Lockheed Martin Environmental Services
US EPA Environmental Science Center
701 Mapes Road Ft. Meade, MD 20755-5350
Telephone 410-305-3037 Facsimile 410-305-3597

ORIGINAL

LOCKHEED MARTIN

SDMS DocID 2241144

DATE: February 28, 2000

SUBJECT: Level M1 Organic Data Validation for Case 27734
SDG: CXG54
Site: 12th Street Landfill

FROM: (b) (4) [redacted]
Organic Data Reviewer

(b) (4) [redacted]
Senior Organic Data Reviewer

TO: Fredrick Foreman
ESAT Regional Project Officer

OVERVIEW

Case 27734, Sample Delivery Group (SDG) CXG54, consisted of fourteen (14) soil samples and one (1) associated aqueous rinsate blank submitted to Envirosystems, Inc. (ENVSYS) for semivolatile analyses. The sample set included one (1) field duplicate pair. Samples were analyzed according to Contract Laboratory Program (CLP) Statement of Work (SOW) OLM04.2 through Routine Analytical Services (RAS) program.

SUMMARY

Data were validated according to Innovative Approaches for Validation of Organic Data, Level M1. This level of review includes assessment of action level compounds, laboratory and field blanks, sample paperwork, retention times and visual inspection of chromatograms and sample spectra. Although not required by this level of review, one (1) major problem was noted during review of these data as discussed under "MAJOR PROBLEM". All samples were successfully analyzed for all target compounds except those qualified "R" as noted in "MAJOR PROBLEM" section.

MAJOR PROBLEM

- Response Factor (RF) was less than 0.05 for atrazine in several semivolatile continuing calibrations. No positive results were reported for these compounds. Quantitation limits for these compounds in affected samples were qualified "R".

MINOR PROBLEMS

- Several semivolatile compounds failed precision criteria [Relative Standard Deviation (%RSD) or Percent Difference (%D)] in initial and/or continuing calibrations. Positive results for these compounds were qualified "J". Quantitation limits for compounds with %RSD or %D>50% were qualified "UJ", except when superseded by "R".

NOTES

- Rinsate and method blanks were free of contaminants. No data were qualified based on blanks.
- Sample CXG65 was initially analyzed at two-fold (2X) dilution to minimize matrix effects. Contract Required Quantitation Limits (CRQLs) are elevated due to this dilution.
- Bis(2-ethylhexyl)phthalate exceeded calibration range in initial analysis of sample CXG80. This sample was reanalyzed at two-fold (2X) dilution to bring this compound within calibration range. Results for bis(2-ethylhexyl)phthalate are reported from dilution on the Data Summary Form (DSF) and annotated with "+" symbol.
- Semivolatile analysis of sample CXG83 had recoveries for one (1) acid surrogate, one (1) base/neutral surrogate, and one (1) base/neutral advisory compound outside the lower QC limit. No data were qualified based on these surrogate recovery outliers.
- Compounds detected below CRQLs were qualified "J" on Data Summary Forms (DSFs).
- Anthracene was detected below CRQL in samples CXG56, CXG58 and CXG85 while phenanthrene was detected below CRQL in sample CXG84. Results for these compounds were not reported on Form Is by the laboratory. Review of sample chromatograms, spectra and retention times confirmed positive identification for these compounds. Although these results are below CRQLs, they were reported on DSFs by the reviewer for consistency throughout the data package. See spectra in Appendix D.

All data for Case 27734, SDG CXG54, were reviewed in accordance with Level M1 Innovative Approaches for Validation of Organic Data, Region III, June 1995.

ATTACHMENTS

1)	Appendix A	Glossary of Data Qualifier Terms
2)	Appendix B	Data Summary Forms
3)	Appendix C	Form I s
4)	Appendix D	Support Documentation

DCN: 27734.rtf

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Appendix A

Glossary of Data Qualifier Terms

GLOSSARY OF DATA QUALIFIER CODES (ORGANIC)

CODES RELATED TO IDENTIFICATION
(confidence concerning presence or absence of compounds)

U = Not detected. The associated number indicates approximate sample concentration necessary to be detected.

NO CODE = Confirmed identification.

B = Not detected substantially above the level reported in laboratory or field blanks.

R = Unusable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.

N = Tentative identification. Consider present. Special methods may be needed to confirm its presence or absence in future sampling efforts.

CODES RELATED TO QUANTITATION
(can be used for both positive results and sample quantitation limits):

J = Analyte present. Reported value may not be accurate or precise.

K = Analyte present. Reported value may be biased high. Actual value is expected to be lower.

L = Analyte present. Reported value may be biased low. Actual value is expected to be higher.

UJ = Not detected, quantitation limit may be inaccurate or imprecise.

UL = Not detected, quantitation limit is probably higher.

OTHER CODES

NJ = Qualitative identification questionable due to poor resolution. Presumptively present at approximate quantity.

Q = No analytical result.

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Appendix B

Data Summary Forms

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DATA SUMMARY FORM: BNA

Case #: 27734
Site :
Lab. :

SDG : CXG54
12TH STREET LANDFILL
ENVSYS

Number of Soil Samples : 14
Number of Water Samples : 1

Sample Number :		CXG54		CXG55		CXG56		CXG57		CXG58	
Sampling Location :		TS-SED-10		TS-SED-17		TS-SS-08		TS-SS-10		TS-SS-12	
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		01/11/2000		01/11/2000		01/11/2000		01/11/2000		01/11/2000	
Time Sampled :		10:35		11:35		14:15		14:50		15:15	
%Moisture :		35		17		28		28		17	
pH :											
Dilution Factor :		1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	330										
Phenol	330										
bis-(2-Chloroethyl) ether	330										
2-Chlorophenol	330										
2-Methylphenol	330										
2,2'-oxybis(1-Chloropropane)	330										
Acetophenone	330										
4-Methylphenol	330										
N-Nitroso-di-n-propylamine	330										
Hexachloroethane	330										
Nitrobenzene	330										
Isophorone	330										
2-Nitrophenol	330										
2,4-Dimethylphenol	330										
bis(2-Chloroethoxy)methane	330										
2,4-Dichlorophenol	330										
Naphthalene	330										
4-Chloroaniline	330										
Hexachlorobutadiene	330										
Caprolactam	330										
4-Chloro-3-methylphenol	330										
2-Methylnaphthalene	330										
Hexachlorocyclopentadiene	330						UJ		UJ		UJ
2,4,6-Trichlorophenol	330										
2,4,5-Trichlorophenol	830										
1,1'-Biphenyl	330										
2-Chloronaphthalene	330										
2-Nitroaniline	830										
Dimethylphthalate	330										
2,6-Dinitrotoluene	330										
Acenaphthylene	330										
3-Nitroaniline	830										

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

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DATA SUMMARY FORM: BNA

Case #: 27734 SDG : CXG54
Site : 12TH STREET LANDFILL
Lab. : ENVSYS

Sample Number :		CXG54		CXG55		CXG56		CXG57		CXG58	
Sampling Location :		TS-SED-10		TS-SED-17		TS-SS-08		TS-SS-10		TS-SS-12	
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		01/11/2000		01/11/2000		01/11/2000		01/11/2000		01/11/2000	
Time Sampled :		10:35		11:35		14:15		14:50		15:15	
%Moisture :		35		17		28		28		17	
pH :											
Dilution Factor :		1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acenaphthene	330										
2,4-Dinitrophenol	830										
4-Nitrophenol	830										
Dibenzofuran	330										
2,4-Dinitrotoluene	330										
Diethylphthalate	330										
Fluorene	330										
4-Chlorophenyl-phenyl ether	330										
4-Nitroaniline	830										
4,6-Dinitro-2-methylphenol	830										
N-Nitrosodiphenylamine	330										
4-Bromophenyl-phenylether	330										
Hexachlorobenzene	330										
Atrazine	330		R		R		R		R		R
Pentachlorophenol	830										
Phenanthrene	330					430	J	1200	J	330	J
Anthracene	330					83	J	250	J	75	J
Carbazole	330							110	J		
Di-n-butylphthalate	330										
Fluoranthene	330					940		2000		560	
Pyrene	330					870		1700		540	
Butylbenzylphthalate	330					160	J			100	J
3,3'-Dichlorobenzidine	330						UJ		UJ		UJ
Benzo(a)anthracene	330					480		960		320	J
Chrysene	330					540		980		360	J
bis(2-Ethylhexyl)phthalate	330					1200	J	1200	J	1500	J
Di-n-octylphthalate	330						UJ		UJ		UJ
Benzo(b)fluoranthene	330					430	J	760	J	290	J
Benzo(k)fluoranthene	330					440	J	710		290	J
Benzo(a)pyrene	330					480		770		310	J
Indeno(1,2,3-cd)pyrene	330					290	J	430	J	230	J
Dibenzo(a,h)anthracene	330					110	J	130	J		
Benzo(g,h,i)perylene	330					240	J	320	J	190	J

