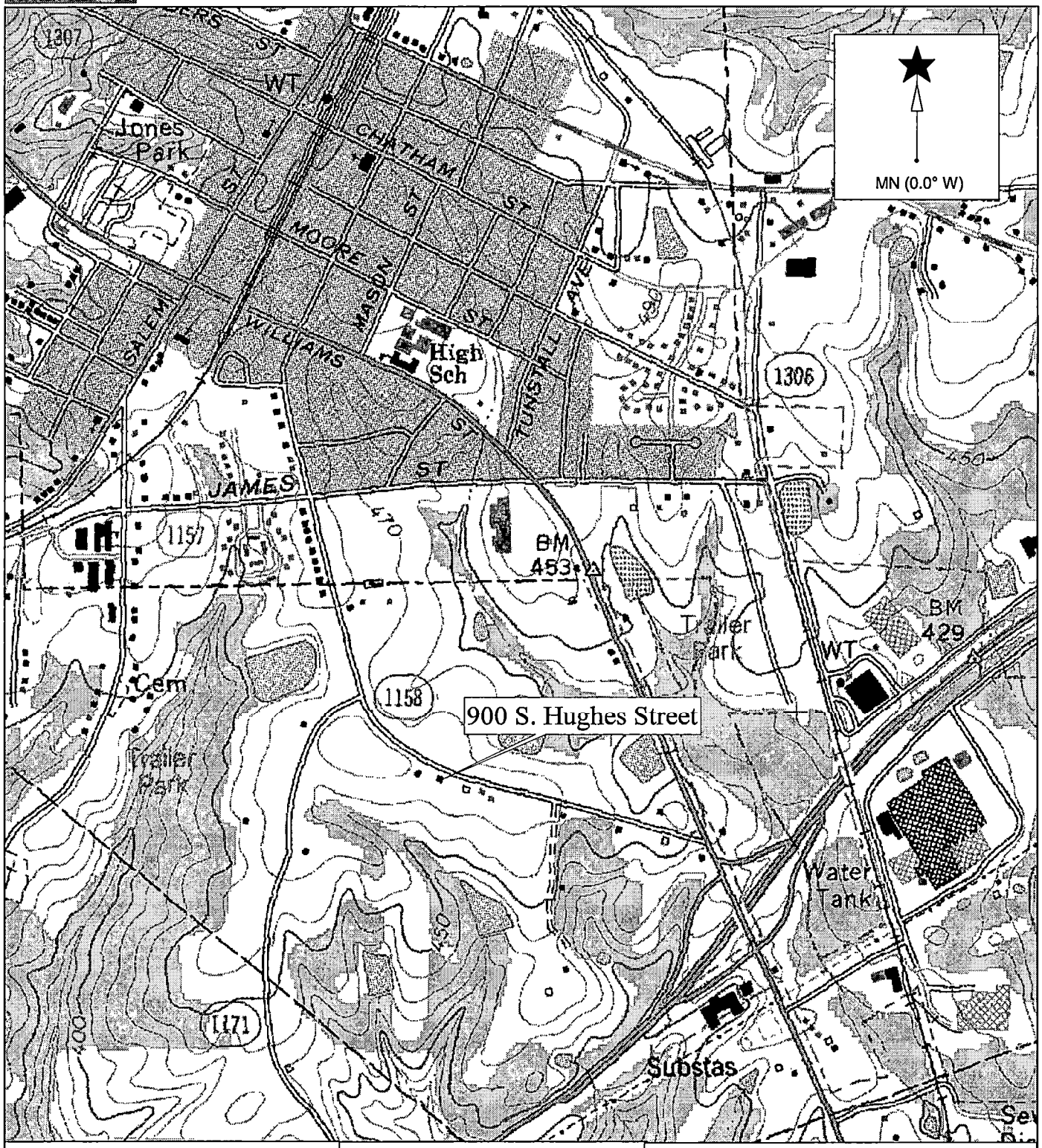
Table 1 in Section B is a summary of the contaminants detected by these methods while the laboratory analytical reports are attached in **Section C**.

(6) Investigate to determine the possible presence of free product, and begin free product removal as soon as practical.

While no monitoring well has been installed to date in order to check for the presence of free product the fact that no free product was observed in the petroleum contaminated soil excavation is an indication that no free phase product exists in the subsurface of the Site. However, it is likely that the NCDENR will require that a Phase I Limited Site Assessment be prepared and additional free product investigative activities will be completed at that time.

SECTION A

FIGURES



East Coast Environmental, P.A.	Figure 1 Site Location Map	900 S. Hughes Street Apex, North Carolina

Scale 1 : 12,800

1" = 1,066.7 ft Data Zoom 14-0

CAD FILE:	PREP. BY:	REV. BY:	DATE:	PROJECT NO.
B32site	TRW	TRW	7/12/05	

GRAPHIC SCALE
0 5 10 15 20
1"=10'

TITLE: FIGURE 2
SITE MAP WITH UST AND SOIL SAMPLING LOCATIONS
900 S. HUGHES STREET
APEX, WAKE COUNTY, NORTH CAROLINA

East Coast Environmental, P.A.
3709 Junction Boulevard
Raleigh, North Carolina 27603
(919) 772-0268 FAX:(919) 772-0468

UST #	VOLUME	CONTENTS
T-1	270 Gallon	Heating Oil

Assumed North

OUT OF USE WATER SUPPLY WELL

Residence

Porch

Lawn

55' to S. Hughes Street

Lawn

Sidewalk

Side 1

Side 2

Side 3

Side 4

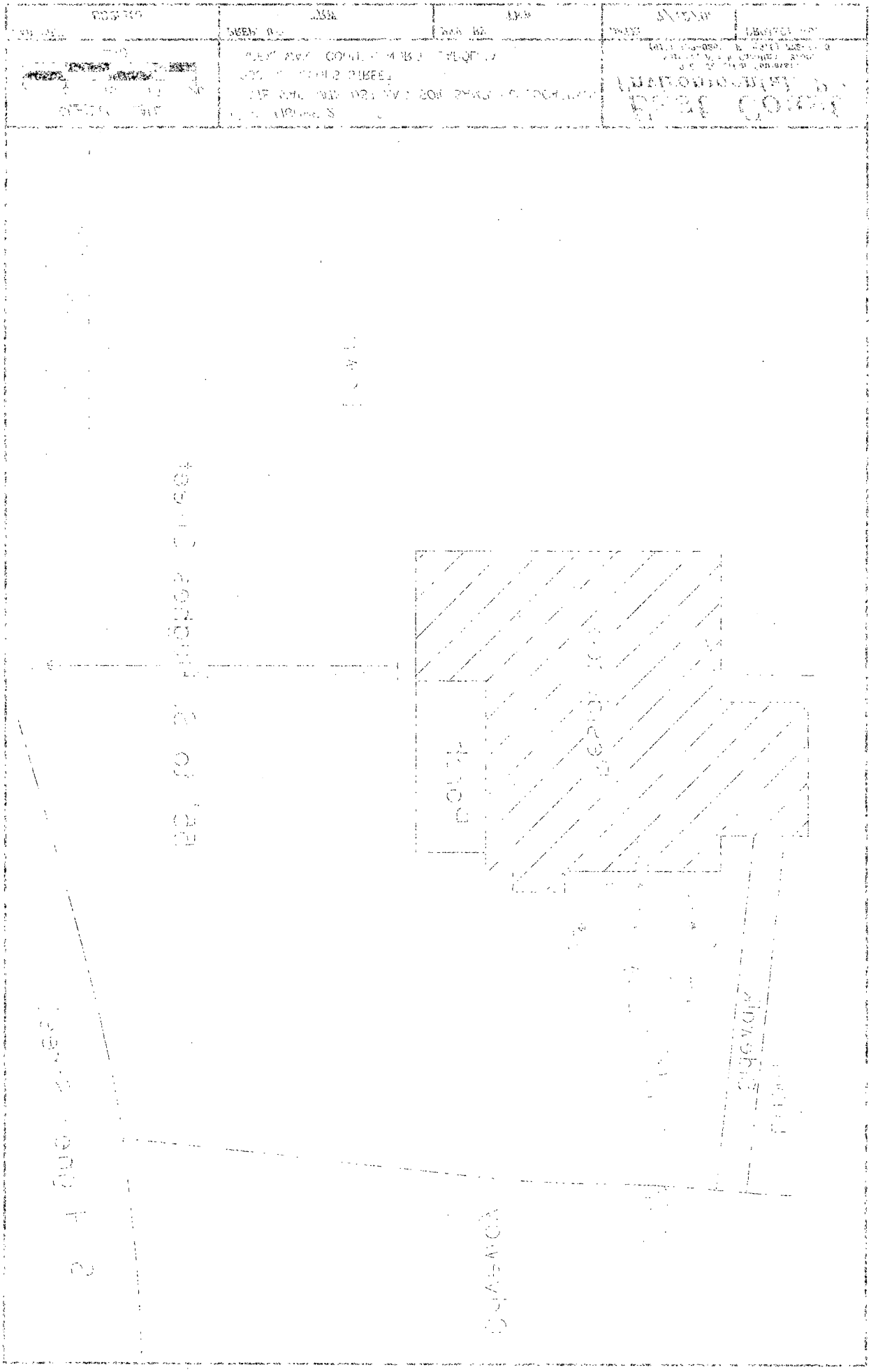
Bottom

T-1

APPROXIMATE LIMIT OF UST T-1
EXCAVATION (12' x 10' x 11' Deep)

Driveway

S. Hughes Street



SECTION B

TABLES AND SOIL DISPOSAL MANIFESTS

Table 1
Summary of Analytical Data – Soil
EPA Method 8260
900 S. Hughes Street
Apex, NC

Analytical Method >			8260	8260	8260	8260	8260	8260	8260	8260	8260	8260	8260	8260
Sample ID	Contaminant of Concern >		Chloromethane	Bromomethane	Ethylbenzene	Isopropylbenzene	P-isopropyltoluene	Naphthalene	N-propylbenzene	Toluene	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Total Xylenes	Sec butyl benzene	N-butyl benzene
	Date Collected m/dd/yy	Sample Depth (ft)													
Side 1	6/17/05	5' – 6'	**1.400**	**0.700**	**0.560**	BQL	**1.100**	**5.600**	0.580	BQL	4.600	1.500	3.200	0.450	0.900
Side 2	6/17/05	5' – 6'	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Side 3	6/17/05	5' – 6'	**1.200**	**0.610**	BQL	BQL	**0.550**	**2.200**	BQL	BQL	2.000	0.640	1.300	BQL	0.400
Side 4	6/17/05	5' – 6'	**0.800**	**0.850**	**0.770**	0.420	**2.300**	**5.400**	0.960	BQL	6.300	2.000	4.000	**1.100**	1.700
Bottom	6/17/05	11'–12'	BQL	BQL	BQL	BQL	**6.200**	**42.000**	BQL	BQL	**28.000**	**8.400**	**23.000**	BQL	BQL
Soil to Groundwater MSCC			**0.02**	**NRS**	**0.24**	**2**	**NRS**	**0.58**	**2**	**7**	**8**	**8**	**5**	**0.92**	**4**
Residential MSCC			**49**	**NRS**	**1,560**	**1,564**	**NRS**	**63**	**156**	**3,200**	**782**	**782**	**32,000**	**156**	**156**
Industrial/Commercial MSCC			**440**	**NRS**	**40,000**	**40,880**	**NRS**	**1,635**	**4,088**	**82,000**	**20,440**	**20,440**	**200,000**	**4,088**	**4,088**

Results are in mg/kg
Bold results indicate exceedence of Soil to Groundwater MSCC
Bold and shaded results indicate exceedence of Residential MSCC

Table 1 (Continued)
Summary of Analytical Data – Soil
EPA 8270
900 S. Hughes Street
Apex, North Carolina

Analytical Method >			8270	8270	8270	8270	8270	8270	8270	8270	8270	8270
Sample ID	Contaminant of Concern >		Naphthalene	2-Methylnaphthalene	Acenaphthene	Phenanthrene	Dibenzofuran	Fluorene	Pyrene	Acetophenone	Caprolactum	1.1' Biphenyl
	Date Collected (m/dd/yy)	Sample Depth (ft)										
Side 1	6/17/05	5' – 6'	**14.00D**	**60.00D**	1.900	9.20D	1.300	3.000	0.610	**4.000**	**18.00D**	**3.300**
Side 2	6/17/05	5' – 6'	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.610**	BQL
Side 3	6/17/05	5' – 6'	**3.600**	**21.00D**	BQL	3.000	0.570	1.400	BQL	BQL	**5.700**	**1.400**
Side 4	6/17/05	5' – 6'	**3.700**	**22.00D**	BQL	3.600	0.570	1.700	BQL	**1.800**	**5.300**	**1.700**
Bottom	6/17/05	11' – 12'	**27.00D**	**110.0D**	3.200	18.00D	2.200	4.300	1.400	**7.90E**	**34.00D**	**5.900**
Soil to Groundwater MSCC			**0.58**	**3**	**8**	**60**	**4.7**	**44**	**286**	**NRS**	**NRS**	**NRS**
Residential MSCC			**63**	**63**	**940**	**469**	**62**	**620**	**469**	**NRS**	**NRS**	**NRS**
Industrial/Commercial MSCC			**1635**	**1635**	**24,000**	**12264**	**1635**	**16400**	**12264**	**NRS**	**NRS**	**NRS**

Results are in mg/kg
Bold results indicate exceedence of Soil to Groundwater MSCC
Bold and shaded results indicate exceedence of Residential MSCC

Table 1 (continued)
Summary of Analytical Data – Soil
MADEP-VPH/EPH
900 S. Hughes Street
Apex, NC

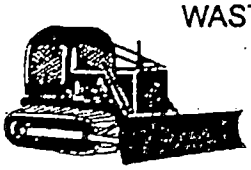
Analytical Method >			MADEP VPH	MADEP VPH/EPH	MADEP EPH	MADEP VPH/EPH		
Sample ID	Contaminant of Concern > Date Collected (m/dd/yy)	Sample Depth (ft)	C5-C8 Aliphatics	C9-C18 Aliphatics	C19-C36 Aliphatics	C9-C22 Aromatics		
Side 1	6/17/05	5' – 6'	BQL	**14,025**	1,700	**4,529**		
Side 2	6/17/05	5' – 6'	BQL	86	17	20		
Side 3	6/17/05	5' – 6'	12	2,751	320	**932**		
Side 4	6/17/05	5' – 6'	BQL	2,745	390	**1,052**		
Bottom	6/17/05	11' – 12'	BQL	**7,118**	1,200	**4,021**		
Soil to Groundwater MSCC			**72**	**3,255**	**Immobile**	**34**		
Residential MSCC			**939**	**9,386**	**93,860**	**469**		
Industrial/Commercial MSCC			**24,528**	**245,280**	**Health Based**	**12,264**		

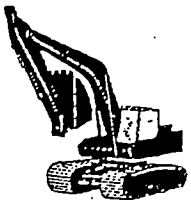
Results are in mg/kg
Bold results indicate exceedence of Soil to Groundwater MSCC
Bold and shaded results indicate exceedence of Residential MSCC
N/A – Not Analyzed
ND - Not Detected

SOILWORKS

12861 NC96
Zebulon, NC 27597
Telephone: (919) 366-1500

NON-HAZARDOUS
WASTE MANIFEST





NON-HAZARDOUS
PETROLEUM CONTAMINATED SOIL

Please Check Appropriate Block

TPH/PPM _____

☐ Gasoline ☐ Kerosene
☐ Diesel ☐ Jet Fuel ☒ Light Oil

APPROVAL # _____

MANIFEST # 3

BROKER/CONTRACTOR: Creekside Land Development

TELEPHONE: (919) 427-5497

12861 NC Hwy. 96

Zebulon, NC 27597

GENERATOR: Mildred Rigsbee Property

eb

832 S. Hughes Street

Apex, NC 27502

TRANSPORTER: Morgan Trucking

TELEPHONE: (919) 365-9060

~~P.O. Box 509~~

~~Wendell, NC 27591~~

GROSS WEIGHT 84040

TRUCK TAG # & STATE: eb

TARE WEIGHT 31900

TRUCK #: 4074

NET WGT. 52140

DRIVER'S SIGNATURE: KB

EQUIV. TONS 26.07

DATE & TIME DISPATCHED: 6/17/05

BY: eb

DATE & TIME WEIGHED: 6/17/05

BY: _____

WEIGH MASTER SIG.: eb

INSPECTED & ACCEPTED BY: (SOILWORKS) Laura Buchanan

DATE & TIME RECEIVED: 6/17/05

☐ A.M. WEATHER ☐ P.M.
☐ Clear ☐ Overcast
☐ Rain ☐ Drizzle ☐ Snow

NOTICE TO TRUCKER:
TRUCKS WILL NOT BE PERMITTED TO ENTER THE FACILITY WITHOUT THIS ENTRANCE FORM:

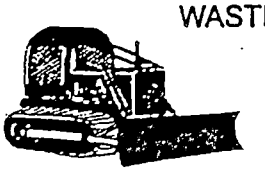
White - Billing
Yellow - Generator
Pink - Filing
Gold - Trucker

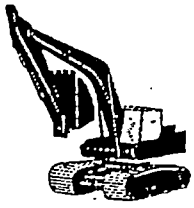
White, Yellow and Pink copies of this form must be left at Soilworks.

SOILWORKS

12861 NC96
Zebulon, NC 27597
Telephone: (919) 366-1500

NON-HAZARDOUS
WASTE MANIFEST





NON-HAZARDOUS
PETROLEUM CONTAMINATED SOIL

Please Check Appropriate Block

TPH/PPM _____

☐ Gasoline ☐ Kerosene
☐ Diesel ☐ Jet Fuel ☑ Light Oil

APPROVAL # _____

MANIFEST # 4

BROKER/CONTRACTOR: Creekside Land Development

TELEPHONE: (919) 427-5497

12861 NC Hwy. 96

Zebulon, NC 27597

GENERATOR: Mildred Rigsbee Property

/eb

832 S. Hughes Street

Apex, NC 27502

TRANSPORTER: Morgan Trucking

TELEPHONE: (919) 365-9060

P.O. Box 509

~~Wendell, NC 27591~~

GROSS WEIGHT 75140

TRUCK TAG # & STATE: /eb

TARE WEIGHT /eb 26500

TRUCK #: MT18

NET WGT. 48640

DRIVER'S SIGNATURE: /eb

EQUIV. TONS 24.32

DATE & TIME DISPATCHED: 6/17/05

BY: eb

DATE & TIME WEIGHED: 6/17/05

BY: _____

WEIGH MASTER SIG.: /eb

INSPECTED & ACCEPTED BY: (SOILWORKS) Laura Buchanan

DATE & TIME RECEIVED: 6/17/05

☐ A.M. WEATHER ☐ P.M.
☐ Clear ☐ Overcast
☐ Rain ☐ Drizzle ☐ Snow

NOTICE TO TRUCKER:
TRUCKS WILL NOT BE PERMITTED TO ENTER THE FACILITY WITHOUT THIS ENTRANCE FORM:

White - Billing
Yellow - Generator
Pink - Filing
Gold - Trucker

White, Yellow and Pink copies of this form must be left at Soilworks.

15A NCAC 2N .0703
900 S. Hughes Street
Apex, North Carolina

SECTION C

LABORATORY REPORTS

CompuChem
a division of Liberty Analytical Corp.

16-Jun-05

TOM WILL
EAST COAST ENVIRONMENTAL
3709 JUNCTION BLVD.

RALEIGH, NC 27603

Subject:
Report of Data-Project: HUGHES Workorder: 6774

Attn.: TOM WILL

Enclosed are the results of analytical work performed in accordance with the referenced account number.

This report covers sample(s) appearing on the attached listing.

Thank you for selecting CompuChem for your sample analysis. If you should have questions or require additional analytical services, please contact your representative at 1-800-833-5097.

Sincerely,

CompuChem
A Division of Liberty Analytical

Attachment

TOTAL NUMBER
OF PAGES_____

501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

900 S.HUGHES

Lab Name: COMPUCHEM Contract: 8015B DRO

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6774

Matrix: (soil/water) SOIL Lab Sample ID: 677402

Sample wt/vol: 20.0 (g/mL) G Lab File ID: _____

% Moisture: 19 decanted: (Y/N) N Date Received: 06/03/05

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:06/07/05

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/15/05

Injection Volume: 1.0(uL) Dilution Factor: 50.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
9999-99-5	Diesel	10000	

№ 00526

Page 1 of 1

CHAIN OF CUSTODY

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

Company Name: East Coast Environtal	Project Name: Hughes Street
Address	Sampling Location: Apex NC
City State Zip	Turnaround time: Standard
Project Contact	Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: 772-0268	Are aqueous samples field filtered for metals? Y or N
Sampler's Name	Are high concentrations expected? Y or N? If yes, which ID(s)?

Matrix: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

Lab ID	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Analysis Requested
677401	832 S. Hughes	6/1	4:30	SO	1							EPA 3550 - 4 oz
677402	900 S. Hughes	6/1	5:00	SO	1							

Sample Unpacked By:
Sample Order Entry By: Marlena S. Smith
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Relinquished by: Date/Time: 6-3-05 12:15 Received by: Date/Time: 6/3/05 12:1
Relinquished by: Date/Time: Received by: Date/Time:
Subcontact? Y or N If yes, where? Custody Seal(s) intact? Y or N On Ice? Y or N Cooler Temp: 2.5 °C

White & Yellow copy to lab • Pink copy for customer

CompuChem

a division of Liberty Analytical Corp.

29-Jun-05

TOM WILL
EAST COAST ENVIRONMENTAL
3709 JUNCTION BLVD.

RALEIGH, NC 27603

Subject:
Report of Data-Project: 900 S.HUGHES Workorder: 6925

Attn.: TOM WILL

Enclosed are the results of analytical work performed in accordance with the referenced account number.

This report covers sample(s) appearing on the attached listing.

Thank you for selecting CompuChem for your sample analysis. If you should have questions or require additional analytical services, please contact your representative at 1-800-833-5097.

Sincerely,

Marlene Smith

CompuChem
A Division of Liberty Analytical

Attachment

TOTAL NUMBER
OF PAGES____

501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

№ 009898
Page 1 of 1

Courier
Airbill No.
Sampling Complete? Y or N

Company Name: East Coast Environmental	Project Name: 900 S. Hughes
Address: 3709 Junction Blvd	Sampling Location: Apex
City: Raleigh State: NC Zip: 27603	Turnaround time: Standard
Project Contact: W.U.	Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: 772-0268	Are aqueous samples field filtered for metals? Y or N
Sampler's Name:	Are high concentrations expected? Y or N? If yes, which ID(s)?

Lab ID	Field ID	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	MEOH	Other	EPA 8260 (3 Encore)	EPA 8270 (4 oz)	MADEP VPH/EPH (4 oz)
692501 / 694102	Side 1	6/17	4:00	Soil								X	X	X
692502 / 694103	Side 2	6/17	4:20	Soil								X	X	X
692503 / 694104	Side 3	6/17	4:30	Soil								X	X	X
692504 / 694105	Side 4	6/17	4:40	Soil								X	X	X

T. Fund Rate

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

Lab Use Only

Sample Unpacked By:
Sample Order Entry By:
Samples Received in Good Condition? (Y) or N
If no, explain: DID NOT REC 40 ML for Side 3

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Comments

Sample Custody

Relinquished by:	Date/Time: 6/17 5:00	Received by:	Date/Time: 6/17/4 17:20
Relinquished by:	Date/Time:	Received by:	Date/Time:
Subcontact? Y or N If yes, where?		Custody Seal(s) intact? Y or (N)	On Ice? (Y) or N	Cooler Temp: 3.1 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

№ 009897

Page 1 of 1

Courier
Airbill No.
Sampling Complete? Y or N

Company Name: East Coast Brown	Project Name: 900 S. Hughes
Address: 3709 Junction Blvd	Sampling Location: Apex
City: Raleigh State: NC Zip: 27603	Turnaround time: Standard
Project Contact: Will	Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: 772-0268	Are aqueous samples field filtered for metals? Y or N
Sampler's Name:	Are high concentrations expected? Y or N? If yes, which ID(s)?

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	5 glass X EPA 8260	4 oz X EPA 8270	X MADEP VPH/EPH 14
925054144101 Bottom	6/17	4:00	Soil								X	X	X

Wash T. Cold Rate

Lab Use Only

Sample Unpacked By:
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments:

Sample Custody

Relinquished by: Date/Time: 6-17 5:00 Received by:
Relinquished by: Date/Time: Received by:
Subcontact? Y or N If yes, where?
Custody Seal(s) intact? Y or N On Ice? Y or N

Date/Time: 6/17/4 17:00
Date/Time:
Cooler Temp: 3.1 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SIDE 1

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6925

Matrix: (soil/water) SOIL Lab Sample ID: 692501

Sample wt/vol: 5.60(g/mL) G Lab File ID: 692501DA61

Level: (low/med) MED Date Received: 06/17/05

% Moisture: not dec. 23 Date Analyzed: 06/28/05

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:(5000)(ul) Soil Aliquot Volume: 100(ul)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	290	U
74-87-3	Chloromethane	1400	
75-01-4	Vinyl Chloride	290	U
74-83-9	Bromomethane	700	
75-00-3	Chloroethane	290	U
75-69-4	Trichlorofluoromethane	290	U
75-35-4	1,1-Dichloroethene	290	U
75-09-2	Methylene Chloride	290	U
156-60-5	trans-1,2-Dichloroethene	290	U
1634-04-4	Methyl-tert-butyl ether	290	U
75-34-3	1,1-Dichloroethane	290	U
108-20-3	Isopropyl ether	290	U
594-20-7	2,2-Dichloropropane	290	U
156-59-2	cis-1,2-Dichloroethene	290	U
74-97-5	Bromochloromethane	290	U
67-66-3	Chloroform	290	U
71-55-6	1,1,1-Trichloroethane	290	U
56-23-5	Carbon Tetrachloride	290	U
563-58-6	1,1-dichloropropene	290	U
71-43-2	Benzene	290	U
107-06-2	1,2-Dichloroethane	290	U
79-01-6	Trichloroethene	290	U
78-87-5	1,2-Dichloropropane	290	U
74-95-3	Dibromomethane	290	U
75-27-4	Bromodichloromethane	290	U
108-88-3	Toluene	290	U
79-00-5	1,1,2-Trichloroethane	290	U
127-18-4	Tetrachloroethene	290	U
142-28-9	1,3-Dichloropropane	290	U
124-48-1	Dibromochloromethane	290	U
106-93-4	1,2-Dibromoethane	290	U
108-90-7	Chlorobenzene	290	U
630-20-6	1,1,1,2-Tetrachloroethane	290	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SIDE 1

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6925

Matrix: (soil/water) SOIL Lab Sample ID: 692501

Sample wt/vol: 5.60(g/mL) G Lab File ID: 692501DA61

Level: (low/med) MED Date Received: 06/17/05

% Moisture: not dec. 23 Date Analyzed: 06/28/05

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:(5000)(ul) Soil Aliquot Volume: 100(ul)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-41-4	Ethylbenzene	560	
100-42-5	Styrene	290	U
75-25-2	Bromoform	290	U
98-82-8	Isopropyl Benzene	290	U
108-86-1	Bromobenzene	290	U
96-18-4	1,2,3-Trichloropropane	290	U
79-34-5	1,1,2,2-Tetrachloroethane	290	U
103-65-1	n-Propyl Benzene	580	
95-49-8	2-Chlorotoluene	290	U
106-43-4	4-Chlorotoluene	290	U
108-67-8	1,3,5-Trimethyl Benzene	1500	
98-06-6	tert-Butyl Benzene	290	U
95-63-6	1,2,4-Trimethyl Benzene	4600	
135-98-8	sec-Butyl Benzene	450	
541-73-1	1,3-Dichlorobenzene	290	U
106-46-7	1,4-Dichlorobenzene	290	U
99-87-6	p-Isopropyl Toluene	1100	
95-50-1	1,2-Dichlorobenzene	290	U
104-51-8	n-Butyl Benzene	900	
96-12-8	1,2-Dibromo-3-Chloropropane	290	U
120-82-1	1,2,4-Trichlorobenzene	290	U
87-68-3	Hexachlorobutadiene	290	U
91-20-3	Naphthalene	5600	
87-61-6	1,2,3-Trichlorobenzene	290	U
1330-20-7	Xylene (total)	3200	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SIDE 2

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6925

Matrix: (soil/water) SOIL Lab Sample ID: 692502

Sample wt/vol: 5.00(g/mL) G Lab File ID: 692502RA62

Level: (low/med) LOW Date Received: 06/17/05

% Moisture: not dec. 19 Date Analyzed: 06/28/05

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	6.2	U
74-87-3	Chloromethane	6.2	U
75-01-4	Vinyl Chloride	6.2	U
74-83-9	Bromomethane	6.2	U
75-00-3	Chloroethane	6.2	U
75-69-4	Trichlorofluoromethane	6.2	U
75-35-4	1,1-Dichloroethene	6.2	U
75-09-2	Methylene Chloride	6.2	U
156-60-5	trans-1,2-Dichloroethene	6.2	U
1634-04-4	Methyl-tert-butyl ether	6.2	U
75-34-3	1,1-Dichloroethane	6.2	U
108-20-3	Isopropyl ether	6.2	U
594-20-7	2,2-Dichloropropane	6.2	U
156-59-2	cis-1,2-Dichloroethene	6.2	U
74-97-5	Bromochloromethane	6.2	U
67-66-3	Chloroform	6.2	U
71-55-6	1,1,1-Trichloroethane	6.2	U
56-23-5	Carbon Tetrachloride	6.2	U
563-58-6	1,1-dichloropropene	6.2	U
71-43-2	Benzene	6.2	U
107-06-2	1,2-Dichloroethane	6.2	U
79-01-6	Trichloroethene	6.2	U
78-87-5	1,2-Dichloropropane	6.2	U
74-95-3	Dibromomethane	6.2	U
75-27-4	Bromodichloromethane	6.2	U
108-88-3	Toluene	6.2	U
79-00-5	1,1,2-Trichloroethane	6.2	U
127-18-4	Tetrachloroethene	6.2	U
142-28-9	1,3-Dichloropropane	6.2	U
124-48-1	Dibromochloromethane	6.2	U
106-93-4	1,2-Dibromoethane	6.2	U
108-90-7	Chlorobenzene	6.2	U
630-20-6	1,1,1,2-Tetrachloroethane	6.2	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SIDE 2

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6925

Matrix: (soil/water) SOIL Lab Sample ID: 692502

Sample wt/vol: 5.00(g/mL) G Lab File ID: 692502RA62

Level: (low/med) LOW Date Received: 06/17/05

% Moisture: not dec. 19 Date Analyzed: 06/28/05

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-41-4	Ethylbenzene	6.2	U
100-42-5	Styrene	6.2	U
75-25-2	Bromoform	6.2	U
98-82-8	Isopropyl Benzene	6.2	U
108-86-1	Bromobenzene	6.2	U
96-18-4	1,2,3-Trichloropropane	6.2	U
79-34-5	1,1,2,2-Tetrachloroethane	6.2	U
103-65-1	n-Propyl Benzene	6.2	U
95-49-8	2-Chlorotoluene	6.2	U
106-43-4	4-Chlorotoluene	6.2	U
108-67-8	1,3,5-Trimethyl Benzene	6.2	U
98-06-6	tert-Butyl Benzene	6.2	U
95-63-6	1,2,4-Trimethyl Benzene	6.2	U
135-98-8	sec-Butyl Benzene	6.2	U
541-73-1	1,3-Dichlorobenzene	6.2	U
106-46-7	1,4-Dichlorobenzene	6.2	U
99-87-6	p-Isopropyl Toluene	6.2	U
95-50-1	1,2-Dichlorobenzene	6.2	U
104-51-8	n-Butyl Benzene	6.2	U
96-12-8	1,2-Dibromo-3-Chloropropane	6.2	U
120-82-1	1,2,4-Trichlorobenzene	6.2	U
87-68-3	Hexachlorobutadiene	6.2	U
91-20-3	Naphthalene	6.2	U
87-61-6	1,2,3-Trichlorobenzene	6.2	U
1330-20-7	Xylene (total)	19	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SIDE 3

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6925

Matrix: (soil/water) SOIL Lab Sample ID: 692503

Sample wt/vol: 5.68(g/mL) G Lab File ID: 692503DA61

Level: (low/med) MED Date Received: 06/17/05

% Moisture: not dec. 20 Date Analyzed: 06/28/05

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:(5000)(ul) Soil Aliquot Volume: 100(ul)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	280	U
74-87-3	Chloromethane	1200	
75-01-4	Vinyl Chloride	280	U
74-83-9	Bromomethane	610	
75-00-3	Chloroethane	280	U
75-69-4	Trichlorofluoromethane	280	U
75-35-4	1,1-Dichloroethene	280	U
75-09-2	Methylene Chloride	280	U
156-60-5	trans-1,2-Dichloroethene	280	U
1634-04-4	Methyl-tert-butyl ether	280	U
75-34-3	1,1-Dichloroethane	280	U
108-20-3	Isopropyl ether	280	U
594-20-7	2,2-Dichloropropane	280	U
156-59-2	cis-1,2-Dichloroethene	280	U
74-97-5	Bromochloromethane	280	U
67-66-3	Chloroform	280	U
71-55-6	1,1,1-Trichloroethane	280	U
56-23-5	Carbon Tetrachloride	280	U
563-58-6	1,1-dichloropropene	280	U
71-43-2	Benzene	280	U
107-06-2	1,2-Dichloroethane	280	U
79-01-6	Trichloroethene	280	U
78-87-5	1,2-Dichloropropane	280	U
74-95-3	Dibromomethane	280	U
75-27-4	Bromodichloromethane	280	U
108-88-3	Toluene	280	U
79-00-5	1,1,2-Trichloroethane	280	U
127-18-4	Tetrachloroethene	280	U
142-28-9	1,3-Dichloropropane	280	U
124-48-1	Dibromochloromethane	280	U
106-93-4	1,2-Dibromoethane	280	U
108-90-7	Chlorobenzene	280	U
630-20-6	1,1,1,2-Tetrachloroethane	280	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SIDE 3

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6925

Matrix: (soil/water) SOIL Lab Sample ID: 692503

Sample wt/vol: 5.68(g/mL) G Lab File ID: 692503DA61

Level: (low/med) MED Date Received: 06/17/05

% Moisture: not dec. 20 Date Analyzed: 06/28/05

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:(5000)(ul) Soil Aliquot Volume: 100(ul)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-41-4	Ethylbenzene	280	U
100-42-5	Styrene	280	U
75-25-2	Bromoform	280	U
98-82-8	Isopropyl Benzene	280	U
108-86-1	Bromobenzene	280	U
96-18-4	1,2,3-Trichloropropane	280	U
79-34-5	1,1,2,2-Tetrachloroethane	280	U
103-65-1	n-Propyl Benzene	280	U
95-49-8	2-Chlorotoluene	280	U
106-43-4	4-Chlorotoluene	280	U
108-67-8	1,3,5-Trimethyl Benzene	640	
98-06-6	tert-Butyl Benzene	280	U
95-63-6	1,2,4-Trimethyl Benzene	2000	
135-98-8	sec-Butyl Benzene	280	U
541-73-1	1,3-Dichlorobenzene	280	U
106-46-7	1,4-Dichlorobenzene	280	U
99-87-6	p-Isopropyl Toluene	550	
95-50-1	1,2-Dichlorobenzene	280	U
104-51-8	n-Butyl Benzene	400	
96-12-8	1,2-Dibromo-3-Chloropropane	280	U
120-82-1	1,2,4-Trichlorobenzene	280	U
87-68-3	Hexachlorobutadiene	280	U
91-20-3	Naphthalene	2200	
87-61-6	1,2,3-Trichlorobenzene	280	U
1330-20-7	Xylene (total)	1300	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SIDE 4

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6925

Matrix: (soil/water) SOIL Lab Sample ID: 692504

Sample wt/vol: 5.22(g/mL) G Lab File ID: 692504DA61

Level: (low/med) MED Date Received: 06/17/05

% Moisture: not dec. 19 Date Analyzed: 06/28/05

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:(5000)(ul) Soil Aliquot Volume: 100(ul)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	300	U
74-87-3	Chloromethane	800	
75-01-4	Vinyl Chloride	300	U
74-83-9	Bromomethane	850	
75-00-3	Chloroethane	300	U
75-69-4	Trichlorofluoromethane	300	U
75-35-4	1,1-Dichloroethene	300	U
75-09-2	Methylene Chloride	300	U
156-60-5	trans-1,2-Dichloroethene	300	U
1634-04-4	Methyl-tert-butyl ether	300	U
75-34-3	1,1-Dichloroethane	300	U
108-20-3	Isopropyl ether	300	U
594-20-7	2,2-Dichloropropane	300	U
156-59-2	cis-1,2-Dichloroethene	300	U
74-97-5	Bromochloromethane	300	U
67-66-3	Chloroform	300	U
71-55-6	1,1,1-Trichloroethane	300	U
56-23-5	Carbon Tetrachloride	300	U
563-58-6	1,1-dichloropropene	300	U
71-43-2	Benzene	300	U
107-06-2	1,2-Dichloroethane	300	U
79-01-6	Trichloroethene	300	U
78-87-5	1,2-Dichloropropane	300	U
74-95-3	Dibromomethane	300	U
75-27-4	Bromodichloromethane	300	U
108-88-3	Toluene	300	U
79-00-5	1,1,2-Trichloroethane	300	U
127-18-4	Tetrachloroethene	300	U
142-28-9	1,3-Dichloropropane	300	U
124-48-1	Dibromochloromethane	300	U
106-93-4	1,2-Dibromoethane	300	U
108-90-7	Chlorobenzene	300	U
630-20-6	1,1,1,2-Tetrachloroethane	300	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SIDE 4