CRQL = Contract Required Quantitation Limit SEE NARRATIVE FOR CODE DEFINITIONS

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100 Revised 09/99

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DATA SUMMARY FORM: BNA

Case #: 27734 SDG : CXG54
Site : 12TH STREET LANDFILL
Lab. : ENVSYS

Sample Number :		CXG61		CXG64		CXG65		CXG79		CXG80	
Sampling Location :		TS-SED-28		TS-SED-15 Duplicate(CXG85)		TS-SED-18		TS-SB-04		TS-SB-08	
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		01/12/2000		01/11/2000		01/12/2000		01/13/2000		01/13/2000	
Time Sampled :		10:00		11:10		08:35		08:50		10:15	
%Moisture :		35		36		26		23		36	
pH :											
Dilution Factor :		1.0		1.0		2.0		1.0		1.0 / 2.0	
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	330										
Phenol	330										
bis-(2-Chloroethyl) ether	330										
2-Chlorophenol	330										
2-Methylphenol	330										
2,2'-oxybis(1-Chloropropane)	330										
Acetophenone	330										
4-Methylphenol	330										
N-Nitroso-di-n-propylamine	330										
Hexachloroethane	330										
Nitrobenzene	330										
Isophorone	330										
2-Nitrophenol	330										
2,4-Dimethylphenol	330										
bis(2-Chloroethoxy)methane	330										
2,4-Dichlorophenol	330										
Naphthalene	330										
4-Chloroaniline	330										
Hexachlorobutadiene	330										
Caprolactam	330										
4-Chloro-3-methylphenol	330										
2-Methylnaphthalene	330										
Hexachlorocyclopentadiene	330						UJ		UJ		UJ
2,4,6-Trichlorophenol	330										
2,4,5-Trichlorophenol	830										
1,1'-Biphenyl	330										
2-Chloronaphthalene	330										
2-Nitroaniline	830										
Dimethylphthalate	330							150	J		
2,6-Dinitrotoluene	330										
Acenaphthylene	330										
3-Nitroaniline	830										

CRQL = Contract Required Quantitation Limit SEE NARRATIVE FOR CODE DEFINITIONS
To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100 Revised 09/99

ORIGINAL

DATA SUMMARY FORM: BNA

Case #: 27734 SDG : CXG54
Site : 12TH STREET LANDFILL
Lab. : ENVSYS

Sample Number :		CXG61		CXG64		CXG65		CXG79		CXG80	
Sampling Location :		TS-SED-28		TS-SED-15 Duplicate(CXG85)		TS-SED-18		TS-SB-04		TS-SB-08	
Matrix :		Soil		Soil		Soil		Soil		Soil	
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :		01/12/2000		01/11/2000		01/12/2000		01/13/2000		01/13/2000	
Time Sampled :		10:00		11:10		08:35		08:50		10:15	
%Moisture :		35		36		26		23		36	
pH :											
Dilution Factor :		1.0		1.0		2.0		1.0		1.0 / 2.0	
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acenaphthene	330					230	J				
2,4-Dinitrophenol	830										
4-Nitrophenol	830										
Dibenzofuran	330										
2,4-Dinitrotoluene	330										
Diethylphthalate	330										
Fluorene	330										
4-Chlorophenyl-phenyl ether	330										
4-Nitroaniline	830										
4,6-Dinitro-2-methylphenol	830										
N-Nitrosodiphenylamine	330										
4-Bromophenyl-phenylether	330										
Hexachlorobenzene	330										
Atrazine	330		R		R		R		R		R
Pentachlorophenol	830										
Phenanthrene	330							360	J	330	J
Anthracene	330							87	J		
Carbazole	330										
Di-n-butylphthalate	330	210	J					110	J		
Fluoranthene	330					310	J	660		630	
Pyrene	330					590	J	550		750	
Butylbenzylphthalate	330							280	J		
3,3'-Dichlorobenzidine	330								UJ		UJ
Benzo(a)anthracene	330							380	J	430	J
Chrysene	330					250	J	400	J	500	J
bis(2-Ethylhexyl)phthalate	330					3600		3100		5100+	
Di-n-octylphthalate	330								UJ		UJ
Benzo(b)fluoranthene	330					210	J	350	J	380	J
Benzo(k)fluoranthene	330							330	J	310	J
Benzo(a)pyrene	330							360	J	440	J
Indeno(1,2,3-cd)pyrene	330							280	J	270	J
Dibenzo(a,h)anthracene	330										
Benzo(g,h,i)perylene	330							270	J	390	J

CRQL = Contract Required Quantitation Limit SEE NARRATIVE FOR CODE DEFINITIONS

+ = Result reported from dilution analysis

To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100

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DATA SUMMARY FORM: BNA

Case #: 27734 SDG : CXG54
Site : 12TH STREET LANDFILL
Lab. : ENVSYS

Sample Number :		CXG82		CXG83		CXG84		CXG85			
Sampling Location :		TS-BG-01		TS-BG-02		TS-BG-03		TS-FD-01 Duplicate(CXG64)			
Matrix :		Soil		Soil		Soil		Soil			
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg			
Date Sampled :		01/13/2000		01/13/2000		01/13/2000		01/11/2000			
Time Sampled :		12:50		12:55		13:00		00:00			
%Moisture :		45		21		18		40			
pH :											
Dilution Factor :		1.0		1.0		1.0		1.0			
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	330										
Phenol	330										
bis-(2-Chloroethyl) ether	330										
2-Chlorophenol	330										
2-Methylphenol	330										
2,2'-oxybis(1-Chloropropane)	330										
Acetophenone	330										
4-Methylphenol	330										
N-Nitroso-di-n-propylamine	330										
Hexachloroethane	330										
Nitrobenzene	330										
Isophorone	330										
2-Nitrophenol	330										
2,4-Dimethylphenol	330										
bis(2-Chloroethoxy)methane	330										
2,4-Dichlorophenol	330										
Naphthalene	330										
4-Chloroaniline	330										
Hexachlorobutadiene	330										
Caprolactam	330										
4-Chloro-3-methylphenol	330										
2-Methylnaphthalene	330										
Hexachlorocyclopentadiene	330		UJ				UJ		UJ		
2,4,6-Trichlorophenol	330										
2,4,5-Trichlorophenol	830										
1,1'-Biphenyl	330										
2-Chloronaphthalene	330										
2-Nitroaniline	830										
Dimethylphthalate	330										
2,6-Dinitrotoluene	330										
Acenaphthylene	330										
3-Nitroaniline	830										

CRQL = Contract Required Quantitation Limit SEE NARRATIVE FOR CODE DEFINITIONS
To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100 Revised 09/99

ORIGINAL

DATA SUMMARY FORM: BNA

Case #: 27734 SDG : CXG54
Site : 12TH STREET LANDFILL
Lab. : ENVSYS

Sample Number :		CXG82		CXG83		CXG84		CXG85			
Sampling Location :		TS-BG-01		TS-BG-02		TS-BG-03		TS-FD-01 Duplicate(CXG64)			
Matrix :		Soil		Soil		Soil		Soil			
Units :		ug/Kg		ug/Kg		ug/Kg		ug/Kg			
Date Sampled :		01/13/2000		01/13/2000		01/13/2000		01/11/2000			
Time Sampled :		12:50		12:55		13:00		00:00			
%Moisture :		45		21		18		40			
pH :											
Dilution Factor :		1.0		1.0		1.0		1.0			
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acenaphthene	330										
2,4-Dinitrophenol	830										
4-Nitrophenol	830										
Dibenzofuran	330										
2,4-Dinitrotoluene	330										
Diethylphthalate	330										
Fluorene	330										
4-Chlorophenyl-phenyl ether	330										
4-Nitroaniline	830										
4,6-Dinitro-2-methylphenol	830										
N-Nitrosodiphenylamine	330										
4-Bromophenyl-phenylether	330										
Hexachlorobenzene	330										
Atrazine	330		R		R		R		R		
Pentachlorophenol	830										
Phenanthrene	330					68	J	460	J		
Anthracene	330							63	J		
Carbazole	330										
Di-n-butylphthalate	330			96	J						
Fluoranthene	330	120	J			180	J	790			
Pyrene	330					150	J	850			
Butylbenzylphthalate	330										
3,3'-Dichlorobenzidine	330		UJ				UJ		UJ		
Benzo(a)anthracene	330					88	J	380	J		
Chrysene	330					100	J	440	J		
bis(2-Ethylhexyl)phthalate	330							150	J		
Di-n-octylphthalate	330		UJ				UJ		UJ		
Benzo(b)fluoranthene	330					83	J	300	J		
Benzo(k)fluoranthene	330					85	J	330	J		
Benzo(a)pyrene	330							320	J		
Indeno(1,2,3-cd)pyrene	330							250	J		
Dibenzo(a,h)anthracene	330										
Benzo(g,h,i)perylene	330							230	J		

CRQL = Contract Required Quantitation Limit SEE NARRATIVE FOR CODE DEFINITIONS
To calculate sample quantitation limits: (CRQL * Dilution Factor) / (100 - %Moisture) / 100 Revised 09/99

ORIGINAL

DATA SUMMARY FORM: BNA

Case #: 27734 SDG : CXG54
Site : 12TH STREET LANDFILL
Lab. : ENVSYS

Sample Number :		CXG81									
Sampling Location :		TS-RB-01									
Field QC:		Rinsate Blank									
Matrix :		Water									
Units :		ug/L									
Date Sampled :		01/13/2000									
Time Sampled :		11:30									
%Moisture :		N/A									
pH :											
Dilution Factor :		1.0									
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	10										
Phenol	10										
bis-(2-Chloroethyl) ether	10										
2-Chlorophenol	10										
2-Methylphenol	10										
2,2'-oxybis(1-Chloropropane)	10										
Acetophenone	10										
4-Methylphenol	10										
N-Nitroso-di-n-propylamine	10										
Hexachloroethane	10										
Nitrobenzene	10										
Isophorone	10										
2-Nitrophenol	10										
2,4-Dimethylphenol	10										
bis(2-Chloroethoxy)methane	10										
2,4-Dichlorophenol	10										
Naphthalene	10										
4-Chloroaniline	10										
Hexachlorobutadiene	10										
Caprolactam	10										
4-Chloro-3-methylphenol	10										
2-Methylnaphthalene	10										
Hexachlorocyclopentadiene	10		UJ								
2,4,6-Trichlorophenol	10										
2,4,5-Trichlorophenol	25										
1,1'-Biphenyl	10										
2-Chloronaphthalene	10										
2-Nitroaniline	25										
Dimethylphthalate	10										
2,6-Dinitrotoluene	10										
Acenaphthylene	10										
3-Nitroaniline	25										

CRQL = Contract Required Quantitation Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS
To calculate sample quantitation limits multiply the CRQL by the Dilution Factor Revised 09/99

ORIGINAL

DATA SUMMARY FORM: BNA

Case #: 27734 SDG : CXG54
Site : 12TH STREET LANDFILL
Lab. : ENVSYS

Sample Number :		CXG81									
Sampling Location :		TS-RB-01									
Field QC:		Rinsate Blank									
Matrix :		Water									
Units :		ug/L									
Date Sampled :		01/13/2000									
Time Sampled :		11:30									
%Moisture :		N/A									
pH :											
Dilution Factor :		1.0									
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Acenaphthene	10										
2,4-Dinitrophenol	25										
4-Nitrophenol	25										
Dibenzofuran	10										
2,4-Dinitrotoluene	10										
Diethylphthalate	10										
Fluorene	10										
4-Chlorophenyl-phenyl ether	10										
4-Nitroaniline	25										
4,6-Dinitro-2-methylphenol	25										
N-Nitrosodiphenylamine	10										
4-Bromophenyl-phenylether	10										
*Hexachlorobenzene	10										
Atrazine	10		UJ								
*Pentachlorophenol	25										
Phenanthrene	10										
Anthracene	10										
Carbazole	10										
Di-n-butylphthalate	10										
Fluoranthene	10										
Pyrene	10										
Butylbenzylphthalate	10										
3,3'-Dichlorobenzidine	10										
Benzo(a)anthracene	10										
Chrysene	10										
bis(2-Ethylhexyl)phthalate	10										
Di-n-octylphthalate	10		UJ								
Benzo(b)fluoranthene	10										
Benzo(k)fluoranthene	10										
Benzo(a)pyrene	10										
Indeno(1,2,3-cd)pyrene	10										
Dibenzo(a,h)anthracene	10										
Benzo(g,h,i)perylene	10										

CRQL = Contract Required Quantitation Limit *Action Level Exists SEE NARRATIVE FOR CODE DEFINITIONS
To calculate sample quantitation limits multiply the CRQL by the Dilution Factor Revised 09/99

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Appendix C

Form I s

ORIGINAL

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CXG54

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix: (soil/water) SOIL Lab Sample ID: 00010148

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GA954

Level: (low/med) LOW Date Received: 01/14/00

% Moisture: 35 Decanted: (Y/N)N Date Extracted: 01/15/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 01/28/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.2 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	510	U
108-95-2	Phenol	510	U
111-44-4	bis(2-Chloroethyl)Ether	510	U
95-57-8	2-Chlorophenol	510	U
95-48-7	2-Methylphenol	510	U
108-60-1	2,2'-oxybis(1-Chloropropane)	510	U
98-86-2	Acetophenone	510	U
106-44-5	4-Methylphenol	510	U
621-64-7	N-Nitroso-di-n-propylamine	510	U
67-72-1	Hexachloroethane	510	U
98-95-3	Nitrobenzene	510	U
78-59-1	Isophorone	510	U
88-75-5	2-Nitrophenol	510	U
105-67-9	2,4-Dimethylphenol	510	U
120-83-2	2,4-Dichlorophenol	510	U
91-20-3	Naphthalene	510	U
106-47-8	4-Chloroaniline	510	U
111-91-1	bis(2-Chloroethoxy)methane	510	U
87-68-3	Hexachlorobutadiene	510	U
105-60-2	Caprolactam	510	U
59-50-7	4-Chloro-3-methylphenol	510	U
91-57-6	2-Methylnaphthalene	510	U
77-47-4	Hexachlorocyclopentadiene	510	U
88-06-2	2,4,6-Trichlorophenol	510	U
95-95-4	2,4,5-Trichlorophenol	1300	U
92-52-4	1,1'-Biphenyl	510	U
91-58-7	2-Chloronaphthalene	510	U
88-74-4	2-Nitroaniline	1300	U
131-11-3	Dimethylphthalate	510	U
606-20-2	2,6-Dinitrotoluene	510	U
208-96-8	Acenaphthylene	510	U
99-09-2	3-Nitroaniline	1300	U
83-32-9	Acenaphthene	510	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ORIGINAL

CXG54

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix: (soil/water) SOIL Lab Sample ID: 00010148