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6925

Matrix: (soil/water) SOIL Lab Sample ID: 692504

Sample wt/vol: 5.22(g/mL) G Lab File ID: 692504DA61

Level: (low/med) MED Date Received: 06/17/05

% Moisture: not dec. 19 Date Analyzed: 06/28/05

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:(5000)(ul) Soil Aliquot Volume: 100(ul)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-41-4	Ethylbenzene	770	
100-42-5	Styrene	300	U
75-25-2	Bromoform	300	U
98-82-8	Isopropyl Benzene	420	
108-86-1	Bromobenzene	300	U
96-18-4	1,2,3-Trichloropropane	300	U
79-34-5	1,1,2,2-Tetrachloroethane	300	U
103-65-1	n-Propyl Benzene	960	
95-49-8	2-Chlorotoluene	300	U
106-43-4	4-Chlorotoluene	300	U
108-67-8	1,3,5-Trimethyl Benzene	2000	
98-06-6	tert-Butyl Benzene	300	U
95-63-6	1,2,4-Trimethyl Benzene	6300	
135-98-8	sec-Butyl Benzene	1100	
541-73-1	1,3-Dichlorobenzene	300	U
106-46-7	1,4-Dichlorobenzene	300	U
99-87-6	p-Isopropyl Toluene	2300	
95-50-1	1,2-Dichlorobenzene	300	U
104-51-8	n-Butyl Benzene	1700	
96-12-8	1,2-Dibromo-3-Chloropropane	300	U
120-82-1	1,2,4-Trichlorobenzene	300	U
87-68-3	Hexachlorobutadiene	300	U
91-20-3	Naphthalene	5400	
87-61-6	1,2,3-Trichlorobenzene	300	U
1330-20-7	Xylene (total)	4000	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

BOTTOM

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6925

Matrix: (soil/water) SOIL Lab Sample ID: 692505

Sample wt/vol: 5.54 (g/mL) G Lab File ID: 692505DA61

Level: (low/med) MED Date Received: 06/17/05

% Moisture: not dec. 25 Date Analyzed: 06/28/05

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (5000) (ul) Soil Aliquot Volume: 5 (ul)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	6000	U
74-87-3	Chloromethane	6000	U
75-01-4	Vinyl Chloride	6000	U
74-83-9	Bromomethane	6000	U
75-00-3	Chloroethane	6000	U
75-69-4	Trichlorofluoromethane	6000	U
75-35-4	1,1-Dichloroethene	6000	U
75-09-2	Methylene Chloride	6000	U
156-60-5	trans-1,2-Dichloroethene	6000	U
1634-04-4	Methyl-tert-butyl ether	6000	U
75-34-3	1,1-Dichloroethane	6000	U
108-20-3	Isopropyl ether	6000	U
594-20-7	2,2-Dichloropropane	6000	U
156-59-2	cis-1,2-Dichloroethene	6000	U
74-97-5	Bromochloromethane	6000	U
67-66-3	Chloroform	6000	U
71-55-6	1,1,1-Trichloroethane	6000	U
56-23-5	Carbon Tetrachloride	6000	U
563-58-6	1,1-dichloropropene	6000	U
71-43-2	Benzene	6000	U
107-06-2	1,2-Dichloroethane	6000	U
79-01-6	Trichloroethene	6000	U
78-87-5	1,2-Dichloropropane	6000	U
74-95-3	Dibromomethane	6000	U
75-27-4	Bromodichloromethane	6000	U
108-88-3	Toluene	6000	U
79-00-5	1,1,2-Trichloroethane	6000	U
127-18-4	Tetrachloroethene	6000	U
142-28-9	1,3-Dichloropropane	6000	U
124-48-1	Dibromochloromethane	6000	U
106-93-4	1,2-Dibromoethane	6000	U
108-90-7	Chlorobenzene	6000	U
630-20-6	1,1,1,2-Tetrachloroethane	6000	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

BOTTOM

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6925

Matrix: (soil/water) SOIL Lab Sample ID: 692505

Sample wt/vol: 5.54 (g/mL) G Lab File ID: 692505DA61

Level: (low/med) MED Date Received: 06/17/05

% Moisture: not dec. 25 Date Analyzed: 06/28/05

GC Column: EQUITY624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (5000) (ul) Soil Aliquot Volume: 5 (ul)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-41-4	Ethylbenzene	6000	U
100-42-5	Styrene	6000	U
75-25-2	Bromoform	6000	U
98-82-8	Isopropyl Benzene	6000	U
108-86-1	Bromobenzene	6000	U
96-18-4	1,2,3-Trichloropropane	6000	U
79-34-5	1,1,2,2-Tetrachloroethane	6000	U
103-65-1	n-Propyl Benzene	6000	U
95-49-8	2-Chlorotoluene	6000	U
106-43-4	4-Chlorotoluene	6000	U
108-67-8	1,3,5-Trimethyl Benzene	8400	
98-06-6	tert-Butyl Benzene	6000	U
95-63-6	1,2,4-Trimethyl Benzene	28000	
135-98-8	sec-Butyl Benzene	6000	U
541-73-1	1,3-Dichlorobenzene	6000	U
106-46-7	1,4-Dichlorobenzene	6000	U
99-87-6	p-Isopropyl Toluene	6200	
95-50-1	1,2-Dichlorobenzene	6000	U
104-51-8	n-Butyl Benzene	6000	U
96-12-8	1,2-Dibromo-3-Chloropropane	6000	U
120-82-1	1,2,4-Trichlorobenzene	6000	U
87-68-3	Hexachlorobutadiene	6000	U
91-20-3	Naphthalene	42000	
87-61-6	1,2,3-Trichlorobenzene	6000	U
1330-20-7	Xylene (total)	23000	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SIDE 1

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6925

Matrix: (soil/water) SOIL Lab Sample ID: 692501

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 692501A66

Level: (low/med) LOW Date Received: 06/17/05

% Moisture: 23 decanted: (Y/N) N Date Extracted:06/21/05

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/23/05

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	430	U
108-95-2	Phenol	430	U
111-44-4	Bis(2-chloroethyl)ether	430	U
95-57-8	2-Chlorophenol	430	U
95-48-7	2-Methylphenol	430	U
108-60-1	2,2'-oxybis(1-Chloropropane)	430	U
98-86-2	Acetophenone	4000	
106-44-5	4-Methylphenol	860	U
621-64-7	N-Nitroso-di-N-propylamine	430	U
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
111-91-1	Bis(2-chloroethoxy)methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
91-20-3	Naphthalene	11000	E
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
105-60-2	Caprolactam	14000	E
59-50-7	4-Chloro-3-methylphenol	430	U
91-57-6	2-Methylnaphthalene	49000	E
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	430	U
92-52-4	1,1'-Biphenyl	3300	
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	860	U
131-11-3	Dimethylphthalate	430	U
606-20-2	2,6-Dinitrotoluene	430	U
208-96-8	Acenaphthylene	430	U
99-09-2	3-Nitroaniline	860	U
83-32-9	Acenaphthene	1900	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SIDE 1

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6925

Matrix: (soil/water) SOIL Lab Sample ID: 692501

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 692501A66

Level: (low/med) LOW Date Received: 06/17/05

% Moisture: 23 decanted: (Y/N) N Date Extracted: 06/21/05

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/23/05

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	860	U
100-02-7	4-Nitrophenol	860	U
121-14-2	2,4-Dinitrotoluene	430	U
132-64-9	Dibenzofuran	1300	
84-66-2	Diethylphthalate	430	U
7005-72-3	4-Chlorophenyl-phenylether	430	U
86-73-7	Fluorene	3000	
100-01-6	4-Nitroaniline	860	U
534-52-1	4,6-Dinitro-2-methylphenol	860	U
86-30-6	N-Nitrosodiphenylamine (1)	430	U
101-55-3	4-Bromophenyl-phenylether	430	U
118-74-1	Hexachlorobenzene	430	U
1912-24-9	Atrazine	430	U
87-86-5	Pentachlorophenol	860	U
85-01-8	Phenanthrene	7600	E
120-12-7	Anthracene	430	U
86-74-8	Carbazole	430	U
84-74-2	Di-n-butylphthalate	430	U
206-44-0	Fluoranthene	430	U
129-00-0	Pyrene	610	
85-68-7	Butylbenzylphthalate	430	U
91-94-1	3,3'-Dichlorobenzidine	430	U
117-81-7	bis(2-ethylhexyl)Phthalate	430	U
56-55-3	Benzo(a)anthracene	430	U
218-01-9	Chrysene	430	U
117-84-0	Di-n-octylphthalate	430	U
205-99-2	Benzo(b)fluoranthene	430	U
207-08-9	Benzo(k)fluoranthene	430	U
50-32-8	Benzo(a)pyrene	430	U
193-39-5	Indeno(1,2,3-cd)pyrene	430	U
53-70-3	Dibenzo(a,h)anthracene	430	U
191-24-2	Benzo(g,h,i)perylene	430	U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SIDE 1DL

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6925

Matrix: (soil/water) SOIL Lab Sample ID: 692501DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 692501DA66

Level: (low/med) LOW Date Received: 06/17/05

% Moisture: 23 decanted: (Y/N) N Date Extracted: 06/21/05

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/24/05

Injection Volume: 1.0(uL) Dilution Factor: 15.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	6400	U
108-95-2	Phenol	6400	U
111-44-4	Bis(2-chloroethyl)ether	6400	U
95-57-8	2-Chlorophenol	6400	U
95-48-7	2-Methylphenol	6400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	6400	U
98-86-2	Acetophenone	6400	U
106-44-5	4-Methylphenol	13000	U
621-64-7	N-Nitroso-di-N-propylamine	6400	U
67-72-1	Hexachloroethane	6400	U
98-95-3	Nitrobenzene	6400	U
78-59-1	Isophorone	6400	U
88-75-5	2-Nitrophenol	6400	U
105-67-9	2,4-Dimethylphenol	6400	U
111-91-1	Bis(2-chloroethoxy)methane	6400	U
120-83-2	2,4-Dichlorophenol	6400	U
91-20-3	Naphthalene	14000	D
106-47-8	4-Chloroaniline	6400	U
87-68-3	Hexachlorobutadiene	6400	U
105-60-2	Caprolactam	18000	D
59-50-7	4-Chloro-3-methylphenol	6400	U
91-57-6	2-Methylnaphthalene	60000	D
77-47-4	Hexachlorocyclopentadiene	6400	U
88-06-2	2,4,6-Trichlorophenol	6400	U
95-95-4	2,4,5-Trichlorophenol	6400	U
92-52-4	1,1'-Biphenyl	6400	U
91-58-7	2-Chloronaphthalene	6400	U
88-74-4	2-Nitroaniline	13000	U
131-11-3	Dimethylphthalate	6400	U
606-20-2	2,6-Dinitrotoluene	6400	U
208-96-8	Acenaphthylene	6400	U
99-09-2	3-Nitroaniline	13000	U
83-32-9	Acenaphthene	6400	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SIDE 1DL

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6925

Matrix: (soil/water) SOIL Lab Sample ID: 692501DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 692501DA66

Level: (low/med) LOW Date Received: 06/17/05

% Moisture: 23 decanted: (Y/N) N Date Extracted: 06/21/05

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/24/05

Injection Volume: 1.0(uL) Dilution Factor: 15.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	13000	U
100-02-7	4-Nitrophenol	13000	U
121-14-2	2,4-Dinitrotoluene	6400	U
132-64-9	Dibenzofuran	6400	U
84-66-2	Diethylphthalate	6400	U
7005-72-3	4-Chlorophenyl-phenylether	6400	U
86-73-7	Fluorene	6400	U
100-01-6	4-Nitroaniline	13000	U
534-52-1	4,6-Dinitro-2-methylphenol	13000	U
86-30-6	N-Nitrosodiphenylamine (1)	6400	U
101-55-3	4-Bromophenyl-phenylether	6400	U
118-74-1	Hexachlorobenzene	6400	U
1912-24-9	Atrazine	6400	U
87-86-5	Pentachlorophenol	13000	U
85-01-8	Phenanthrene	9200	D
120-12-7	Anthracene	6400	U
86-74-8	Carbazole	6400	U
84-74-2	Di-n-butylphthalate	6400	U
206-44-0	Fluoranthene	6400	U
129-00-0	Pyrene	6400	U
85-68-7	Butylbenzylphthalate	6400	U
91-94-1	3,3'-Dichlorobenzidine	6400	U
117-81-7	bis(2-ethylhexyl)Phthalate	6400	U
56-55-3	Benzo(a)anthracene	6400	U
218-01-9	Chrysene	6400	U
117-84-0	Di-n-octylphthalate	6400	U
205-99-2	Benzo(b)fluoranthene	6400	U
207-08-9	Benzo(k)fluoranthene	6400	U
50-32-8	Benzo(a)pyrene	6400	U
193-39-5	Indeno(1,2,3-cd)pyrene	6400	U
53-70-3	Dibenzo(a,h)anthracene	6400	U
191-24-2	Benzo(g,h,i)perylene	6400	U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SIDE 2

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6925

Matrix: (soil/water) SOIL Lab Sample ID: 692502

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 692502A66

Level: (low/med) LOW Date Received: 06/17/05

% Moisture: 19 decanted: (Y/N) N Date Extracted:06/21/05

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/23/05

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	410	U
108-95-2	Phenol	410	U
111-44-4	Bis(2-chloroethyl)ether	410	U
95-57-8	2-Chlorophenol	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	2,2'-oxybis(1-Chloropropane)	410	U
98-86-2	Acetophenone	410	U
106-44-5	4-Methylphenol	810	U
621-64-7	N-Nitroso-di-N-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
111-91-1	Bis(2-chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
105-60-2	Caprolactam	610	
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	410	U
92-52-4	1,1'-Biphenyl	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	810	U
131-11-3	Dimethylphthalate	410	U
606-20-2	2,6-Dinitrotoluene	410	U
208-96-8	Acenaphthylene	410	U
99-09-2	3-Nitroaniline	810	U
83-32-9	Acenaphthene	410	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SIDE 2

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6925

Matrix: (soil/water) SOIL Lab Sample ID: 692502

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 692502A66

Level: (low/med) LOW Date Received: 06/17/05

% Moisture: 19 decanted: (Y/N) N Date Extracted:06/21/05

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/23/05

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	810	U
100-02-7	4-Nitrophenol	810	U
121-14-2	2,4-Dinitrotoluene	410	U
132-64-9	Dibenzofuran	410	U
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
86-73-7	Fluorene	410	U
100-01-6	4-Nitroaniline	810	U
534-52-1	4,6-Dinitro-2-methylphenol	810	U
86-30-6	N-Nitrosodiphenylamine (1)	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
1912-24-9	Atrazine	410	U
87-86-5	Pentachlorophenol	810	U
85-01-8	Phenanthrene	410	U
120-12-7	Anthracene	410	U
86-74-8	Carbazole	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	410	U
129-00-0	Pyrene	410	U
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
117-81-7	bis(2-ethylhexyl)Phthalate	410	U
56-55-3	Benzo(a)anthracene	410	U
218-01-9	Chrysene	410	U
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SIDE 3

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6925

Matrix: (soil/water) SOIL Lab Sample ID: 692503

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 692503A66

Level: (low/med) LOW Date Received: 06/17/05

% Moisture: 20 decanted: (Y/N) N Date Extracted: 06/21/05

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/23/05

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	410	U
108-95-2	Phenol	410	U
111-44-4	Bis(2-chloroethyl)ether	410	U
95-57-8	2-Chlorophenol	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	2,2'-oxybis(1-Chloropropane)	410	U
98-86-2	Acetophenone	410	U
106-44-5	4-Methylphenol	830	U
621-64-7	N-Nitroso-di-N-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
111-91-1	Bis(2-chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
91-20-3	Naphthalene	3600	
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
105-60-2	Caprolactam	5700	
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	16000	E
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	410	U
92-52-4	1,1'-Biphenyl	1400	
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	830	U
131-11-3	Dimethylphthalate	410	U
606-20-2	2,6-Dinitrotoluene	410	U
208-96-8	Acenaphthylene	410	U
99-09-2	3-Nitroaniline	830	U
83-32-9	Acenaphthene	410	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SIDE 3

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6925

Matrix: (soil/water) SOIL Lab Sample ID: 692503

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 692503A66

Level: (low/med) LOW Date Received: 06/17/05

% Moisture: 20 decanted: (Y/N) N Date Extracted: 06/21/05

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/23/05

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	830	U
100-02-7	4-Nitrophenol	830	U
121-14-2	2,4-Dinitrotoluene	410	U
132-64-9	Dibenzofuran	570	
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
86-73-7	Fluorene	1400	
100-01-6	4-Nitroaniline	830	U
534-52-1	4,6-Dinitro-2-methylphenol	830	U
86-30-6	N-Nitrosodiphenylamine (1)	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
1912-24-9	Atrazine	410	U
87-86-5	Pentachlorophenol	830	U
85-01-8	Phenanthrene	3000	
120-12-7	Anthracene	410	U
86-74-8	Carbazole	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	410	U
129-00-0	Pyrene	410	U
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
117-81-7	bis(2-ethylhexyl)Phthalate	410	U
56-55-3	Benzo(a)anthracene	410	U
218-01-9	Chrysene	410	U
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SIDE 3DL

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6925

Matrix: (soil/water) SOIL Lab Sample ID: 692503DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 692503DA66

Level: (low/med) LOW Date Received: 06/17/05

% Moisture: 20 decanted: (Y/N) N Date Extracted:06/21/05

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/24/05

Injection Volume: 1.0(uL) Dilution Factor: 4.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	1700	U
108-95-2	Phenol	1700	U
111-44-4	Bis(2-chloroethyl)ether	1700	U
95-57-8	2-Chlorophenol	1700	U
95-48-7	2-Methylphenol	1700	U
108-60-1	2,2'-oxybis(1-Chloropropane)	1700	U
98-86-2	Acetophenone	1800	D
106-44-5	4-Methylphenol	3300	U
621-64-7	N-Nitroso-di-N-propylamine	1700	U
67-72-1	Hexachloroethane	1700	U
98-95-3	Nitrobenzene	1700	U
78-59-1	Isophorone	1700	U
88-75-5	2-Nitrophenol	1700	U
105-67-9	2,4-Dimethylphenol	1700	U
111-91-1	Bis(2-chloroethoxy)methane	1700	U
120-83-2	2,4-Dichlorophenol	1700	U
91-20-3	Naphthalene	4700	D
106-47-8	4-Chloroaniline	1700	U
87-68-3	Hexachlorobutadiene	1700	U
105-60-2	Caprolactam	8000	D
59-50-7	4-Chloro-3-methylphenol	1700	U
91-57-6	2-Methylnaphthalene	21000	D
77-47-4	Hexachlorocyclopentadiene	1700	U
88-06-2	2,4,6-Trichlorophenol	1700	U
95-95-4	2,4,5-Trichlorophenol	1700	U
92-52-4	1,1'-Biphenyl	1900	D
91-58-7	2-Chloronaphthalene	1700	U
88-74-4	2-Nitroaniline	3300	U
131-11-3	Dimethylphthalate	1700	U
606-20-2	2,6-Dinitrotoluene	1700	U
208-96-8	Acenaphthylene	1700	U
99-09-2	3-Nitroaniline	3300	U
83-32-9	Acenaphthene	1700	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SIDE 3DL