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GA954

Level: (low/med) LOW Date Received: 01/14/00

% Moisture: 35 Decanted: (Y/N)N Date Extracted: 01/15/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 01/28/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.2 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1300	U
100-02-7	4-Nitrophenol	1300	U
132-64-9	Dibenzofuran	510	U
121-14-2	2,4-Dinitrotoluene	510	U
84-66-2	Diethylphthalate	510	U
86-73-7	Fluorene	510	U
7005-72-3	4-Chlorophenyl-phenylether	510	U
100-01-6	4-Nitroaniline	1300	U
534-52-1	4,6-Dinitro-2-methylphenol	1300	U
86-30-6	N-Nitrosodiphenylamine (1)	510	U
101-55-3	4-Bromophenyl-phenylether	510	U
118-74-1	Hexachlorobenzene	510	U
1912-24-9	Atrazine	510	U
87-86-5	Pentachlorophenol	1300	U
85-01-8	Phenanthrene	510	U
120-12-7	Anthracene	510	U
86-74-8	Carbazole	510	U
84-74-2	Di-n-butylphthalate	510	U
206-44-0	Fluoranthene	510	U
129-00-0	Pyrene	510	U
85-68-7	Butylbenzylphthalate	510	U
91-94-1	3,3'-Dichlorobenzidine	510	U
56-55-3	Benzo(a)anthracene	510	U
218-01-9	Chrysene	510	U
117-81-7	bis(2-Ethylhexyl)phthalate	510	U
117-84-0	Di-n-octylphthalate	510	U
205-99-2	Benzo(b)fluoranthene	510	U
207-08-9	Benzo(k)fluoranthene	510	U
50-32-8	Benzo(a)pyrene	510	U
193-39-5	Indeno(1,2,3-cd)pyrene	510	U
53-70-3	Dibenzo(a,h)anthracene	510	U
191-24-2	Benzo(g,h,i)perylene	510	U

ORIGINAL

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CXG55

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix: (soil/water) SOIL Lab Sample ID: 00010150

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GA956

Level: (low/med) LOW Date Received: 01/14/00

% Moisture: 17 Decanted: (Y/N)N Date Extracted: 01/15/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 01/28/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	400	U
108-95-2	Phenol	400	U
111-44-4	bis(2-Chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
98-86-2	Acetophenone	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
120-83-2	2,4-Dichlorophenol	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
87-68-3	Hexachlorobutadiene	400	U
105-60-2	Caprolactam	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	400	U
606-20-2	2,6-Dinitrotoluene	400	U
208-96-8	Acenaphthylene	400	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	400	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. ORIGINAL

CXG55

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix: (soil/water) SOIL Lab Sample ID: 00010150

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GA956

Level: (low/med) LOW Date Received: 01/14/00

% Moisture: 17 Decanted: (Y/N)N Date Extracted: 01/15/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 01/28/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
86-73-7	Fluorene	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
1912-24-9	Atrazine	400	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	400	U
120-12-7	Anthracene	400	U
86-74-8	Carbazole	400	U
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	400	U
129-00-0	Pyrene	400	U
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	U
218-01-9	Chrysene	400	U
117-81-7	bis(2-Ethylhexyl)phthalate	400	U
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	400	U
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	400	U
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	U

ORIGINAL

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CXG56

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix: (soil/water) SOIL Lab Sample ID: 00010151

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GA986

Level: (low/med) LOW Date Received: 01/14/00

% Moisture: 28 Decanted: (Y/N)N Date Extracted: 01/15/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 01/31/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	460	U
108-95-2	Phenol	460	U
111-44-4	bis(2-Chloroethyl)Ether	460	U
95-57-8	2-Chlorophenol	460	U
95-48-7	2-Methylphenol	460	U
108-60-1	2,2'-oxybis(1-Chloropropane)	460	U
98-86-2	Acetophenone	460	U
106-44-5	4-Methylphenol	460	U
621-64-7	N-Nitroso-di-n-propylamine	460	U
67-72-1	Hexachloroethane	460	U
98-95-3	Nitrobenzene	460	U
78-59-1	Isophorone	460	U
88-75-5	2-Nitrophenol	460	U
105-67-9	2,4-Dimethylphenol	460	U
120-83-2	2,4-Dichlorophenol	460	U
91-20-3	Naphthalene	460	U
106-47-8	4-Chloroaniline	460	U
111-91-1	bis(2-Chloroethoxy)methane	460	U
87-68-3	Hexachlorobutadiene	460	U
105-60-2	Caprolactam	460	U
59-50-7	4-Chloro-3-methylphenol	460	U
91-57-6	2-Methylnaphthalene	460	U
77-47-4	Hexachlorocyclopentadiene	460	U
88-06-2	2,4,6-Trichlorophenol	460	U
95-95-4	2,4,5-Trichlorophenol	1200	U
92-52-4	1,1'-Biphenyl	460	U
91-58-7	2-Chloronaphthalene	460	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	460	U
606-20-2	2,6-Dinitrotoluene	460	U
208-96-8	Acenaphthylene	460	U
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	460	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ORIGINAL

EPA SAMPLE NO.

CXG56

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix: (soil/water) SOIL Lab Sample ID: 00010151

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GA986

Level: (low/med) LOW Date Received: 01/14/00

% Moisture: 28 Decanted: (Y/N)N Date Extracted: 01/15/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 01/31/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200	U
100-02-7	4-Nitrophenol	1200	U
132-64-9	Dibenzofuran	460	U
121-14-2	2,4-Dinitrotoluene	460	U
84-66-2	Diethylphthalate	460	U
86-73-7	Fluorene	460	U
7005-72-3	4-Chlorophenyl-phenylether	460	U
100-01-6	4-Nitroaniline	1200	U
534-52-1	4,6-Dinitro-2-methylphenol	1200	U
86-30-6	N-Nitrosodiphenylamine (1)	460	U
101-55-3	4-Bromophenyl-phenylether	460	U
118-74-1	Hexachlorobenzene	460	U
1912-24-9	Atrazine	460	U
87-86-5	Pentachlorophenol	1200	U
85-01-8	Phenanthrene	430	J
120-12-7	Anthracene	83 ~~460~~	~~U~~ J
86-74-8	Carbazole	460	U
84-74-2	Di-n-butylphthalate	460	U
206-44-0	Fluoranthene	940	
129-00-0	Pyrene	870	
85-68-7	Butylbenzylphthalate	160	J
91-94-1	3,3'-Dichlorobenzidine	460	U
56-55-3	Benzo(a)anthracene	480	
218-01-9	Chrysene	540	
117-81-7	bis(2-Ethylhexyl)phthalate	1200	
117-84-0	Di-n-octylphthalate	460	U
205-99-2	Benzo(b)fluoranthene	430	J
207-08-9	Benzo(k)fluoranthene	440	J
50-32-8	Benzo(a)pyrene	480	
193-39-5	Indeno(1,2,3-cd)pyrene	290	J
53-70-3	Dibenzo(a,h)anthracene	110	J
191-24-2	Benzo(g,h,i)perylene	240	J

(1) - Cannot be separated from Diphenylamine

ORIGINAL

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CXG57

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix: (soil/water) SOIL Lab Sample ID: 00010152

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GA987

Level: (low/med) LOW Date Received: 01/14/00

% Moisture: 28 Decanted: (Y/N)N Date Extracted: 01/15/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 01/31/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	460	U
108-95-2	Phenol	460	U
111-44-4	bis(2-Chloroethyl)Ether	460	U
95-57-8	2-Chlorophenol	460	U
95-48-7	2-Methylphenol	460	U
108-60-1	2,2'-oxybis(1-Chloropropane)	460	U
98-86-2	Acetophenone	460	U
106-44-5	4-Methylphenol	460	U
621-64-7	N-Nitroso-di-n-propylamine	460	U
67-72-1	Hexachloroethane	460	U
98-95-3	Nitrobenzene	460	U
78-59-1	Isophorone	460	U
88-75-5	2-Nitrophenol	460	U
105-67-9	2,4-Dimethylphenol	460	U
120-83-2	2,4-Dichlorophenol	460	U
91-20-3	Naphthalene	460	U
106-47-8	4-Chloroaniline	460	U
111-91-1	bis(2-Chloroethoxy)methane	460	U
87-68-3	Hexachlorobutadiene	460	U
105-60-2	Caprolactam	460	U
59-50-7	4-Chloro-3-methylphenol	460	U
91-57-6	2-Methylnaphthalene	460	U
77-47-4	Hexachlorocyclopentadiene	460	U
88-06-2	2,4,6-Trichlorophenol	460	U
95-95-4	2,4,5-Trichlorophenol	1200	U
92-52-4	1,1'-Biphenyl	460	U
91-58-7	2-Chloronaphthalene	460	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	460	U
606-20-2	2,6-Dinitrotoluene	460	U
208-96-8	Acenaphthylene	460	U
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	460	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ORIGINAL