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6925

Matrix: (soil/water) SOIL Lab Sample ID: 692503DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 692503DA66

Level: (low/med) LOW Date Received: 06/17/05

% Moisture: 20 decanted: (Y/N) N Date Extracted: 06/21/05

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/24/05

Injection Volume: 1.0(uL) Dilution Factor: 4.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	3300	U
100-02-7	4-Nitrophenol	3300	U
121-14-2	2,4-Dinitrotoluene	1700	U
132-64-9	Dibenzofuran	1700	U
84-66-2	Diethylphthalate	1700	U
7005-72-3	4-Chlorophenyl-phenylether	1700	U
86-73-7	Fluorene	2000	D
100-01-6	4-Nitroaniline	3300	U
534-52-1	4,6-Dinitro-2-methylphenol	3300	U
86-30-6	N-Nitrosodiphenylamine (1)	1700	U
101-55-3	4-Bromophenyl-phenylether	1700	U
118-74-1	Hexachlorobenzene	1700	U
1912-24-9	Atrazine	1700	U
87-86-5	Pentachlorophenol	3300	U
85-01-8	Phenanthrene	3700	D
120-12-7	Anthracene	1700	U
86-74-8	Carbazole	1700	U
84-74-2	Di-n-butylphthalate	1700	U
206-44-0	Fluoranthene	1700	U
129-00-0	Pyrene	1700	U
85-68-7	Butylbenzylphthalate	1700	U
91-94-1	3,3'-Dichlorobenzidine	1700	U
117-81-7	bis(2-ethylhexyl)Phthalate	1700	U
56-55-3	Benzo(a)anthracene	1700	U
218-01-9	Chrysene	1700	U
117-84-0	Di-n-octylphthalate	1700	U
205-99-2	Benzo(b)fluoranthene	1700	U
207-08-9	Benzo(k)fluoranthene	1700	U
50-32-8	Benzo(a)pyrene	1700	U
193-39-5	Indeno(1,2,3-cd)pyrene	1700	U
53-70-3	Dibenzo(a,h)anthracene	1700	U
191-24-2	Benzo(g,h,i)perylene	1700	U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SIDE 4

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6925

Matrix: (soil/water) SOIL Lab Sample ID: 692504

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 692504A66

Level: (low/med) LOW Date Received: 06/17/05

% Moisture: 19 decanted: (Y/N) N Date Extracted:06/21/05

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/23/05

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	410	U
108-95-2	Phenol	410	U
111-44-4	Bis(2-chloroethyl)ether	410	U
95-57-8	2-Chlorophenol	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	2,2'-oxybis(1-Chloropropane)	410	U
98-86-2	Acetophenone	1800	
106-44-5	4-Methylphenol	810	U
621-64-7	N-Nitroso-di-N-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
111-91-1	Bis(2-chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
91-20-3	Naphthalene	3700	
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
105-60-2	Caprolactam	5300	
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	17000	E
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	410	U
92-52-4	1,1'-Biphenyl	1700	
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	810	U
131-11-3	Dimethylphthalate	410	U
606-20-2	2,6-Dinitrotoluene	410	U
208-96-8	Acenaphthylene	410	U
99-09-2	3-Nitroaniline	810	U
83-32-9	Acenaphthene	410	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SIDE 4

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6925

Matrix: (soil/water) SOIL Lab Sample ID: 692504

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 692504A66

Level: (low/med) LOW Date Received: 06/17/05

% Moisture: 19 decanted: (Y/N) N Date Extracted:06/21/05

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/23/05

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	810	U
100-02-7	4-Nitrophenol	810	U
121-14-2	2,4-Dinitrotoluene	410	U
132-64-9	Dibenzofuran	570	
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
86-73-7	Fluorene	1700	
100-01-6	4-Nitroaniline	810	U
534-52-1	4,6-Dinitro-2-methylphenol	810	U
86-30-6	N-Nitrosodiphenylamine (1)	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
1912-24-9	Atrazine	410	U
87-86-5	Pentachlorophenol	810	U
85-01-8	Phenanthrene	3600	
120-12-7	Anthracene	410	U
86-74-8	Carbazole	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	410	U
129-00-0	Pyrene	410	U
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
117-81-7	bis(2-ethylhexyl)Phthalate	410	U
56-55-3	Benzo(a)anthracene	410	U
218-01-9	Chrysene	410	U
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenzo(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SIDE 4DL

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6925

Matrix: (soil/water) SOIL Lab Sample ID: 692504DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 692504DA66

Level: (low/med) LOW Date Received: 06/17/05

% Moisture: 19 decanted: (Y/N) N Date Extracted:06/21/05

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/24/05

Injection Volume: 1.0(uL) Dilution Factor: 4.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	1600	U
108-95-2	Phenol	1600	U
111-44-4	Bis(2-chloroethyl)ether	1600	U
95-57-8	2-Chlorophenol	1600	U
95-48-7	2-Methylphenol	1600	U
108-60-1	2,2'-oxybis(1-Chloropropane)	1600	U
98-86-2	Acetophenone	2500	D
106-44-5	4-Methylphenol	3300	U
621-64-7	N-Nitroso-di-N-propylamine	1600	U
67-72-1	Hexachloroethane	1600	U
98-95-3	Nitrobenzene	1600	U
78-59-1	Isophorone	1600	U
88-75-5	2-Nitrophenol	1600	U
105-67-9	2,4-Dimethylphenol	1600	U
111-91-1	Bis(2-chloroethoxy)methane	1600	U
120-83-2	2,4-Dichlorophenol	1600	U
91-20-3	Naphthalene	5100	D
106-47-8	4-Chloroaniline	1600	U
87-68-3	Hexachlorobutadiene	1600	U
105-60-2	Caprolactam	7900	D
59-50-7	4-Chloro-3-methylphenol	1600	U
91-57-6	2-Methylnaphthalene	22000	D
77-47-4	Hexachlorocyclopentadiene	1600	U
88-06-2	2,4,6-Trichlorophenol	1600	U
95-95-4	2,4,5-Trichlorophenol	1600	U
92-52-4	1,1'-Biphenyl	2400	D
91-58-7	2-Chloronaphthalene	1600	U
88-74-4	2-Nitroaniline	3300	U
131-11-3	Dimethylphthalate	1600	U
606-20-2	2,6-Dinitrotoluene	1600	U
208-96-8	Acenaphthylene	1600	U
99-09-2	3-Nitroaniline	3300	U
83-32-9	Acenaphthene	1600	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SIDE 4DL

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6925

Matrix: (soil/water) SOIL Lab Sample ID: 692504DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 692504DA66

Level: (low/med) LOW Date Received: 06/17/05

% Moisture: 19 decanted: (Y/N) N Date Extracted: 06/21/05

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/24/05

Injection Volume: 1.0(uL) Dilution Factor: 4.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	3300	U
100-02-7	4-Nitrophenol	3300	U
121-14-2	2,4-Dinitrotoluene	1600	U
132-64-9	Dibenzofuran	1600	U
84-66-2	Diethylphthalate	1600	U
7005-72-3	4-Chlorophenyl-phenylether	1600	U
86-73-7	Fluorene	2500	D
100-01-6	4-Nitroaniline	3300	U
534-52-1	4,6-Dinitro-2-methylphenol	3300	U
86-30-6	N-Nitrosodiphenylamine (1)	1600	U
101-55-3	4-Bromophenyl-phenylether	1600	U
118-74-1	Hexachlorobenzene	1600	U
1912-24-9	Atrazine	1600	U
87-86-5	Pentachlorophenol	3300	U
85-01-8	Phenanthrene	4700	D
120-12-7	Anthracene	1600	U
86-74-8	Carbazole	1600	U
84-74-2	Di-n-butylphthalate	1600	U
206-44-0	Fluoranthene	1600	U
129-00-0	Pyrene	1600	U
85-68-7	Butylbenzylphthalate	1600	U
91-94-1	3,3'-Dichlorobenzidine	1600	U
117-81-7	bis(2-ethylhexyl)Phthalate	1600	U
56-55-3	Benzo(a)anthracene	1600	U
218-01-9	Chrysene	1600	U
117-84-0	Di-n-octylphthalate	1600	U
205-99-2	Benzo(b)fluoranthene	1600	U
207-08-9	Benzo(k)fluoranthene	1600	U
50-32-8	Benzo(a)pyrene	1600	U
193-39-5	Indeno(1,2,3-cd)pyrene	1600	U
53-70-3	Dibenzo(a,h)anthracene	1600	U
191-24-2	Benzo(g,h,i)perylene	1600	U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

BOTTOM

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6925

Matrix: (soil/water) SOIL Lab Sample ID: 692505

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 692505A66

Level: (low/med) LOW Date Received: 06/17/05

% Moisture: 25 decanted: (Y/N) N Date Extracted: 06/21/05

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/23/05

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	440	U
108-95-2	Phenol	440	U
111-44-4	Bis(2-chloroethyl)ether	440	U
95-57-8	2-Chlorophenol	440	U
95-48-7	2-Methylphenol	440	U
108-60-1	2,2'-oxybis(1-Chloropropane)	440	U
98-86-2	Acetophenone	7900	E
106-44-5	4-Methylphenol	880	U
621-64-7	N-Nitroso-di-N-propylamine	440	U
67-72-1	Hexachloroethane	440	U
98-95-3	Nitrobenzene	440	U
78-59-1	Isophorone	440	U
88-75-5	2-Nitrophenol	440	U
105-67-9	2,4-Dimethylphenol	440	U
111-91-1	Bis(2-chloroethoxy)methane	440	U
120-83-2	2,4-Dichlorophenol	440	U
91-20-3	Naphthalene	22000	E
106-47-8	4-Chloroaniline	440	U
87-68-3	Hexachlorobutadiene	440	U
105-60-2	Caprolactam	29000	E
59-50-7	4-Chloro-3-methylphenol	440	U
91-57-6	2-Methylnaphthalene	90000	E
77-47-4	Hexachlorocyclopentadiene	440	U
88-06-2	2,4,6-Trichlorophenol	440	U
95-95-4	2,4,5-Trichlorophenol	440	U
92-52-4	1,1'-Biphenyl	5900	
91-58-7	2-Chloronaphthalene	440	U
88-74-4	2-Nitroaniline	880	U
131-11-3	Dimethylphthalate	440	U
606-20-2	2,6-Dinitrotoluene	440	U
208-96-8	Acenaphthylene	440	U
99-09-2	3-Nitroaniline	880	U
83-32-9	Acenaphthene	3200	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

BOTTOM

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6925

Matrix: (soil/water) SOIL Lab Sample ID: 692505

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 692505A66

Level: (low/med) LOW Date Received: 06/17/05

% Moisture: 25 decanted: (Y/N) N Date Extracted: 06/21/05

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/23/05

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	880	U
100-02-7	4-Nitrophenol	880	U
121-14-2	2,4-Dinitrotoluene	440	U
132-64-9	Dibenzofuran	2200	
84-66-2	Diethylphthalate	440	U
7005-72-3	4-Chlorophenyl-phenylether	440	U
86-73-7	Fluorene	4300	
100-01-6	4-Nitroaniline	880	U
534-52-1	4,6-Dinitro-2-methylphenol	880	U
86-30-6	N-Nitrosodiphenylamine (1)	440	U
101-55-3	4-Bromophenyl-phenylether	440	U
118-74-1	Hexachlorobenzene	440	U
1912-24-9	Atrazine	440	U
87-86-5	Pentachlorophenol	880	U
85-01-8	Phenanthrene	17000	E
120-12-7	Anthracene	440	U
86-74-8	Carbazole	440	U
84-74-2	Di-n-butylphthalate	440	U
206-44-0	Fluoranthene	440	U
129-00-0	Pyrene	1400	
85-68-7	Butylbenzylphthalate	440	U
91-94-1	3,3'-Dichlorobenzidine	440	U
117-81-7	bis(2-ethylhexyl)Phthalate	440	U
56-55-3	Benzo(a)anthracene	440	U
218-01-9	Chrysene	440	U
117-84-0	Di-n-octylphthalate	440	U
205-99-2	Benzo(b)fluoranthene	440	U
207-08-9	Benzo(k)fluoranthene	440	U
50-32-8	Benzo(a)pyrene	440	U
193-39-5	Indeno(1,2,3-cd)pyrene	440	U
53-70-3	Dibenzo(a,h)anthracene	440	U
191-24-2	Benzo(g,h,i)perylene	440	U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

BOTTOMDL

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6925

Matrix: (soil/water) SOIL Lab Sample ID: 692505DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 692505DA66

Level: (low/med) LOW Date Received: 06/17/05

% Moisture: 25 decanted: (Y/N) N Date Extracted:06/21/05

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/24/05

Injection Volume: 1.0(uL) Dilution Factor: 30.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	13000	U
108-95-2	Phenol	13000	U
111-44-4	Bis(2-chloroethyl)ether	13000	U
95-57-8	2-Chlorophenol	13000	U
95-48-7	2-Methylphenol	13000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	13000	U
98-86-2	Acetophenone	13000	U
106-44-5	4-Methylphenol	26000	U
621-64-7	N-Nitroso-di-N-propylamine	13000	U
67-72-1	Hexachloroethane	13000	U
98-95-3	Nitrobenzene	13000	U
78-59-1	Isophorone	13000	U
88-75-5	2-Nitrophenol	13000	U
105-67-9	2,4-Dimethylphenol	13000	U
111-91-1	Bis(2-chloroethoxy)methane	13000	U
120-83-2	2,4-Dichlorophenol	13000	U
91-20-3	Naphthalene	27000	D
106-47-8	4-Chloroaniline	13000	U
87-68-3	Hexachlorobutadiene	13000	U
105-60-2	Caprolactam	34000	D
59-50-7	4-Chloro-3-methylphenol	13000	U
91-57-6	2-Methylnaphthalene	110000	D
77-47-4	Hexachlorocyclopentadiene	13000	U
88-06-2	2,4,6-Trichlorophenol	13000	U
95-95-4	2,4,5-Trichlorophenol	13000	U
92-52-4	1,1'-Biphenyl	13000	U
91-58-7	2-Chloronaphthalene	13000	U
88-74-4	2-Nitroaniline	26000	U
131-11-3	Dimethylphthalate	13000	U
606-20-2	2,6-Dinitrotoluene	13000	U
208-96-8	Acenaphthylene	13000	U
99-09-2	3-Nitroaniline	26000	U
83-32-9	Acenaphthene	13000	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

BOTTOMDL

Lab Name: COMPUCHEM Method: 8270C

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 6925

Matrix: (soil/water) SOIL Lab Sample ID: 692505DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 692505DA66

Level: (low/med) LOW Date Received: 06/17/05

% Moisture: 25 decanted: (Y/N) N Date Extracted:06/21/05

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/24/05

Injection Volume: 1.0(uL) Dilution Factor: 30.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	26000	U
100-02-7	4-Nitrophenol	26000	U
121-14-2	2,4-Dinitrotoluene	13000	U
132-64-9	Dibenzofuran	13000	U
84-66-2	Diethylphthalate	13000	U
7005-72-3	4-Chlorophenyl-phenylether	13000	U
86-73-7	Fluorene	13000	U
100-01-6	4-Nitroaniline	26000	U
534-52-1	4,6-Dinitro-2-methylphenol	26000	U
86-30-6	N-Nitrosodiphenylamine (1)	13000	U
101-55-3	4-Bromophenyl-phenylether	13000	U
118-74-1	Hexachlorobenzene	13000	U
1912-24-9	Atrazine	13000	U
87-86-5	Pentachlorophenol	26000	U
85-01-8	Phenanthrene	18000	D
120-12-7	Anthracene	13000	U
86-74-8	Carbazole	13000	U
84-74-2	Di-n-butylphthalate	13000	U
206-44-0	Fluoranthene	13000	U
129-00-0	Pyrene	13000	U
85-68-7	Butylbenzylphthalate	13000	U
91-94-1	3,3'-Dichlorobenzidine	13000	U
117-81-7	bis(2-ethylhexyl)Phthalate	13000	U
56-55-3	Benzo(a)anthracene	13000	U
218-01-9	Chrysene	13000	U
117-84-0	Di-n-octylphthalate	13000	U
205-99-2	Benzo(b)fluoranthene	13000	U
207-08-9	Benzo(k)fluoranthene	13000	U
50-32-8	Benzo(a)pyrene	13000	U
193-39-5	Indeno(1,2,3-cd)pyrene	13000	U
53-70-3	Dibenzo(a,h)anthracene	13000	U
191-24-2	Benzo(g,h,i)perylene	13000	U

(1) - Cannot be separated from Diphenylamine

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: CompuChem

Project Name: 900 S. Hughes

Sample Information and Analytical Results	
Sample Identification	Side 1
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	06/17/05
Date Received	06/21/05
Date Extracted	06/17/05
Date Analyzed	06/28/05
Dry Weight	78
Dilution Factor	10
C_5-C_8 Aliphatics**	< 10 (mg/Kg)
C_9-C_{12} Aliphatics**	25 (mg/Kg)
C_9-C_{10} Aromatics**	29 (mg/Kg)
Surrogate % Recovery - PID	160***
Surrogate % Recovery - FID	220***

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

***= High surrogate recovery due to matrix interference

Lab Info: g349-106-2a

Reviewed By: [signature]

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: CompuChem

Project Name: 900 S. Hughes

Sample Information and Analytical Results	
Sample Identification	Side 1
Sample Matrix	Soil
Date Collected	06/17/05
Date Received	06/21/05
Date Extracted	06/24/05
Date Analyzed	07/01/05
Dry Weight	78.1
Dilution Factor	50:10
C_9-C_{18} Aliphatics*	14000 (mg/Kg)
C_{19}-C_{36} Aliphatics*	1700 (mg/Kg)
C_{11}-C_{22} Aromatics*	4500 (mg/Kg)
Aliphatic Surrogate % Recovery	NA
Aromatic Surrogate % Recovery	NA
Fractionation Surrogate 1 % Recovery	NA

Comments:

* = Excludes any surrogates or internal standards.

NA = Not applicable, surrogate diluted out.

Lab info: G349-106-2C

Reviewed By:

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: CompuChem

Project Name: 900 S. Hughes

Sample Information and Analytical Results	
Sample Identification	Side 2
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	06/17/05
Date Received	06/21/05
Date Extracted	06/17/05
Date Analyzed	06/27/05
Dry Weight	80
Dilution Factor	1
C_5-C_8 Aliphatics**	< 10 (mg/Kg)
C_9-C_{12} Aliphatics**	< 10 (mg/Kg)
C_9-C_{10} Aromatics**	< 10 (mg/Kg)
Surrogate % Recovery - PID	120
Surrogate % Recovery - FID	120

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g349-106-3a

Reviewed By: MO

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: CompuChem

Project Name: 900 S. Hughes

Sample Information and Analytical Results	
Sample Identification	Side 2
Sample Matrix	Soil
Date Collected	06/17/05
Date Received	06/21/05
Date Extracted	06/24/05
Date Analyzed	07/01/05
Dry Weight	80
Dilution Factor	1:1
C_9-C_{18} Aliphatics*	86 (mg/Kg)
C_{19}-C_{36} Aliphatics*	17 (mg/Kg)
C_{11}-C_{22} Aromatics*	20 (mg/Kg)
Aliphatic Surrogate % Recovery	94
Aromatic Surrogate % Recovery	90
Fractionation Surrogate 1 % Recovery	53

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G349-106-3C

Reviewed By: MA

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: CompuChem

Project Name: 900 S. Hughes

Sample Information and Analytical Results	
Sample Identification	Side 3
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	06/17/05
Date Received	06/21/05
Date Extracted	06/17/05
Date Analyzed	06/28/05
Dry Weight	82
Dilution Factor	1
C_5-C_8 Aliphatics**	12 (mg/Kg)
C_9-C_{12} Aliphatics**	51 (mg/Kg)
C_9-C_{10} Aromatics**	92 (mg/Kg)
Surrogate % Recovery - PID	300***
Surrogate % Recovery - FID	490***

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

***= High surrogate recovery due to matrix interference

Lab Info: g349-106-4a

Reviewed By: MW

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: CompuChem

Project Name: 900 S. Hughes

Sample Information and Analytical Results	
Sample Identification	Side 3
Sample Matrix	Soil
Date Collected	06/17/05
Date Received	06/21/05
Date Extracted	06/24/05
Date Analyzed	07/06/05
Dry Weight	82.4
Dilution Factor	2:1
C_9-C_{18} Aliphatics*	2700 (mg/Kg)
C_{19}-C_{36} Aliphatics*	320 (mg/Kg)
C_{11}-C_{22} Aromatics*	840 (mg/Kg)
Aliphatic Surrogate % Recovery	122
Aromatic Surrogate % Recovery	80
Fractionation Surrogate 1 % Recovery	61

Comments:

* = Excludes any surrogates or internal standards.

840
92

Lab info: G349-106-4C

Reviewed By:

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: CompuChem

Project Name: 900 S. Hughes

Sample Information and Analytical Results	
Sample Identification	Side 4
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	06/17/05
Date Received	06/21/05
Date Extracted	06/17/05
Date Analyzed	06/28/05
Dry Weight	80
Dilution Factor	1
C_5-C_8 Aliphatics**	< 10 (mg/Kg)
C_9-C_{12} Aliphatics**	45 (mg/Kg)
C_9-C_{10} Aromatics**	72 (mg/Kg)
Surrogate % Recovery - PID	250***
Surrogate % Recovery - FID	450***

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

***= High surrogate recovery due to matrix interference

Lab Info: g349-106-5a

Reviewed By: MA

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: CompuChem

Project Name: 900 S. Hughes

Sample Information and Analytical Results	
Sample Identification	Side 4
Sample Matrix	Soil
Date Collected	06/17/05
Date Received	06/21/05
Date Extracted	06/24/05
Date Analyzed	07/06/05
Dry Weight	80.5
Dilution Factor	4:1
C_9-C_{18} Aliphatics*	2700 (mg/Kg)
C_{19}-C_{36} Aliphatics*	390 (mg/Kg)
C_{11}-C_{22} Aromatics*	980 (mg/Kg)
Aliphatic Surrogate % Recovery	140
Aromatic Surrogate % Recovery	86
Fractionation Surrogate 1 % Recovery	54

Comments:

* = Excludes any surrogates or internal standards.

980
72
1355-2

Lab Info: G349-106-5C

Reviewed By:

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: CompuChem

Project Name: 900 S. Hughes

Sample Information and Analytical Results	
Sample Identification	Bottom
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	06/17/05
Date Received	06/21/05
Date Extracted	06/17/05
Date Analyzed	06/28/05
Dry Weight	100
Dilution Factor	10
C_5-C_8 Aliphatics**	< 10 (mg/Kg)
C_9-C_{12} Aliphatics**	18 (mg/Kg)
C_9-C_{10} Aromatics**	21 (mg/Kg)
Surrogate % Recovery - PID	150***
Surrogate % Recovery - FID	200***

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

***= High surrogate recovery due to matrix interference

Lab Info: g349-106-1a

Reviewed By: MA

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: CompuChem

Project Name: 900 S. Hughes

Sample Information and Analytical Results	
Sample Identification	Bottom
Sample Matrix	Soil
Date Collected	06/17/05
Date Received	06/21/05
Date Extracted	06/24/05
Date Analyzed	07/01/05
Dry Weight	74.6
Dilution Factor	10:4
C_9-C_{18} Aliphatics*	7100 (mg/Kg)
C_{19}-C_{36} Aliphatics*	1200 (mg/Kg)
C_{11}-C_{22} Aromatics*	4000 (mg/Kg)
Aliphatic Surrogate % Recovery	NA
Aromatic Surrogate % Recovery	64
Fractionation Surrogate 1 % Recovery	100

Comments:

* = Excludes any surrogates or internal standards.

NA = Not applicable, surrogate diluted out.

Lab info: G349-106-1C

Reviewed By: MC

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 06/08/05 PID Initial Calibration Date: 06/08/05

Calibration Ranges and Limits

Range	MDL (07/15/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_5-C_8 Aliphatics	4.4	14	100	10
C_9-C_{12} Aliphatics	3.4	11	100	10
C_9-C_{10} Aromatics	0.13	0.41	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	%RSD or CCC	Method of Quantitation
C_5-C_8 Aliphatics	40	3.6	Calibration Factor
	1000		
	2000		
	3000		
	4000		
C_9-C_{12} Aliphatics	10	0.988	Linear Regression
	250		
	500		
	750		
	1000		
C_9-C_{10} Aromatics	10	12.9	Calibration Factor
	250		
	500		
	750		
	1000		

Calibration Check Date: 06/27/05

Calibration Check

Range	Levels (µg/L)	Levels (mg/Kg)	RPD
C_5-C_8 Aliphatics	2000	200	12.5
C_9-C_{12} Aliphatics	500	50	-5.8
C_9-C_{10} Aromatics	500	50	0.1

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

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

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 03/14/05

Calibration Ranges and Limits

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_9-C_{18} Aliphatics	3.84	12.2	100	10
C_{19}-C_{36} Aliphatics	0.57	1.8	100	10
C_{11}-C_{22} Aromatics	4.54	14.4	100	10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C_9-C_{18} Aliphatics	6	8.10	Calibration Factor
	30		
	60		
	120		
	240		
C_{19}-C_{36} Aliphatics	8	5.1	Calibration Factor
	40		
	80		
	160		
	320		
C_{11}-C_{22} Aromatics	17	14.7	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 07/01/05

Calibration Check

Range	Levels (µg/mL)	RPD
C_9-C_{18} Aliphatics	120	11.1
C_{19}-C_{36} Aliphatics	160	-1.1
C_{11}-C_{22} Aromatics	340	3.1

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 07/05/05

Calibration Ranges and Limits

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_9-C_{18} Aliphatics	3.84	12.2	100	10
C_{19}-C_{36} Aliphatics	0.57	1.8	100	10
C_{11}-C_{22} Aromatics	4.54	14.4	100	10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C_9-C_{18} Aliphatics	6	16.80	Calibration Factor
	30		
	60		
	120		
	240		
C_{19}-C_{36} Aliphatics	8	9.4	Calibration Factor
	40		
	80		
	160		
	320		
C_{11}-C_{22} Aromatics	17	16.4	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 07/06/05

Calibration Check

Range	Levels (µg/mL)	RPD
C_9-C_{18} Aliphatics	120	21.1
C_{19}-C_{36} Aliphatics	160	3.3
C_{11}-C_{22} Aromatics	340	-2.1

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

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

List of Reporting Abbreviations and Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantitation Limit

DF = Dilution Factor

Dup = Duplicate

E = Estimated concentration, exceeds calibration range.

J = Estimated concentration, below calibration range and above MDL

LCS(D) = Laboratory Control Spike (Duplicate)

MDL = Method Detection Limit

MS(D) = Matrix Spike (Duplicate)

PQL = Practical Quantitation Limit

RL = Reporting Limit

RPD = Relative Percent Difference

mg/kg = milligram per kilogram, ppm, parts per million

ug/kg = micrograms per kilogram, ppb, parts per billion

mg/L = milligram per liter, ppm, parts per million

ug/L = micrograms per liter, ppb, parts per billion

% Rec = Percent Recovery

% soilds = Percent Solids

Special Notes:

1) Metals and mercury samples are digested with a hot block, see the standard operating procedure document for details.

2) Uncertainty for all reported data is less than or equal to 30 percent.

G349-106 S 12054

SUBCONTRACT CHAIN-OF-CUSTODY RECORD

COMPUCHEM
a division of Liberty Analytical Corp.

501 Madison Avenue
Cary, NC 27513
1-800-833-5097

Project Name: 900 S. Hughes
TAT: 5+D
Report style: STD.
Disk requirement: NA

Samples shipped to: Paradigm
Contact:
Address:
Phone: ( )
Project Locale (state)

CompuChem point-of-contact: (4) Diane Byrd
Phone: (919) 379-4100 X 4009
Fax: (919) 379- 4050
Sampling complete? (Y) or N (see Note 1)
Project-specific (PS) or Batch (B) QC? _____

BOX #1 1. Surface Water 2. Ground Water 3. Leachate 4. Rinsate 5. Soil / Sediment / Sludge 6. Trip Blank 7. Oil 8. Waste 9. Other _____

BOX #2 A. HCl + Ice B. HNO_3 + Ice C. NaOH + Ice D. H_2SO_4 + Ice E. Unpreserved F. Ice Only G. Other _____ H. $NaHSO_4$ + Ice I. ZnAc+NaOH + Ice J. Methanol

BOX #3 F- Filtered U- Unfiltered

BOX #4 H- High M- Medium L- Low

BOX #5 C- CLP T- TCLP S- SW-846 W- CWA 600-series O- Other _____

Sample ID	Date / Year	Time	Box #1 Matrix	Box #2 Preservative	Box #3 Filtered / Unfiltered	Box #4 Expected Conc.	Box #5 Method	# of Bottles	Use for Lab QC (MS or DUP)	PARAMETERS: MADEP VPH/EPH	CCN	Remarks / Comments (see Notes 2 & 3)
Bottom	6/17	4:00	SO	-			O	2		↓	6944001	
Side 1		4:00		-			O	2		↓	6944002	
Side 2		4:20		-			O	2		↓	6944003	
Side 3		4:30		-			O	2		↓	6944004	
Side 4		4:40		-			O	2		↓	6944005	

Clients Special Instructions: Custody Tape Intact Temperature 0.2 °C

Lab: Received in good condition? Y or N Describe any problems:

#1 Relinquished by:(sig) Lisa Carver	Date: 6-20-05	#2 Relinquished by:(sig)	Date:
Company Name: Compuchem	Time: 4:40	Company Name:	Time:
#1 Received by:(sig) Julie Johnson	Date: 6/21/05	#2 Received by:(sig)	Date:
Company Name: Paradigm Labs	Time: 1016	Company Name:	Time:

Relinquished by:(sig)	Date:
Company Name:	Time:
#2 Received by:(sig)	Date:
Company Name:	Time:

Note (1) If "N" lab should batch samples to await remainder of project - maximizing batch size and minimizing QC ratio, if "Y" lab should begin processing batches now
Note (2) Samples should be stored 60 days after date report mailed at no extra charge
Note (3) All lab copies of data should be retained for a minimum of 3 years
Note (4) Please call point-of-contact to verify receipt of samples

Revision 0 2-10-99

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. Certification #481 S.C. Certification #99029

EAST COAST
Environmental, P.A.

October 10, 2005

Mr. Bob Davies
NCDENR-RRO
UST Section
1628 Mail Service Center
Raleigh, NC 27699-1628

Re: Phase I Limited Site Assessment prepared in Response to the
Removal and Cleanup of Noncommercial UST Systems formerly located at:
832 S. Hughes Street, and
900 S. Hughes Street
Apex, Wake County, North Carolina
NCDENR-Incident #s 26879 and 26880

Dear Bob,

This correspondence is to present one copy each of ECE's reports entitled "Phase I Limited Site Assessment" for the above referenced project sites.

We appreciate the opportunity to be of service in the completion of these projects. Should you have any questions, comments, or require additional information, please feel free to contact me at your earliest opportunity.

Cordially,
East Coast Environmental, P.A.

Tom Will
Project Manager

[redacted] (919) 772-0268 Fax (919) 772-0468

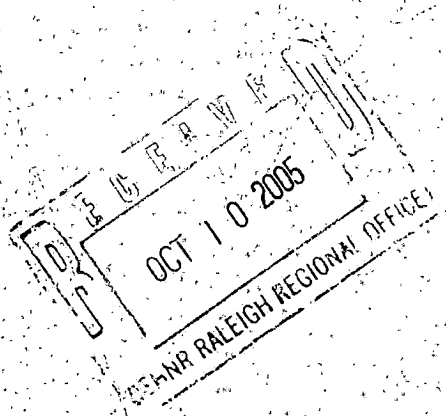
EAST COAST
Environmental, P.A.

PHASE I LIMITED SITE ASSESSMENT
PREPARED IN RESPONSE TO A LEAKING HEATING OIL UNDERGROUND STORAGE TANK FORMERLY LOCATED AT:
900 S. HUGHES STREET
RALEIGH, WAKE COUNTY, NORTH CAROLINA
GROUNDWATER INCIDENT NUMBER: 26880

October 7, 2005

Responsible Party:
Mildred Riggsbee
900 S. Hughes Street
Apex, North Carolina 27502
(919) 362-6278

Current Property Owner:
Mildred Riggsbee
900 S. Hughes Street
Apex, North Carolina 27502
(919) 362-6278



Consultant:
East Coast Environmental, P.A.
3709 Junction Blvd.
Raleigh, North Carolina 27603
(919) 772-0268

Release Discovery Date: June 17, 2005
Cause of Release: Leaking Home Heating Oil UST System
UST Size and Contents: (1) 270-Gallon Heating Oil UST
Latitude: 35° 43.029, Longitude: 78° 50.914

List of Appendices

Section A Figures

Figure 1 Topographic Site Location Map
Figure 2 Adjacent Property Ownership/Receptor Location Map
Figure 3 Site Map with Former UST and Soil Sample Locations
Figure 4 Site Map with Monitoring Well Location

Section B Tables/Well Construction Record

Table 1 UST Information/Ownership
Table 2 Adjacent Property Ownership
Table 3 Summary of Analytical Data – Soil
Table 4 Summary of Analytical Data – Groundwater
Table 5 Summary of Well Construction Information
Monitoring Well Construction Record

Section C Laboratory Reports

Site History

The subject property, (hereinafter referred to as the "Site") is located at 900 S. Hughes Street, Apex, Wake County, North Carolina (See **Section A, Figure 1** for Site location). The Site currently contains a single family home.

The subject Underground Storage Tank (UST) was 270-gallons in capacity and installed in order to store heating oil for use as fuel for the home heating system. See **Section A, Figure 3** for former location of UST in relation to the Site. The release was discovered during UST removal activities completed on June 1, 2005 when a soil sample collected from immediately underneath the subject tank was subsequently analyzed for Total Petroleum Hydrocarbons (TPH) by EPA Method 3350 and found to contain high boiling point TPH at a level of 10,000-mg/kg. After removal, the subject UST was inspected for signs of structural failure. It was found to be in poor condition with numerous holes across the bottom.

In response, Creekside Land Development of Zebulon, NC mobilized to the Site on June 17, 2005 in order to excavate and dispose of approximately 50.4 tons of petroleum contaminated soil from around the former UST area. The final limits of this excavation measured approximately 12-feet in length by 10-feet in width by 11-feet in depth. See **Section A, Figure 3** for approximate final dimensions of petroleum contaminated soils excavation in relation to the Site.

At the conclusion of UST and petroleum contaminated soil removal activities, a series of soil samples were reportedly collected from the final limits of the excavations, the analytical results of which are discussed below.

In response, the North Carolina Department of Environment and Natural Resources (NCDENR) issued a July 25, 2005 Notice of Regulatory Requirements (NRR) letter to Ms. Riggsbee requiring her to comply with the reporting requirements of 15A NCAC 2L .0115(C)(4).

The remaining sections of this report have been compiled to achieve compliance with the requirements of 15A NCAC 2L .0115.

Limited Site Assessment Report

A. Site Identification

DATE OF REPORT: October 7, 2005
Facility I.D.: N/A UST Incident Number (if known):26880
Site Name: 900 S. Hughes Street
Site Location: 900 S. Hughes Street
Nearest City/Town: Apex County: Wake

UST Owner: Mildred Riggsbee
Address: 900 S. Hughes Street, Apex, NC 27502 Phone: (919) 362-6278

UST Operator: Mildred Riggsbee
Address: 900 S. Hughes Street, Apex, NC 27502 Phone: (919) 362-6278

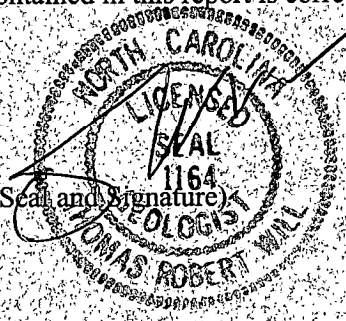
Property Owner: Mildred Riggsbee
Address: 900 S. Hughes Street, Raleigh, NC 27502 Phone: (919) 362-6278

Property Occupants: Mildred Riggsbee
Address: 900 S. Hughes Street, Apex, NC 27502 Phone: (919) 362-6278

Consultant/Contractor: East Coast Environmental, P.A.
Address: 3709 Junction Blvd., Raleigh, NC 27603 Phone: (919) 772-0268

Release Information
Date Discovered: June 1, 2005
Latitude: 35° 42.028 **Longitude**: 78° 50.873
Estimated Quantity of Release: unknown
Cause of Release: Leaking UST
Source of Release (e.g., Piping/UST): 270-gallon UST
Sizes and contents of UST system(s) from which the release occurred: (1) 270-gallon heating oil UST

I, Thomas R. Will a Licensed Geologist for East Coast Environmental, P.A. 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. Risk Characterization

Submit the following questionnaire in its entirety. Answer all questions completely. Attach additional pages as needed to fully explain answers. Base answers/explanations on information known or required to be obtained during the Limited Site Assessment.