CXG57

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix: (soil/water) SOIL Lab Sample ID: 00010152

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GA987

Level: (low/med) LOW Date Received: 01/14/00

% Moisture: 28 Decanted: (Y/N)N Date Extracted: 01/15/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 01/31/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200	U
100-02-7	4-Nitrophenol	1200	U
132-64-9	Dibenzofuran	460	U
121-14-2	2,4-Dinitrotoluene	460	U
84-66-2	Diethylphthalate	460	U
86-73-7	Fluorene	460	U
7005-72-3	4-Chlorophenyl-phenylether	460	U
100-01-6	4-Nitroaniline	1200	U
534-52-1	4,6-Dinitro-2-methylphenol	1200	U
86-30-6	N-Nitrosodiphenylamine (1)	460	U
101-55-3	4-Bromophenyl-phenylether	460	U
118-74-1	Hexachlorobenzene	460	U
1912-24-9	Atrazine	460	U
87-86-5	Pentachlorophenol	1200	U
85-01-8	Phenanthrene	1200	
120-12-7	Anthracene	250	J
86-74-8	Carbazole	110	J
84-74-2	Di-n-butylphthalate	460	U
206-44-0	Fluoranthene	2000	
129-00-0	Pyrene	1700	
85-68-7	Butylbenzylphthalate	460	U
91-94-1	3,3'-Dichlorobenzidine	460	U
56-55-3	Benzo(a)anthracene	960	
218-01-9	Chrysene	980	
117-81-7	bis(2-Ethylhexyl)phthalate	1200	
117-84-0	Di-n-octylphthalate	460	U
205-99-2	Benzo(b)fluoranthene	760	
207-08-9	Benzo(k)fluoranthene	710	
50-32-8	Benzo(a)pyrene	770	
193-39-5	Indeno(1,2,3-cd)pyrene	430	J
53-70-3	Dibenzo(a,h)anthracene	130	J
191-24-2	Benzo(g,h,i)perylene	320	J

(1) - Cannot be separated from Diphenylamine

ORIGINAL

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CXG58

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix: (soil/water) SOIL Lab Sample ID: 00010153

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GA988

Level: (low/med) LOW Date Received: 01/14/00

% Moisture: 17 Decanted: (Y/N)N Date Extracted: 01/15/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 01/31/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	400	U
108-95-2	Phenol	400	U
111-44-4	bis(2-Chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
98-86-2	Acetophenone	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
120-83-2	2,4-Dichlorophenol	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
87-68-3	Hexachlorobutadiene	400	U
105-60-2	Caprolactam	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	400	U
606-20-2	2,6-Dinitrotoluene	400	U
208-96-8	Acenaphthylene	400	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	400	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. ORIGINAL

CXG58

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix: (soil/water) SOIL Lab Sample ID: 00010153

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GA988

Level: (low/med) LOW Date Received: 01/14/00

% Moisture: 17 Decanted: (Y/N)N Date Extracted: 01/15/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 01/31/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
86-73-7	Fluorene	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
1912-24-9	Atrazine	400	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	330	J
120-12-7	Anthracene	75 ~~400~~	~~U~~ J
86-74-8	Carbazole	400	U
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	560	
129-00-0	Pyrene	540	
85-68-7	Butylbenzylphthalate	100	J
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	320	J
218-01-9	Chrysene	360	J
117-81-7	bis(2-Ethylhexyl)phthalate	1500	
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	290	J
207-08-9	Benzo(k)fluoranthene	290	J
50-32-8	Benzo(a)pyrene	310	J
193-39-5	Indeno(1,2,3-cd)pyrene	230	J
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	190	J

D.V. RSAT 2/23

(1) - Cannot be separated from Diphenylamine

ORIGINAL

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CXG61

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix: (soil/water) SOIL Lab Sample ID: 00010155

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GA957

Level: (low/med) LOW Date Received: 01/14/00

% Moisture: 35 Decanted: (Y/N)N Date Extracted: 01/15/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 01/28/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	510	U
108-95-2	Phenol	510	U
111-44-4	bis(2-Chloroethyl)Ether	510	U
95-57-8	2-Chlorophenol	510	U
95-48-7	2-Methylphenol	510	U
108-60-1	2,2'-oxybis(1-Chloropropane)	510	U
98-86-2	Acetophenone	510	U
106-44-5	4-Methylphenol	510	U
621-64-7	N-Nitroso-di-n-propylamine	510	U
67-72-1	Hexachloroethane	510	U
98-95-3	Nitrobenzene	510	U
78-59-1	Isophorone	510	U
88-75-5	2-Nitrophenol	510	U
105-67-9	2,4-Dimethylphenol	510	U
120-83-2	2,4-Dichlorophenol	510	U
91-20-3	Naphthalene	510	U
106-47-8	4-Chloroaniline	510	U
111-91-1	bis(2-Chloroethoxy)methane	510	U
87-68-3	Hexachlorobutadiene	510	U
105-60-2	Caprolactam	510	U
59-50-7	4-Chloro-3-methylphenol	510	U
91-57-6	2-Methylnaphthalene	510	U
77-47-4	Hexachlorocyclopentadiene	510	U
88-06-2	2,4,6-Trichlorophenol	510	U
95-95-4	2,4,5-Trichlorophenol	1300	U
92-52-4	1,1'-Biphenyl	510	U
91-58-7	2-Chloronaphthalene	510	U
88-74-4	2-Nitroaniline	1300	U
131-11-3	Dimethylphthalate	510	U
606-20-2	2,6-Dinitrotoluene	510	U
208-96-8	Acenaphthylene	510	U
99-09-2	3-Nitroaniline	1300	U
83-32-9	Acenaphthene	510	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. ORIGINAL

CXG61

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix: (soil/water) SOIL Lab Sample ID: 00010155

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GA957

Level: (low/med) LOW Date Received: 01/14/00

% Moisture: 35 Decanted: (Y/N)N Date Extracted: 01/15/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 01/28/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1300	U
100-02-7	4-Nitrophenol	1300	U
132-64-9	Dibenzofuran	510	U
121-14-2	2,4-Dinitrotoluene	510	U
84-66-2	Diethylphthalate	510	U
86-73-7	Fluorene	510	U
7005-72-3	4-Chlorophenyl-phenylether	510	U
100-01-6	4-Nitroaniline	1300	U
534-52-1	4,6-Dinitro-2-methylphenol	1300	U
86-30-6	N-Nitrosodiphenylamine (1)	510	U
101-55-3	4-Bromophenyl-phenylether	510	U
118-74-1	Hexachlorobenzene	510	U
1912-24-9	Atrazine	510	U
87-86-5	Pentachlorophenol	1300	U
85-01-8	Phenanthrene	510	U
120-12-7	Anthracene	510	U
86-74-8	Carbazole	510	U
84-74-2	Di-n-butylphthalate	210	J
206-44-0	Fluoranthene	510	U
129-00-0	Pyrene	510	U
85-68-7	Butylbenzylphthalate	510	U
91-94-1	3,3'-Dichlorobenzidine	510	U
56-55-3	Benzo(a)anthracene	510	U
218-01-9	Chrysene	510	U
117-81-7	bis(2-Ethylhexyl)phthalate	510	U
117-84-0	Di-n-octylphthalate	510	U
205-99-2	Benzo(b)fluoranthene	510	U
207-08-9	Benzo(k)fluoranthene	510	U
50-32-8	Benzo(a)pyrene	510	U
193-39-5	Indeno(1,2,3-cd)pyrene	510	U
53-70-3	Dibenzo(a,h)anthracene	510	U
191-24-2	Benzo(g,h,i)perylene	510	U

ORIGINAL

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CXG64

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix: (soil/water) SOIL Lab Sample ID: 00010149