NOTE: *Source area means point of release from a UST system.*

Limited Site Assessment Risk Classification and Land Use Form

Part I – Groundwater/Surface Water/Vapor Impacts

High Risk

1. Has the release contaminated any water supply well including any well used for non-drinking purposes? ☐YES ☒NO
2. Is a water supply well used for drinking water located within 1,000 feet of the source area of the release? ☒YES ☐NO
3. Is a water supply well not used for drinking water (e.g., irrigation, washing cars, industrial cooling water, filling swimming pools) located within 250 feet of the source area of the release? ☐YES ☒NO
4. Does groundwater within 500 feet of the source area of the release have the potential for future use (there is no other source of water supply other than the groundwater)? ☐YES ☒NO
5. Do vapors from the release pose a threat of explosion because of accumulation of the vapors in a confined space or pose any other serious threat to public health, public safety or the environment? ☐YES ☒NO

   If yes, describe. _____

6. Are there any other factors that would cause the release to pose an imminent danger to public health, public safety, or the environment? ☐YES ☒NO

   If yes, describe. _____

Intermediate Risk

6. Is a surface water body located within 500 feet of the source area of the release? ☐YES ☒NO

   If **YES**, does the maximum groundwater contaminant concentration exceed the surface water quality standards and criteria found in 15A NCAC 2B .0200 by a factor of 10? ☐YES ☒NO

7. Is the source area of the release located within an approved or planned wellhead protection area as defined in 42 USC 300h-7(e)? ☐YES ☒NO

   If yes, describe.

8. Is the release located in the Coastal Plain physiographic region as designated on a map entitled "Geology of North Carolina" published by the Department in 1985? ☐YES ☒NO

   If **YES**, is the source area of the release located in an area in which there is recharge to an unconfined or semi-confined deeper aquifer that is being used or may be used as a source of drinking water? ☐YES ☒NO

   If **YES**, describe. _____

   Do the levels of groundwater contamination for any contaminant exceed the gross contamination levels (see Table 9) established by the Department? ☐YES ☒NO

Part II - Land Use

Property Containing Source Area of Release

The questions below pertain to the property containing the source area of the release.

1. Does the property contain one or more primary or secondary residences (permanent or temporary)? ☒YES ☐NO
   Describe. Yes, the property is occupied by a single family residence

   Does the property contain a school, daycare center, hospital, playground, park, recreation area, church, nursing home, or other place of public assembly? ☐YES ☒NO
   Describe.

2. Does the property contain a commercial (e.g., retail, warehouse, office/business space, etc.) or industrial (e.g., manufacturing, utilities, industrial research and development, chemical/petroleum bulk storage, etc.) enterprise, an inactive commercial or industrial enterprise, or is the land undeveloped? ☐YES ☒NO
   Describe. The property is currently occupied by a single family residence.

   Do children visit the property? ☒YES ☐NO
   Explain. While no children currently live at the subject Site, they can visit the property as guests of the occupants.

   Is access to the property reliably restricted consistent with its use (e.g., by fences, security personnel or both)? ☐YES ☒NO
   Explain. Access to the property is not restricted by fences.

3. Do pavement, buildings, or other structures cap the contaminated soil? ☐YES ☒NO
   Describe. The area where the release was discovered is finished with grass.

   If yes, what mechanisms are in place or can be put into place to ensure that the contaminated soil will remain capped in the foreseeable future?

4. What is the zoning status of the property? The Site is zoned by the Town of Apex as RA, (Residential/Agricultural) which is meant for residential and/or light agricultural uses.

5. Is the use of the property likely to change in the next 20 years? ☒YES ☐NO
   Explain. The property is currently under consideration for residential development.

Property Surrounding Source Area of Release

The questions below pertain to the area within 1,500 feet of the source area of the release (excludes property containing source area of the release):

1. What is the distance from the source area of the release to the **nearest** primary or secondary residence (permanent or temporary)? The nearest offsite private residence is located approximately 150 feet west of the release area.

2. What is the distance from the source area of the release to the **nearest** school, daycare center, hospital, playground, park, recreation area, church, nursing home or other place of public assembly? The nearest place of public assembly is located approximately 650-feet west of the release area.

3. What is the zoning status of properties in the surrounding area? The immediately surrounding properties surrounding the Site are all zoned by the Town of Apex as either "RA" Residential/Agricultural, "O/I" (Office/Institutional) or "TF" (Tech/Flex) See **Figure 2**.

4. Briefly characterize the use and activities of the land in the surrounding area. The surrounding area within 1,000-feet of the source area is used for residential and business purposes.

C. Receptor Information

1. Water Supply Wells (Complete and attach Table B-5 and attach map showing well locations)

ECE completed a walkthrough of all properties located within a 1,000-foot radius of the Site. Two water supply wells were found to be located within a 1,000-foot radius of the release area. One well is located approximately 50 feet east of the former UST area and is owned by the Gertrude Perry Family Farm c/o Ms. Riggsbee. This well has not been in use since the 1950's and can easily be abandoned in order to remove it from consideration. The second well is located approximately 950 feet east of the release area and is still in use. This well is also owned by the Gertrude Perry Family Farm c/o Ms. Mildred Riggsbee. See **Figure 2** for well locations and **Section B, Table 5** for supply well construction information.

2. Public Water Supplies

Are public water supplies available within 1,500 feet of the source area of the release? ☒**YES** ☐**NO**
If yes, where is the location of the nearest public water lines and the source(s) of the public water supply. (indicate on map) Describe.

The Town of Apex supplies water to all properties located within a 1,500-feet radius of the Site. See **Figure 2** for water supply lines in relation to the Site and neighboring properties.

3. Surface Water

Identify all surface water bodies (e.g., ditch, pond, stream, lake, river) within 500-feet of the source area of the release. This information must be shown on the USGS topographic map.

The closest surface water body is an unnamed pond located approximately 550 feet northeast of the source area. See **Section A, Figure 2.**

4. Wellhead Protection Areas

Identify all planned or approved wellhead protection areas (e.g., ditch, pond, stream, lake, river) within 1,500 feet of the source area of the release. This information must be shown on the USGS topographic map. Wellhead protection areas are defined in 42 USC 300h-7(e).

On September 28, 2005, ECE reviewed the NCDENR-Public Water Supply-Wellhead Protection Program files for the presence of wellhead protection areas within 1,500-feet of the Site. None were found to be located within 1,500-feet of the source area.

5. Describe Deep Aquifers in the Coastal Plain Physiographic Region

The Site is not located within the Coastal Plain Physiographic Region as defined by the Geologic Map Of North Carolina, 1985, published by the *Department of Natural Resources and Community Development, Division of Land Resources, North Carolina Geologic Survey.*

6. Describe Subsurface Structures

There are no subsurface structures located in close proximity to the former UST area. No nearby storm water catch basins or basements were noted in close proximity to the former UST area.

7. Property Owners and Occupants

Section B, Table 2 provides a listing the names and addresses of property owners and occupants within or contiguous to the area containing contamination and all property owners and occupants within or contiguous to the area where the contamination is expected to migrate.

Property ownership information was obtained through the Wake County GIS Department. The Site itself is owned by the Gertrude Perry Family Farm c/o Mildred Riggsbee (Pin # 0741567374). The property immediately east, of the Site is owned by Paul Satterwhite Custom Homes (and occupied by a mobile home (Pin # 0741555707). The property immediately south of the Site is owned and occupied by the Garland Norris Company (Pin # 0741454467). The property west of the Site is owned by King Investment Properties and is currently occupied by several soccer fields (Pin # 0741465131). Finally, the property immediately across S. Hughes Street and north of the Site is owned Rex Hospital and occupied by the Rex Nursing Care Center (Pin # 0741465131).

Zoning information for the Site and most surrounding properties was acquired through the Town of Apex. The Site itself is zoned as "RA" (Residential/Agricultural) while the immediately surrounding properties surrounding are all zoned by the Town of Apex as either "RA" (Residential/Agricultural), "O/I" (Office/Institutional) or "TF" (Tech/Flex) See **Figure 2**.

D. Site Geology and Hydrogeology

Describe the soil and geology encountered at the site. Discuss the effects of soil and geological characteristics on the migration and attenuation of contaminants. Include information obtained during assessment activities (e.g., lithologic descriptions made during drilling, probe surveys, tank closure, etc). If a Phase II investigation is required include a discussion of groundwater flow direction and hydraulic gradient (vertical and horizontal).

The Soil Survey of Wake County, North Carolina[1] identifies the soils of the Site as belonging to the "Mayodan-Granville-Creedmoor Association". These are described as "gently sloping to moderately steep, deep or moderately deep, well drained and moderately well drained soils that have a subsoil of friable sandy clay loam to very firm clay, derived from sandstone shale and mudstone".

The Geologic Map of North Carolina[2] locates the Site in the Triassic Basin, in an area underlain by the Chatham Group. The Chatham Group is described as conglomerate, fanglomerate, sandstone and mudstone.

The "Geology and Groundwater Resources of the Raleigh Area North Carolina[3]" also describes the area in which 900 S. Hughes Street is located as being underlain by Triassic sedimentary rocks. "Triassic rocks in the Raleigh area include buff arkosic sandstones, red to maroon argillaceous sandstones, purple to maroon shales, and coarse fanglomerate. The source areas for these sedimentary rocks were pre Triassic metamorphic and granitic rocks west of the basin for the interbedded sediments, and the pre Triassic rocks east of the basin for the fanglomerate. The Jonesboro Fault forms the eastern contact of Triassic rocks with pre-Triassic rocks".

ECE installed one groundwater monitoring well on September 16, 2005 utilizing 6-inch diameter hollow stem augers. This boring was advanced for installation of monitoring well MW-1 and encountered brown fill dirt from 0 to 11 feet below land surface. From 11 to 25 feet below land surface red-orange-brown mottled silty clay was encountered. Neither bedrock nor auger refusal were encountered in this boring while it was being advanced to 25 feet.

E. Soils Investigation

E.1 Underground Storage Tank Closure Activities and Initial Abatement Measures and Site Check

ECE's soil assessment activities were completed as part of the UST removal activities completed on June 16, 2005 and documented in the subsequent Abatement Measures and Site Check Report dated July 16, 2005. At the conclusion of petroleum contaminated soil removal activities completed on June 1, 2005, ECE collected a series of five soil samples (one each from the four sidewalls and one from the excavation bottom) for laboratory analysis by EPA Methods 8260 and 8270 and the Massachusetts Department of Environmental Protection (MADEP) Volatile Petroleum Hydrocarbons (VPH) and Extractable Petroleum Hydrocarbon (EPH) analyses. The sidewall samples were collected

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[1] *Soil Survey Wake County North Carolina, United States Department of Agriculture, Soil Conservation Service, in cooperation with the North Carolina Department of Natural Resources and Community Development, North Carolina Agricultural Research Service, North Carolina Agricultural Extension Service, and the Wake County Board of Commissioners, November 1970.*

[2] Reference: *Geologic Map of North Carolina, Department of Natural Resources and Community Development, Division of Land Resources, 1985 edition.*

[3] *"Geology and Ground-Water Resources of the Raleigh Area North Carolina"*, Ground water Bulletin No. 15. Prepared by the North Carolina Department of Water Resources, November 1968.

at a depth of approximately 6-feet below land surface while the bottom sample was collected from approximately 10-feet below land surface. The sample locations are indicated in **Figure 3**.

Soil Sample Results

The analytical results for EPA Method 8260 indicated the presence of numerous targeted parameters at levels in excess of their Soil to Groundwater Maximum Soil Contaminant Concentrations as set forth in the *"Guidelines for Assessment and Corrective Action"* prepared by the North Carolina Underground Storage Tank Section effective July 1, 2001 (*The Guidelines)* in all five soil samples collected from the side and bottom limits of the excavation. However, none of the detected contaminants were at levels in excess of their Residential Maximum Soil Contaminant Concentrations as set forth in *The Guidelines*.

The analytical results for the EPA Method 8270 test also indicated the presence of numerous targeted parameters at levels in excess of their Soil to Groundwater Maximum Soil Contaminant Concentrations as set forth in *The Guidelines* in all five soil samples collected from the side and bottom limits of the excavation. Of these, only 2-methylnaphthalene was detected in the bottom sample at a level (110 mg/kg) in excess of its Residential Maximum Soil Contaminant Concentration of 63 mg/kg as set forth in *The Guidelines*.

Finally, the analytical results for the MADEP VPH/EPH detected the presence of C5-C8 aliphatic, C9-C18 aliphatics, C19-C36 aliphatics and C9-C22 aromatics in one or more of the five samples collected from the limits of the excavation for laboratory analysis. C9-C18 aliphatics were detected in sample Side 1 at a level (14,025 mg/kg) in excess of their Residential Maximum Soil Contaminant Concentration of 469 mg/kg as set forth in *The Guidelines*. Also, C9-C22 aromatics were found in samples Side 1, Side 3, Side 4 and the bottom sample at levels (4,529, 932, 1,052 and 4,021 mg/kg, respectively) in excess of their Residential Maximum Soil Contaminant Concentration of 469 mg/kg as set forth in *The Guidelines*.

Table 3 in Section B is a summary of the contaminants detected by these methods.

F. Free Product/Groundwater Investigation

F.1 Phase I Limited Site Assessment Activities

Groundwater sampling for completion of this Phase I LSA was conducted on September 16, 2005 and included the installation and sampling of monitoring well MW-1. Monitoring well MW-1 was installed to 25-feet beneath surface grade with the well screen placed from 10 to 25-feet below land surface. MW-1 was constructed using 2" diameter PVC slotted screen and solid PVC riser pipe. See **Section B, Table 4** for a summary of the monitoring well construction data while the Well Construction Record for MW-1 is located in the back of **Section B**. **Section A, Figure 4** shows the location of MW-1 in relation to the former UST area. Static depth to groundwater was determined to be 15.5-feet below top of casing immediately prior to sampling on September 16, 2005.

MW-1 was sampled on September 16, 2005 and the samples submitted to Compuchem, Inc. of Cary (NCDENR-DWQ laboratory certification #79) for chemical analysis by EPA Methods 602 (volatile organic compounds) and 625 (semi-volatile organic compounds), in addition to MADEP-VPH/EPH methods. The purpose of this sampling event was for completion of this Phase I LSA.

All of the sampling activities described above were completed using a new disposable bailer and nitrile sampling gloves. MW-1 was developed using a disposable PVC bailer prior to collecting the groundwater samples.

Analytical results for the groundwater samples obtained from MW-1and analyzed by EPA Methods 602/625 and the MADEP-VPH/EPH methods detected several targeted contaminants at levels in excess of the laboratory detection limits. Two contaminants (naphthalene (28 ug/l) and C9-C22 aromatics (760 ug/l)) were also detected at levels in excess of their maximum allowable levels of 21.0 and 210 ug/l, respectively in groundwater as set forth in 15A NCAC 2L .0202. **Table 4** in **Section B** presents a summary of the parameters detected by EPA Methods 602/625 and the MADEP VPH/EPH methods. The laboratory report for this sampling event is presented in **Section C**.

ECE returned to the Site on September 23 and again on October 6, 2005 in order to guage the monitoring well for the presence of free phase petroleum product. None was detected during either of the subsequent gauging events.

G. Conclusions and Recommendations

Discuss the risk criteria that apply to the release and identify any other site-specific factors related to the release that may pose a risk to human health and the environment. Also, discuss any site-specific conditions or possible actions that could result in lowering the level of risk posed by the release.

ECE has completed this Phase I LSA in order to comply with NCGS 143-215.84, NCAC 15A, 2L .0106(g) and the NCDENR Underground Storage Tank Section's, *"Guidelines for Assessment and Corrective Action"*, Effective July 1, 2001.

Analytical results for soil samples collected for completion of UST closure activities identified the presence of several targeted contaminants at levels in excess of their Residential Maximum Soil Contaminant Concentrations as set forth in *The Guidelines*.

Analytical results for the groundwater samples collected for completion of this Phase I LSA showed two targeted contaminants at levels in excess of their maximum allowable concentrations as set forth in 15A NCAC 2L .0202.

The risk criteria pertaining to the release at the Site include the following: 1) there is one out of use and one in use potable water supply well located within 1,000-feet of the source area; 2) there are no surface water bodies located within 500-feet of the Site; 3) the Site is used for residential purposes; 4) the Site is surrounded by a mix of residential and commercial properties; and 5) the Site is not located in the Coastal Plain Physiographic Province.

While the release is currently considered to be "high risk" due the presence of two water supply wells located within 1,000 feet of the release area. The nearest water supply well has not been used since the 1950's and can easily be abandoned while the second well remains in use but is located 950 feet east of the release area. If the nearby well can be abandoned and the remaining well be removed from consideration due to its distance (950 feet) from the source area then the incident can be re-ranked as "low risk".

ECE recommends that Ms. Riggsbee submit a copy of this report to Mr. Bob Davies of the NCDENR-UST Section, Raleigh Regional Office, 1628 Mail Service Center, Raleigh, NC 27699.

REFERENCES

Town of Apex Engineering Department

Geologic Map of North Carolina, Department of Natural Resources and Community Development, Division of Land Resources

Guidelines For Assessment and Corrective Action. North Carolina Department of Environment and Natural Resources, Underground Storage Tank Section, July 1, 2001.

North Carolina Administrative Code, Title 15, Subchapter 2L, Sections .0100, .0115 and .0200.

North Carolina Department of Environment and Natural Resources, Division of Environmental Management, Groundwater Section, Pollution Control Branch.

Soil Survey of Wake County, North Carolina. United States Department of Agriculture, Soil Conservation Service.