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GA955

Level: (low/med) LOW Date Received: 01/14/00

% Moisture: 36 Decanted: (Y/N)N Date Extracted: 01/15/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 01/28/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	520	U
108-95-2	Phenol	520	U
111-44-4	bis(2-Chloroethyl)Ether	520	U
95-57-8	2-Chlorophenol	520	U
95-48-7	2-Methylphenol	520	U
108-60-1	2,2'-oxybis(1-Chloropropane)	520	U
98-86-2	Acetophenone	520	U
106-44-5	4-Methylphenol	520	U
621-64-7	N-Nitroso-di-n-propylamine	520	U
67-72-1	Hexachloroethane	520	U
98-95-3	Nitrobenzene	520	U
78-59-1	Isophorone	520	U
88-75-5	2-Nitrophenol	520	U
105-67-9	2,4-Dimethylphenol	520	U
120-83-2	2,4-Dichlorophenol	520	U
91-20-3	Naphthalene	520	U
106-47-8	4-Chloroaniline	520	U
111-91-1	bis(2-Chloroethoxy)methane	520	U
87-68-3	Hexachlorobutadiene	520	U
105-60-2	Caprolactam	520	U
59-50-7	4-Chloro-3-methylphenol	520	U
91-57-6	2-Methylnaphthalene	520	U
77-47-4	Hexachlorocyclopentadiene	520	U
88-06-2	2,4,6-Trichlorophenol	520	U
95-95-4	2,4,5-Trichlorophenol	1300	U
92-52-4	1,1'-Biphenyl	520	U
91-58-7	2-Chloronaphthalene	520	U
88-74-4	2-Nitroaniline	1300	U
131-11-3	Dimethylphthalate	520	U
606-20-2	2,6-Dinitrotoluene	520	U
208-96-8	Acenaphthylene	520	U
99-09-2	3-Nitroaniline	1300	U
83-32-9	Acenaphthene	520	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ORIGINAL

CXG64

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix: (soil/water) SOIL Lab Sample ID: 00010149

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GA955

Level: (low/med) LOW Date Received: 01/14/00

% Moisture: 36 Decanted: (Y/N)N Date Extracted: 01/15/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 01/28/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1300	U
100-02-7	4-Nitrophenol	1300	U
132-64-9	Dibenzofuran	520	U
121-14-2	2,4-Dinitrotoluene	520	U
84-66-2	Diethylphthalate	520	U
86-73-7	Fluorene	520	U
7005-72-3	4-Chlorophenyl-phenylether	520	U
100-01-6	4-Nitroaniline	1300	U
534-52-1	4,6-Dinitro-2-methylphenol	1300	U
86-30-6	N-Nitrosodiphenylamine_(1)	520	U
101-55-3	4-Bromophenyl-phenylether	520	U
118-74-1	Hexachlorobenzene	520	U
1912-24-9	Atrazine	520	U
87-86-5	Pentachlorophenol	1300	U
85-01-8	Phenanthrene	520	U
120-12-7	Anthracene	520	U
86-74-8	Carbazole	520	U
84-74-2	Di-n-butylphthalate	520	U
206-44-0	Fluoranthene	520	U
129-00-0	Pyrene	520	U
85-68-7	Butylbenzylphthalate	520	U
91-94-1	3,3'-Dichlorobenzidine	520	U
56-55-3	Benzo(a)anthracene	520	U
218-01-9	Chrysene	520	U
117-81-7	bis(2-Ethylhexyl)phthalate	520	U
117-84-0	Di-n-octylphthalate	520	U
205-99-2	Benzo(b)fluoranthene	520	U
207-08-9	Benzo(k)fluoranthene	520	U
50-32-8	Benzo(a)pyrene	520	U
193-39-5	Indeno(1,2,3-cd)pyrene	520	U
53-70-3	Dibenzo(a,h)anthracene	520	U
191-24-2	Benzo(g,h,i)perylene	520	U

ORIGINAL

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CXG65

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix: (soil/water) SOIL Lab Sample ID: 00010154

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GB003

Level: (low/med) LOW Date Received: 01/14/00

% Moisture: 26 Decanted: (Y/N)N Date Extracted: 01/15/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 02/01/00

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 6.6 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	890	U
108-95-2	Phenol	890	U
111-44-4	bis(2-Chloroethyl)Ether	890	U
95-57-8	2-Chlorophenol	890	U
95-48-7	2-Methylphenol	890	U
108-60-1	2,2'-oxybis(1-Chloropropane)	890	U
98-86-2	Acetophenone	890	U
106-44-5	4-Methylphenol	890	U
621-64-7	N-Nitroso-di-n-propylamine	890	U
67-72-1	Hexachloroethane	890	U
98-95-3	Nitrobenzene	890	U
78-59-1	Isophorone	890	U
88-75-5	2-Nitrophenol	890	U
105-67-9	2,4-Dimethylphenol	890	U
120-83-2	2,4-Dichlorophenol	890	U
91-20-3	Naphthalene	890	U
106-47-8	4-Chloroaniline	890	U
111-91-1	bis(2-Chloroethoxy)methane	890	U
87-68-3	Hexachlorobutadiene	890	U
105-60-2	Caprolactam	890	U
59-50-7	4-Chloro-3-methylphenol	890	U
91-57-6	2-Methylnaphthalene	890	U
77-47-4	Hexachlorocyclopentadiene	890	U
88-06-2	2,4,6-Trichlorophenol	890	U
95-95-4	2,4,5-Trichlorophenol	2200	U
92-52-4	1,1'-Biphenyl	890	U
91-58-7	2-Chloronaphthalene	890	U
88-74-4	2-Nitroaniline	2200	U
131-11-3	Dimethylphthalate	890	U
606-20-2	2,6-Dinitrotoluene	890	U
208-96-8	Acenaphthylene	890	U
99-09-2	3-Nitroaniline	2200	U
83-32-9	Acenaphthene	230	J

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. ORIGINAL

CXG65

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix: (soil/water) SOIL Lab Sample ID: 00010154

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GB003

Level: (low/med) LOW Date Received: 01/14/00

% Moisture: 26 Decanted: (Y/N)N Date Extracted: 01/15/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 02/01/00

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 6.6 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	2200	U
100-02-7	4-Nitrophenol	2200	U
132-64-9	Dibenzofuran	890	U
121-14-2	2,4-Dinitrotoluene	890	U
84-66-2	Diethylphthalate	890	U
86-73-7	Fluorene	890	U
7005-72-3	4-Chlorophenyl-phenylether	890	U
100-01-6	4-Nitroaniline	2200	U
534-52-1	4,6-Dinitro-2-methylphenol	2200	U
86-30-6	N-Nitrosodiphenylamine (1)	890	U
101-55-3	4-Bromophenyl-phenylether	890	U
118-74-1	Hexachlorobenzene	890	U
1912-24-9	Atrazine	890	U
87-86-5	Pentachlorophenol	2200	U
85-01-8	Phenanthrene	890	U
120-12-7	Anthracene	890	U
86-74-8	Carbazole	890	U
84-74-2	Di-n-butylphthalate	890	U
206-44-0	Fluoranthene	310	J
129-00-0	Pyrene	590	J
85-68-7	Butylbenzylphthalate	890	U
91-94-1	3,3'-Dichlorobenzidine	890	U
56-55-3	Benzo(a)anthracene	890	U
218-01-9	Chrysene	250	J
117-81-7	bis(2-Ethylhexyl)phthalate	3600	
117-84-0	Di-n-octylphthalate	890	U
205-99-2	Benzo(b)fluoranthene	210	J
207-08-9	Benzo(k)fluoranthene	890	U
50-32-8	Benzo(a)pyrene	890	U
193-39-5	Indeno(1,2,3-cd)pyrene	890	U
53-70-3	Dibenzo(a,h)anthracene	890	U
191-24-2	Benzo(g,h,i)perylene	890	U

ORIGINAL

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CXG79

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix: (soil/water) SOIL Lab Sample ID: 00010156

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GA982

Level: (low/med) LOW Date Received: 01/14/00

% Moisture: 23 Decanted: (Y/N)N Date Extracted: 01/17/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 01/31/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Extraction: (Type) SONC