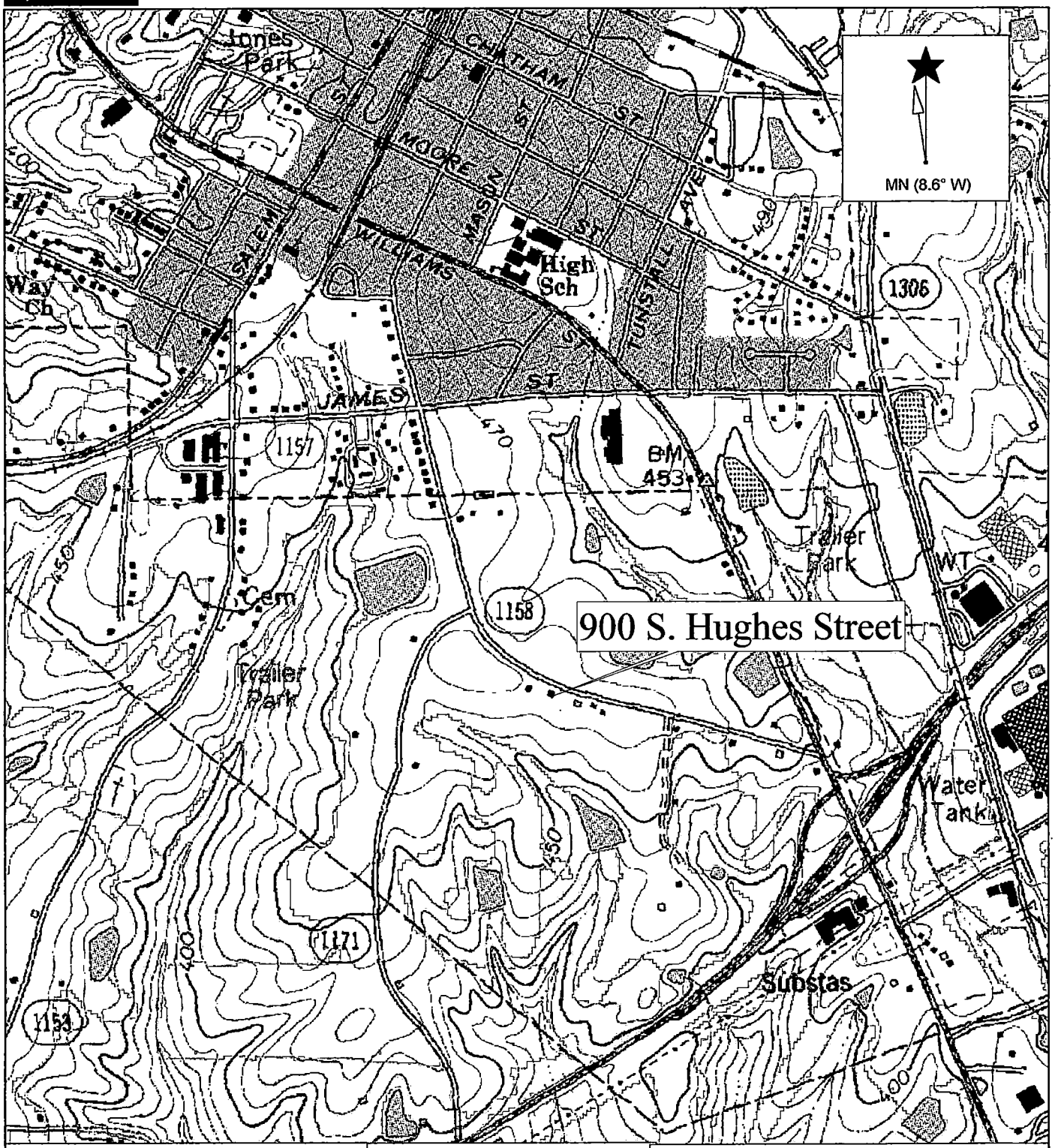
Wake County GIS Office

SECTION A

FIGURES

DeLORME

XMap® 4.5



East Coast Environmental, P.A.	Figure 1 Site Location Map	900 S. Hughes Sreet Apex, North Carolina

Scale 1 : 12,800

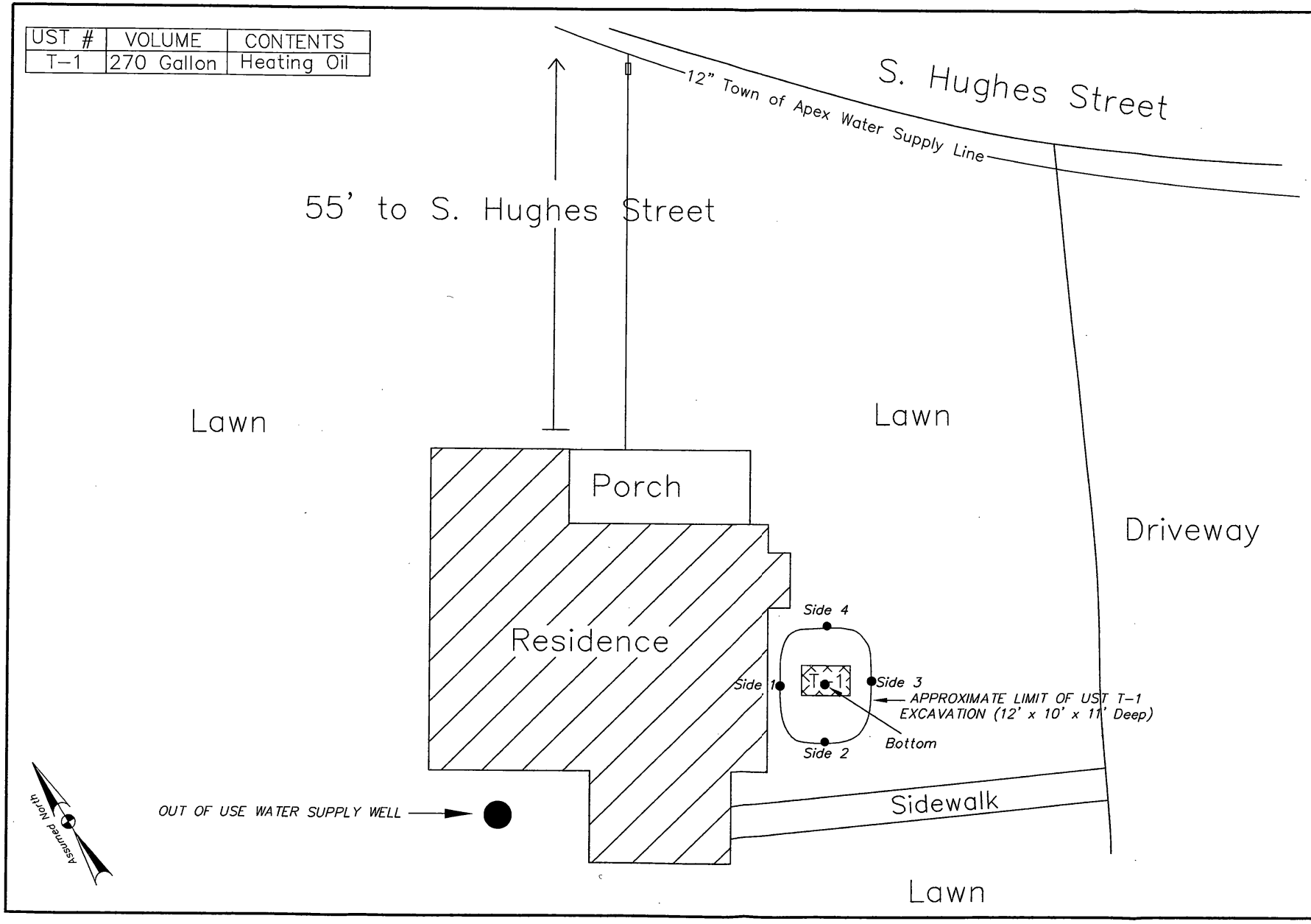
1" = 1,066.7 ft

Data Zoom 14-0

NOTES: 1" = 200'	TITLE: FIGURE 2 Adjacent Property Ownership/Receptor Location Map 900 S. HUGHES STREET APEX, WAKE COUNTY, NORTH CAROLINA	PREP. BY: TRW REV. BY: TRW	CAD FILE: 832site DATE: 7/12/05 PROJECT NO.

East Coast Environmental, P.A.
3709 Junction Boulevard
Raleigh, North Carolina 27603
(919) 772-0266 FAX:(919) 772-0466

UST #	VOLUME	CONTENTS
T-1	270 Gallon	Heating Oil

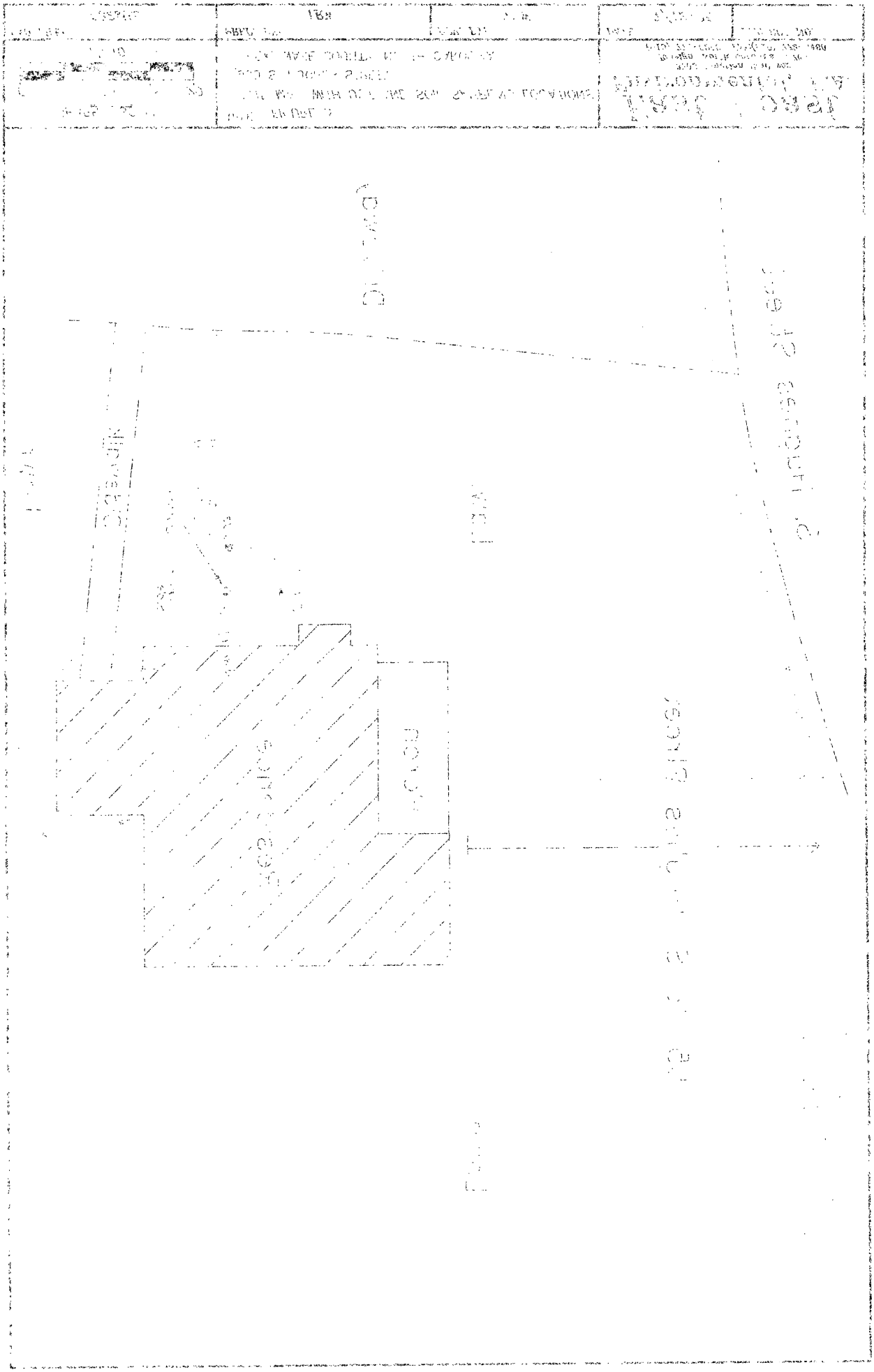


East Coast Environmental, P.A.
3709 Junction Boulevard
Raleigh, North Carolina 27603
(919) 772-0268 FAX:(919) 772-0468

TITLE: FIGURE 3
SITE MAP WITH UST AND SOIL SAMPLING LOCATIONS
900 S. HUGHES STREET
APEX, WAKE COUNTY, NORTH CAROLINA

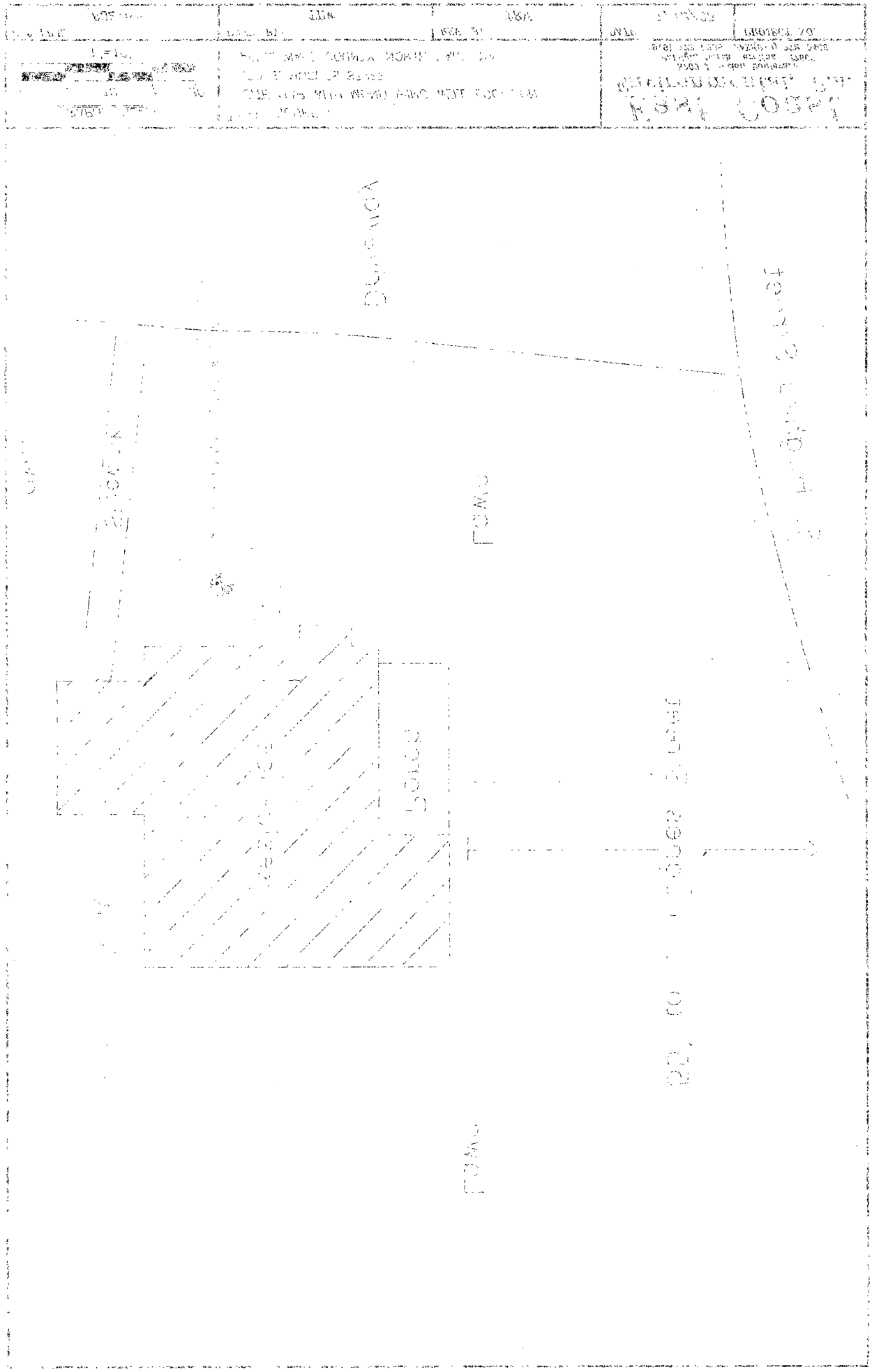
GRAPHIC SCALE
0 5 10 15 20
1"=10'

DATE:	PROJECT NO.
7/12/05	
REV. BY:	
TRW	
PREP. BY:	
TRW	
CAD FILE:	
832site	



CAD FILE: B32site	PREP. BY: TRW	REV. BY: TRW	DATE: 7/12/05
GRAPHIC SCALE 0 5 10 15 20 1"=10'	TITLE: FIGURE 4 SITE MAP WITH MONITORING WELL LOCATION 900 S. HUGHES STREET APEX, WAKE COUNTY, NORTH CAROLINA		PROJECT NO.

East Coast Environmental, P.A.
3709 Junction Boulevard
Raleigh, North Carolina 27603
(919) 772-0268 FAX:(919) 772-0468



SECTION B

TABLES/WELL CONSTRUCTION RECORD

Table 1
UST Information
900 S. Hughes Street
Apex, NC

UST ID #	Product	Capacity (gal)	Date Installed	Date Permanently Closed	Was Release Associated With UST
1	Fuel Oil	270	Unknown	6/1/2005	Yes

Property/Tank Owner:

Mildred Riggsbee
900 S. Hughes Street
Apex, North Carolina 27502
(919) 362-6278

Table 2
Adjacent Property Ownership Information
900 S. Hughes Street
Apex, NC

NC Pin #	Property Location (Occupant)	Property Owners Name/Address	Location
0741567374	900 S. Hughes Street (Mildred Riggsbee)	Gertrude Perry Family Farm c/o Mildred Riggsbee 900 S. Hughes Street Apex, NC 27502	Site
0741555707	(Occupied Mobile Home)	Paul Satterwhite Custon Homes P.O. Box 578 Holly Springs, NC 27540	Adjacent property east of the Site
0741454467	Garland Norris Company (Garland Norris Company)	Garland Norris Company P.O. Box 28 Apex, NC 27502	Property north of the Site and across South Hughes Street
0741459904	832 S. Hughes Street (Riggsbee Family)	Mildred Riggsbee 900 S. Hughes Street Apex, NC 27502	Adjacent property west of the Site
0741465131	Rex Hospital (Rex Nursing Care Center)	Rex Hospital 4420 Lake Boone Trail Raleigh, NC 27610	Property north of the Site and across South Hughes Street

Table 3
Summary of Analytical Data – Soil
EPA Method 8260
900 S. Hughes Street
Apex, NC

Analytical Method >			8260	8260	8260	8260	8260	8260	8260	8260	8260	8260	8260	8260	8260
Sample ID	Contaminant of Concern >														
	Date Collected m/dd/yy	Sample Depth (ft)	Chloromethane	Bromomethane	Ethylbenzene	Isopropylbenzene	P-isopropyltoluene	Naphthalene	N-propylbenzene	Toluene	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Total Xylenes	Sec butyl benzene	N-butyl benzene
Side 1	6/17/05	5' – 6'	**1.400**	**0.700**	**0.560**	BQL	**1.100**	**5.600**	0.580	BQL	4.600	1.500	3.200	0.450	0.900
Side 2	6/17/05	5' – 6'	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Side 3	6/17/05	5' – 6'	**1.200**	**0.610**	BQL	BQL	**0.550**	**2.200**	BQL	BQL	2.000	0.640	1.300	BQL	0.400
Side 4	6/17/05	5' – 6'	**0.800**	**0.850**	**0.770**	0.420	**2.300**	**5.400**	0.960	BQL	6.300	2.000	4.000	**1.100**	1.700
Bottom	6/17/05	11'–12'	BQL	BQL	BQL	BQL	**6.200**	**42.000**	BQL	BQL	**28.000**	**8.400**	**23.000**	BQL	BQL
Soil to Groundwater MSCC			**0.02**	**NRS**	**0.24**	**2**	**NRS**	**0.58**	**2**	**7**	**8**	**8**	**5**	**0.92**	**4**
Residential MSCC			**49**	**NRS**	**1,560**	**1,564**	**NRS**	**63**	**156**	**3,200**	**782**	**782**	**32,000**	**156**	**156**
Industrial/Commercial MSCC			**440**	**NRS**	**40,000**	**40,880**	**NRS**	**1,635**	**4,088**	**82,000**	**20,440**	**20,440**	**200,000**	**4,088**	**4,088**

Results are in mg/kg
Bold results indicate exceedence of Soil to Groundwater MSCC
Bold and shaded results indicate exceedence of Residential MSCC

Table 3 (Continued)
Summary of Analytical Data – Soil
EPA 8270
900 S. Hughes Street
Apex, North Carolina

Analytical Method >			8270	8270	8270	8270	8270	8270	8270	8270	8270	8270
Sample ID	Contaminant of Concern >		Naphthalene	2-Methylnaphthalene	Acenaphthene	Phenanthrene	Dibenzofuran	Fluorene	Pyrene	Acetophenone	Caprolactum	1.1' Biphenyl
	Date Collected (m/dd/yy)	Sample Depth (ft)										
Side 1	6/17/05	5' – 6'	**14.00D**	**60.00D**	1.900	9.20D	1.300	3.000	0.610	**4.000**	**18.00D**	**3.300**
Side 2	6/17/05	5' – 6'	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	**0.610**	BQL
Side 3	6/17/05	5' – 6'	**3.600**	**21.00D**	BQL	3.000	0.570	1.400	BQL	BQL	**5.700**	**1.400**
Side 4	6/17/05	5' – 6'	**3.700**	**22.00D**	BQL	3.600	0.570	1.700	BQL	**1.800**	**5.300**	**1.700**
Bottom	6/17/05	11' – 12'	**27.00D**	**110.0D**	3.200	18.00D	2.200	4.300	1.400	**7.90E**	**34.00D**	**5.900**
Soil to Groundwater MSCC			**0.58**	**3**	**8**	**60**	**4.7**	**44**	**286**	**NRS**	**NRS**	**NRS**
Residential MSCC			**63**	**63**	**940**	**469**	**62**	**620**	**469**	**NRS**	**NRS**	**NRS**
Industrial/Commercial MSCC			**1635**	**1635**	**24,000**	**12264**	**1635**	**16400**	**12264**	**NRS**	**NRS**	**NRS**

Results are in mg/kg
Bold results indicate exceedence of Soil to Groundwater MSCC
Bold and shaded results indicate exceedence of Residential MSCC

Table 3 (continued)
Summary of Analytical Data – Soil
MADEP-VPH/EPH
900 S. Hughes Street
Apex, NC

Analytical Method >			MADEP VPH	MADEP VPH/EPH	MADEP EPH	MADEP VPH/EPH		
Sample ID	Contaminant of Concern > Date Collected (m/dd/yy)	Sample Depth (ft)	C5-C8 Aliphatics	C9-C18 Aliphatics	C19-C36 Aliphatics	C9-C22 Aromatics		
Side 1	6/17/05	5' – 6'	BQL	**14,025**	1,700	**4,529**		
Side 2	6/17/05	5' – 6'	BQL	86	17	20		
Side 3	6/17/05	5' – 6'	12	2,751	320	**932**		
Side 4	6/17/05	5' – 6'	BQL	2,745	390	**1,052**		
Bottom	6/17/05	11' – 12'	BQL	**7,118**	1,200	**4,021**		
Soil to Groundwater MSCC			**72**	**3,255**	**Immobile**	**34**		
Residential MSCC			**939**	**9,386**	**93,860**	**469**		
Industrial/Commercial MSCC			**24,528**	**245,280**	**Health Based**	**12,264**		

Results are in mg/kg
Bold results indicate exceedence of Soil to Groundwater MSCC
Bold and shaded results indicate exceedence of Residential MSCC
N/A – Not Analyzed
ND - Not Detected

Table 4
Summary of Analytical Data – Groundwater
EPA Methods 602/625
900 S. Hughes Street
Apex, NC

Analytical Method >			602	602	602	602	625					
Contaminant of Concern >												
Well ID	Sample ID	Date Collected (m/dd/yy)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene					
MW-1	MW-1	9/16/05	1.0	1.2	3.2	24.9	**28**					
2L Standard (ug/l)			**1**	**1,000**	**29**	**530**	**21**					
GCL (ug/l)			**5,000**	**257,500**	**29,000**	**87,500**	**15,500**					

ND – Non Detect, NS-Not Sampled
Results are in ug/l
Bold results indicate exceedence of 2L Standards
Bold and shaded results indicate exceedence of GCL
"E" Denotes "Estimated Concentration" "D" Denotes "Diluted Concentration"

Table 4 (Continued)
Summary of Analytical Data – Groundwater
MADEP-VPH/EPH
900 S. Hughes Street
Apex, NC

Analytical Method >			MADEP-VPH	MADEP-VPH/EPH	MADEP-EPH	MADEP-VPH/EPH		
Contaminant of Concern >								
Well ID	Sample ID	Date Collected (m/dd/yy)	C5-C8 Aliphatics	C9-C18 Aliphatics	C19-C36 Aliphatics	C9-C22 Aromatics		
MW-1	MW-1	9/16/05	ND	500	ND	**760**		
2L Standard (ug/l)			**420**	**4,200**	**42,000**	**210**		
GCL (ug/l)			**NRS**	**NRS**	**NRS**	**NRS**		

Results are in ug/l
Bold Results indicate exceedence of 2L Standards
Bold and shaded results indicate exceedence of GCL
N/A – Not Analyzed
ND – Not Detected

Table 5
Well Construction Information
900 S. Hughes Street
Apex, NC

Well ID	Date Installed	Date Water Level Measured	Well Casing Depth	Screened Interval	Bottom of Well	Top of Casing Elevation	Depth to Water (TOC)	Free Product Thickness	Groundwater Elevation	Comments
MW-1	9/16/05	9/16/05	0-10	10-30	30	-	15.3	N/a	-	-

Supply Well Information

Well #	Well Owner/ Address	Well Use	Well Depth	Type of Well	Well Casing Depth	Well Screen Interval	Distance from Source Area
1	Mildred Riggsbee 900 S. Hughes Street Apex, NC 27502	Out of Use	23 Feet	Bored/Dug	23 Feet	N/A	50-feet West
2	Mildred Riggsbee 900 S. Hughes Street Apex, NC 27502	In Use	48 Feet	Bored	48 Feet	N/A	950-Feet East

North Carolina -Department of Environment and Natural Resources - Division of Water Quality - Groundwater Section
1636 Mail Service Center - Raleigh, N.C. 27699-1636 - Phone (919) 733-3221

WELL CONSTRUCTION RECORD

MW-1

WELL CONTRACTOR: James D. Barker
WELL CONTRACTOR CERTIFICATION #: 3106
STATE WELL CONSTRUCTION PERMIT #: N/A

1. WELL USE (Check Applicable Box): Residential ☐ Municipal ☐ Industrial ☐ Agricultural ☐ Monitoring ☒
   Recovery ☐ Heat Pump Water Injection ☐ Other ☐ If Other, List Use:
2. WELL LOCATION: (Show sketch of the location below)
   Nearest Town: Apex County: Wake 78 deg 51' 00"/35 deg 43' 00"
   900 Hughes Street, Apex, NC 27502
   (Road name and Numbers, Community, or Subdivision and Lot No.)
3. OWNER Mildred Rigsby
   Address 832 Hughes Street
   (Street or Route No.)
   Apex NC 27502
   City or Town State Zip Code
4. DATE DRILLED 9/15/05
5. TOTAL DEPTH 25' Ft.
6. CUTTINGS COLLECTED YES ☒ NO ☐
7. DOES WELL REPLACE EXISTING WELL? YES ☐ NO ☒
8. STATIC WATER LEVEL Below top of Casing: ~ 15' FT.
   (Use "+" if Above Top of Casing)
9. TOP OF CASIING IS (-0.20') FT. Above Land Surface
   *Top if casing terminated at/or below land surface required a variance in accordance with 15A NCAC 2C .0118
10. YIELD (gmp): N/A METHOD OF TEST N/A
11. WATER ZONES (depth): ~15'
12. CHLORINATION: Type N/A Amount N/A
13. CASING

	Depth			Diameter	Wall Thickness Or Weight/Ft.	Material
From	0'	To 10'	Ft.	2"	sch 40	PVC
From		To	Ft.			
From		To	Ft.			

14. GROUT:

	Depth			Material	Method
From	0'	To 7'	Ft.	Portland Cement	Inject
From	7'	To 9'	Ft.	Bentonite	Place/Hydrate

15. SCREEN:

	Depth			Diameter		Slot Size		Material
From	10'	To 25'	Ft.	2" dia.	in.	0.010"	in.	PVC
From		To	Ft.		in.		in.	
From		To	Ft.		in.		in.	

16. SAND/GRAVEL PACK:

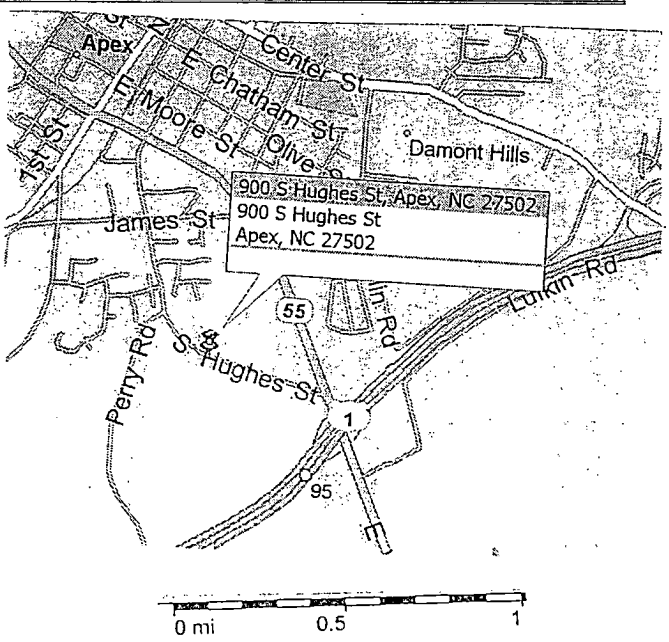
	Depth			Size	Material
From	9'	To 25'	Ft.	#2	Silica Sand
From		To	Ft.		

17. REMARKS:

DRILLING LOG

From	To	DEPTH Formation Description
0'	2'	misc. ground cover, sandy silt
2'	25'	fine to medium Sands to Sandy Silt

If additional space is needed use back of form



I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTIONS STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

9-26-05

SIGNATURE OF PERSON CONSTRUCTING THE WELL DATE

Submit original to Division of Water Quality, Groundwater Section within 30 days

FOR OFFICE USE ONLY
Quad No:
Serial No.

GW-1 REV. 12/99

SECTION C

LABORATORY REPORTS

CompuChem

a division of Liberty Analytical Corp.

26-Sep-05

TOM WILL
EAST COAST ENVIRONMENTAL
3709 JUNCTION BLVD.

RALEIGH, NC 27603

Subject:
Report of Data-Project: 900 S.HUGHES Workorder: 7739

Attn.: TOM WILL

Enclosed are the results of analytical work performed in accordance with the referenced account number.

This report covers sample(s) appearing on the attached listing.

Thank you for selecting CompuChem for your sample analysis. If you should have questions or require additional analytical services, please contact your representative at 1-800-833-5097.

Sincerely,

CompuChem
A Division of Liberty Analytical

Attachment

TOTAL NUMBER
OF PAGES_____

501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

№ 007131

Page 1 of 1

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

Company Name: East Coast Environmental
Address: 3709 Junction Blvd
City: Raleigh State: NC Zip: 27603
Project Contact: Will
Phone #: 772-0268
Sampler's Name:

Project Name: 332 S. Hughes Street
Sampling Location: Apex
Turnaround time: Standard
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or N
Are high concentrations expected? Y or N? If yes, which ID(s)?

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

	Field ID	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	MeOH	Other	EPA 602	EPA 625 BNA+10	MADEP VPH/EPH		
7MN001	MW-1	9/16	1200	water								✓	✓	✓		774.01

Sample Unpacked By:
Sample Order Entry By:
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Relinquished by: | Date/Time: 9/16 3:00 | Received by: | Date/Time: 9/16/05 1520
Relinquished by: | Date/Time: | Received by: | Date/Time:
Subcontract? Y or N If yes, where?
Custody Seal(s) intact? Y or N (NO) On Ice? (Y) or N | Cooler Temp: 2.3 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MW-1

Lab Name: COMPUCHEM Method: 8260B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7739

Matrix: (soil/water) WATER Lab Sample ID: 773901

Sample wt/vol: 25 (g/ml) ML Lab File ID: 773901B61

Level: (low/med) LOW Date Received: 09/16/05

% Moisture: not dec. _____ Date Analyzed: 09/17/05

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
1634-04-4	Methyl-tert-butyl ether	0.50	U
108-20-3	Isopropyl ether	0.50	U
71-43-2	Benzene	1.0	
108-88-3	Toluene	1.2	
100-41-4	Ethylbenzene	3.2	
108-38-3	m,p-Xylene	15	
95-47-6	o-Xylene	7.9	
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW-1

Lab Name: COMPUCHEM Method: 625

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7739

Matrix: (soil/water) WATER Lab Sample ID: 773901

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 773901A66

Level: (low/med) LOW Date Received: 09/16/05

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/20/05

Concentrated Extract Volume: 1000(uL) Date Analyzed: 09/22/05

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
108-95-2	Phenol	10	U
111-44-4	Bis(2-chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
39638-32-9	bis(2-Chloroisopropyl)ether	10	U
621-64-7	N-Nitroso-di-N-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	29	
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
77-47-4	Hexachlorocyclopentadiene	20	U
88-06-2	2,4,6-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MW-1

Lab Name: COMPUCHEM Method: 625

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7739

Matrix: (soil/water) WATER Lab Sample ID: 773901

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 773901A66

Level: (low/med) LOW Date Received: 09/16/05

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 09/20/05

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/22/05

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
122-66-7	1,2-Diphenylhydrazine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
92-87-5	Benzidine	20	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
117-81-7	bis(2-ethylhexyl)Phthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-c,d)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
MW-1

Lab Name: COMPUCHEM Method: 625

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 7740

Matrix: (soil/water) WATER Lab Sample ID: 774001

Sample wt/vol: 500 (g/mL) ML Lab File ID: 774001A66

Level: (low/med) LOW Date Received: 09/16/05

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/20/05

Concentrated Extract Volume: 500(uL) Date Analyzed: 09/23/05

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
122-66-7	1,2-Diphenylhydrazine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
92-87-5	Benzidine	20	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
117-81-7	bis(2-ethylhexyl)Phthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-c,d)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

Mr. Mike Pearce
CompuChem
501 Madison Ave
Cary NC 27513

Report Number: G349-120

Client Project: 900 S. Hughes St.

Dear Mr. Pearce:

Enclosed are the results of the analytical services performed under the referenced project. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. Any samples submitted to our laboratory will will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or the services performed during this project, please call Paradigm at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using Paradigm Analytical Labs for your analytical services. We look forward to working with you again on any additional analytical needs which you may have.

Sincerely,
Paradigm Analytical Laboratories, Inc.

10/5/2005

Laboratory Director Date
J. Patrick Weaver

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: CompuChem

Project Name: 900 S. Hughes St.

Sample Information and Analytical Results	
Sample Identification	MW-1
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	09/16/05
Date Received	09/20/05
Date Extracted	09/20/05
Date Analyzed	09/20/05
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	< 100 (µg/L)
C_9-C_{12} Aliphatics**	500 (µg/L)
C_9-C_{10} Aromatics**	310 (µg/L)
Surrogate % Recovery - PID	120
Surrogate % Recovery - FID	100

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: G349-120-1A

Reviewed By: RW

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 09/19/05 PID Initial Calibration Date: 09/19/05

Calibration Ranges and Limits

Range	MDL (07/15/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_5-C_8 Aliphatics	4.4	14	100	10
C_9-C_{12} Aliphatics	3.4	11	100	10
C_9-C_{10} Aromatics	0.13	0.41	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	%RSD or CCC	Method of Quantitation
C_5-C_8 Aliphatics	40	7.8	Calibration Factor
	1000		
	2000		
	3000		
	4000		
C_9-C_{12} Aliphatics	10	23.3	Calibration Factor
	250		
	500		
	750		
	1000		
C_9-C_{10} Aromatics	10	16.9	Calibration Factor
	250		
	500		
	750		
	1000		

Calibration Check Date: 09/20/05

Calibration Check

Range	Levels (µg/L)	Levels (mg/Kg)	RPD
C_5-C_8 Aliphatics	2000	200	0.5
C_9-C_{12} Aliphatics	500	50	-16.7
C_9-C_{10} Aromatics	500	50	-10.8

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: _____

Project Name: _____

Sample Information and Analytical Results	
Sample Identification	Method Blank
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	
Date Received	
Date Extracted	
Date Analyzed	09/20/05
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	< 100 (µg/L)
C_9-C_{12} Aliphatics**	< 100 (µg/L)
C_9-C_{10} Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	100
Surrogate % Recovery - FID	95

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil

** = Excludes any surrogates or internal standards.

Lab Info: VBLK4092005A

Reviewed By: BNP

MS/MSD Results for VPH
by MDEP-VPH

Client Sample ID:	Batch QC	Date Analyzed:	9/20/2005
Client Project ID:		Analyzed By:	DCS
Lab Sample ID:	QC092005	Date Collected:	
Lab Project ID:		Date Received:	
Matrix:	Water	Dilution:	1.0

Compound	Sample ug/L	MS ug/L	MSD ug/L
C_5-C_8 Aliphatics	BQL	270	280
C_9-C_{12} Aliphatics	BQL	200	210
C_9-C_{10} Aromatics	BQL	70	74

		Total	%Rec	Total	%Rec	RPD
Gasoline	BQL	540	108%	564	113%	4.3

Reviewed By: _____

Comments:
BQL = Below Quantitation Limit