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	430	U
106-44-5	4-Methylphenol	430	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
120-83-2	2,4-Dichlorophenol	430	U
91-20-3	Naphthalene	430	U
106-47-8	4-Chloroaniline	430	U
111-91-1	bis(2-Chloroethoxy)methane	430	U
87-68-3	Hexachlorobutadiene	430	U
105-60-2	Caprolactam	430	U
59-50-7	4-Chloro-3-methylphenol	430	U
91-57-6	2-Methylnaphthalene	430	U
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	430	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	150	J
606-20-2	2,6-Dinitrotoluene	430	U
208-96-8	Acenaphthylene	430	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	430	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ORIGINAL

CXG79

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix: (soil/water) SOIL Lab Sample ID: 00010156

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GA982

Level: (low/med) LOW Date Received: 01/14/00

% Moisture: 23 Decanted: (Y/N)N Date Extracted: 01/17/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 01/31/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	430	U
121-14-2	2,4-Dinitrotoluene	430	U
84-66-2	Diethylphthalate	430	U
86-73-7	Fluorene	430	U
7005-72-3	4-Chlorophenyl-phenylether	430	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	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	1100	U
85-01-8	Phenanthrene	360	J
120-12-7	Anthracene	87	J
86-74-8	Carbazole	430	U
84-74-2	Di-n-butylphthalate	110	J
206-44-0	Fluoranthene	660	
129-00-0	Pyrene	550	
85-68-7	Butylbenzylphthalate	280	J
91-94-1	3,3'-Dichlorobenzidine	430	U
56-55-3	Benzo(a)anthracene	380	J
218-01-9	Chrysene	400	J
117-81-7	bis(2-Ethylhexyl)phthalate	3100	
117-84-0	Di-n-octylphthalate	430	U
205-99-2	Benzo(b)fluoranthene	350	J
207-08-9	Benzo(k)fluoranthene	330	J
50-32-8	Benzo(a)pyrene	360	J
193-39-5	Indeno(1,2,3-cd)pyrene	280	J
53-70-3	Dibenzo(a,h)anthracene	430	U
191-24-2	Benzo(g,h,i)perylene	270	J

(1) - Cannot be separated from Diphenylamine

ORIGINAL

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CXG80

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix: (soil/water) SOIL Lab Sample ID: 00010157

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GA992

Level: (low/med) LOW Date Received: 01/14/00

% Moisture: 36 Decanted: (Y/N)N Date Extracted: 01/17/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 02/01/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	520	U
108-95-2	Phenol	520	U
111-44-4	bis(2-Chloroethyl)Ether	520	U
95-57-8	2-Chlorophenol	520	U
95-48-7	2-Methylphenol	520	U
108-60-1	2,2'-oxybis(1-Chloropropane)	520	U
98-86-2	Acetophenone	520	U
106-44-5	4-Methylphenol	520	U
621-64-7	N-Nitroso-di-n-propylamine	520	U
67-72-1	Hexachloroethane	520	U
98-95-3	Nitrobenzene	520	U
78-59-1	Isophorone	520	U
88-75-5	2-Nitrophenol	520	U
105-67-9	2,4-Dimethylphenol	520	U
120-83-2	2,4-Dichlorophenol	520	U
91-20-3	Naphthalene	520	U
106-47-8	4-Chloroaniline	520	U
111-91-1	bis(2-Chloroethoxy)methane	520	U
87-68-3	Hexachlorobutadiene	520	U
105-60-2	Caprolactam	520	U
59-50-7	4-Chloro-3-methylphenol	520	U
91-57-6	2-Methylnaphthalene	520	U
77-47-4	Hexachlorocyclopentadiene	520	U
88-06-2	2,4,6-Trichlorophenol	520	U
95-95-4	2,4,5-Trichlorophenol	1300	U
92-52-4	1,1'-Biphenyl	520	U
91-58-7	2-Chloronaphthalene	520	U
88-74-4	2-Nitroaniline	1300	U
131-11-3	Dimethylphthalate	520	U
606-20-2	2,6-Dinitrotoluene	520	U
208-96-8	Acenaphthylene	520	U
99-09-2	3-Nitroaniline	1300	U
83-32-9	Acenaphthene	520	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. ORIGINAL

CXG80

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix: (soil/water) SOIL Lab Sample ID: 00010157

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GA992

Level: (low/med) LOW Date Received: 01/14/00

% Moisture: 36 Decanted: (Y/N)N Date Extracted: 01/17/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 02/01/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0 /2.0 D.V. 8SAT

GPC Cleanup: (Y/N) Y pH: 7.6 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1300	U
100-02-7	4-Nitrophenol	1300	U
132-64-9	Dibenzofuran	520	U
121-14-2	2,4-Dinitrotoluene	520	U
84-66-2	Diethylphthalate	520	U
86-73-7	Fluorene	520	U
7005-72-3	4-Chlorophenyl-phenylether	520	U
100-01-6	4-Nitroaniline	1300	U
534-52-1	4,6-Dinitro-2-methylphenol	1300	U
86-30-6	N-Nitrosodiphenylamine (1)	520	U
101-55-3	4-Bromophenyl-phenylether	520	U
118-74-1	Hexachlorobenzene	520	U
1912-24-9	Atrazine	520	U
87-86-5	Pentachlorophenol	1300	U
85-01-8	Phenanthrene	330	J
120-12-7	Anthracene	520	U
86-74-8	Carbazole	520	U
84-74-2	Di-n-butylphthalate	520	U
206-44-0	Fluoranthene	630	
129-00-0	Pyrene	750	
85-68-7	Butylbenzylphthalate	520	U
91-94-1	3,3'-Dichlorobenzidine	520	U
56-55-3	Benzo(a)anthracene	430	J
218-01-9	Chrysene	500	J
117-81-7	bis(2-Ethylhexyl)phthalate	(5100+) 4300	E
117-84-0	Di-n-octylphthalate	520	U
205-99-2	Benzo(b)fluoranthene	380	J
207-08-9	Benzo(k)fluoranthene	310	J
50-32-8	Benzo(a)pyrene	440	J
193-39-5	Indeno(1,2,3-cd)pyrene	270	J
53-70-3	Dibenzo(a,h)anthracene	520	U
191-24-2	Benzo(g,h,i)perylene	390	J

(1) - Cannot be separated from Diphenylamine

+ = Result reported from dilution analysis

ORIGINAL

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CXG82

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix: (soil/water) SOIL Lab Sample ID: 00010159

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GA983

Level: (low/med) LOW Date Received: 01/14/00

% Moisture: 45 Decanted: (Y/N)N Date Extracted: 01/17/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 01/31/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	600	U
108-95-2	Phenol	600	U
111-44-4	bis(2-Chloroethyl)Ether	600	U
95-57-8	2-Chlorophenol	600	U
95-48-7	2-Methylphenol	600	U
108-60-1	2,2'-oxybis(1-Chloropropane)	600	U
98-86-2	Acetophenone	600	U
106-44-5	4-Methylphenol	600	U
621-64-7	N-Nitroso-di-n-propylamine	600	U
67-72-1	Hexachloroethane	600	U
98-95-3	Nitrobenzene	600	U
78-59-1	Isophorone	600	U
88-75-5	2-Nitrophenol	600	U
105-67-9	2,4-Dimethylphenol	600	U
120-83-2	2,4-Dichlorophenol	600	U
91-20-3	Naphthalene	600	U
106-47-8	4-Chloroaniline	600	U
111-91-1	bis(2-Chloroethoxy)methane	600	U
87-68-3	Hexachlorobutadiene	600	U
105-60-2	Caprolactam	600	U
59-50-7	4-Chloro-3-methylphenol	600	U
91-57-6	2-Methylnaphthalene	600	U
77-47-4	Hexachlorocyclopentadiene	600	U
88-06-2	2,4,6-Trichlorophenol	600	U
95-95-4	2,4,5-Trichlorophenol	1500	U
92-52-4	1,1'-Biphenyl	600	U
91-58-7	2-Chloronaphthalene	600	U
88-74-4	2-Nitroaniline	1500	U
131-11-3	Dimethylphthalate	600	U
606-20-2	2,6-Dinitrotoluene	600	U
208-96-8	Acenaphthylene	600	U
99-09-2	3-Nitroaniline	1500	U
83-32-9	Acenaphthene	600	U

ORIGINAL

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CXG82

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix: (soil/water) SOIL Lab Sample ID: 00010159

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GA983

Level: (low/med) LOW Date Received: 01/14/00

% Moisture: 45 Decanted: (Y/N)N Date Extracted: 01/17/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 01/31/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1500	U
100-02-7	4-Nitrophenol	1500	U
132-64-9	Dibenzofuran	600	U
121-14-2	2,4-Dinitrotoluene	600	U
84-66-2	Diethylphthalate	600	U
86-73-7	Fluorene	600	U
7005-72-3	4-Chlorophenyl-phenylether	600	U
100-01-6	4-Nitroaniline	1500	U
534-52-1	4,6-Dinitro-2-methylphenol	1500	U
86-30-6	N-Nitrosodiphenylamine (1)	600	U
101-55-3	4-Bromophenyl-phenylether	600	U
118-74-1	Hexachlorobenzene	600	U
1912-24-9	Atrazine	600	U
87-86-5	Pentachlorophenol	1500	U
85-01-8	Phenanthrene	600	U
120-12-7	Anthracene	600	U
86-74-8	Carbazole	600	U
84-74-2	Di-n-butylphthalate	600	U
206-44-0	Fluoranthene	120	J
129-00-0	Pyrene	600	U
85-68-7	Butylbenzylphthalate	600	U
91-94-1	3,3'-Dichlorobenzidine	600	U
56-55-3	Benzo(a)anthracene	600	U
218-01-9	Chrysene	600	U
117-81-7	bis(2-Ethylhexyl)phthalate	600	U
117-84-0	Di-n-octylphthalate	600	U
205-99-2	Benzo(b)fluoranthene	600	U
207-08-9	Benzo(k)fluoranthene	600	U
50-32-8	Benzo(a)pyrene	600	U
193-39-5	Indeno(1,2,3-cd)pyrene	600	U
53-70-3	Dibenzo(a,h)anthracene	600	U
191-24-2	Benzo(g,h,i)perylene	600	U

(1) - Cannot be separated from Diphenylamine

ORIGINAL

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CXG83

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix: (soil/water) SOIL Lab Sample ID: 00010160

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GA958

Level: (low/med) LOW Date Received: 01/14/00

% Moisture: 21 Decanted: (Y/N)N Date Extracted: 01/17/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 01/28/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	420	U
108-95-2	Phenol	420	U
111-44-4	bis(2-Chloroethyl)Ether	420	U
95-57-8	2-Chlorophenol	420	U
95-48-7	2-Methylphenol	420	U
108-60-1	2,2'-oxybis(1-Chloropropane)	420	U
98-86-2	Acetophenone	420	U
106-44-5	4-Methylphenol	420	U
621-64-7	N-Nitroso-di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
120-83-2	2,4-Dichlorophenol	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
87-68-3	Hexachlorobutadiene	420	U
105-60-2	Caprolactam	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	420	U
606-20-2	2,6-Dinitrotoluene	420	U
208-96-8	Acenaphthylene	420	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	420	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ORIGINAL

EPA SAMPLE NO.

CXG83

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix: (soil/water) SOIL Lab Sample ID: 00010160

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GA958

Level: (low/med) LOW Date Received: 01/14/00

% Moisture: 21 Decanted: (Y/N)N Date Extracted: 01/17/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 01/28/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
86-73-7	Fluorene	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-Nitrosodiphenylamine (1)	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
1912-24-9	Atrazine	420	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	420	U
120-12-7	Anthracene	420	U
86-74-8	Carbazole	420	U
84-74-2	Di-n-butylphthalate	96	J
206-44-0	Fluoranthene	420	U
129-00-0	Pyrene	420	U
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	420	U
218-01-9	Chrysene	420	U
117-81-7	bis(2-Ethylhexyl)phthalate	420	U
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	420	U
207-08-9	Benzo(k)fluoranthene	420	U
50-32-8	Benzo(a)pyrene	420	U
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
53-70-3	Dibenzo(a,h)anthracene	420	U
191-24-2	Benzo(g,h,i)perylene	420	U

ORIGINAL

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CXG84

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix: (soil/water) SOIL Lab Sample ID: 00010161

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GA984

Level: (low/med) LOW Date Received: 01/14/00

% Moisture: 18 Decanted: (Y/N)N Date Extracted: 01/17/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 01/31/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	400	U
108-95-2	Phenol	400	U
111-44-4	bis(2-Chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
98-86-2	Acetophenone	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
120-83-2	2,4-Dichlorophenol	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
87-68-3	Hexachlorobutadiene	400	U
105-60-2	Caprolactam	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	400	U
606-20-2	2,6-Dinitrotoluene	400	U
208-96-8	Acenaphthylene	400	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	400	U

ORIGINAL

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CXG84

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix: (soil/water) SOIL Lab Sample ID: 00010161

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GA984

Level: (low/med) LOW Date Received: 01/14/00

% Moisture: 18 Decanted: (Y/N)N Date Extracted: 01/17/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 01/31/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
86-73-7	Fluorene	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
1912-24-9	Atrazine	400	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	68 ~~400~~	~~U~~ J (D.V)
120-12-7	Anthracene	400	U
86-74-8	Carbazole	400	U
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	180	J
129-00-0	Pyrene	150	J
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	88	J
218-01-9	Chrysene	100	J
117-81-7	bis(2-Ethylhexyl)phthalate	400	U
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	83	J
207-08-9	Benzo(k)fluoranthene	85	J
50-32-8	Benzo(a)pyrene	400	U
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	U

ESAT 2/23

(1) - Cannot be separated from Diphenylamine

ORIGINAL

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CXG85

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix: (soil/water) SOIL Lab Sample ID: 00010162

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GA991

Level: (low/med) LOW Date Received: 01/14/00

% Moisture: 40 Decanted: (Y/N)N Date Extracted: 01/17/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 02/01/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.2 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	550	U
108-95-2	Phenol	550	U
111-44-4	bis(2-Chloroethyl)Ether	550	U
95-57-8	2-Chlorophenol	550	U
95-48-7	2-Methylphenol	550	U
108-60-1	2,2'-oxybis(1-Chloropropane)	550	U
98-86-2	Acetophenone	550	U
106-44-5	4-Methylphenol	550	U
621-64-7	N-Nitroso-di-n-propylamine	550	U
67-72-1	Hexachloroethane	550	U
98-95-3	Nitrobenzene	550	U
78-59-1	Isophorone	550	U
88-75-5	2-Nitrophenol	550	U
105-67-9	2,4-Dimethylphenol	550	U
120-83-2	2,4-Dichlorophenol	550	U
91-20-3	Naphthalene	550	U
106-47-8	4-Chloroaniline	550	U
111-91-1	bis(2-Chloroethoxy)methane	550	U
87-68-3	Hexachlorobutadiene	550	U
105-60-2	Caprolactam	550	U
59-50-7	4-Chloro-3-methylphenol	550	U
91-57-6	2-Methylnaphthalene	550	U
77-47-4	Hexachlorocyclopentadiene	550	U
88-06-2	2,4,6-Trichlorophenol	550	U
95-95-4	2,4,5-Trichlorophenol	1400	U
92-52-4	1,1'-Biphenyl	550	U
91-58-7	2-Chloronaphthalene	550	U
88-74-4	2-Nitroaniline	1400	U
131-11-3	Dimethylphthalate	550	U
606-20-2	2,6-Dinitrotoluene	550	U
208-96-8	Acenaphthylene	550	U
99-09-2	3-Nitroaniline	1400	U
83-32-9	Acenaphthene	550	U

ORIGINAL

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CXG85

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix: (soil/water) SOIL Lab Sample ID: 00010162

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GA991

Level: (low/med) LOW Date Received: 01/14/00

% Moisture: 40 Decanted: (Y/N)N Date Extracted: 01/17/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 02/01/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.2 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1400	U
100-02-7	4-Nitrophenol	1400	U
132-64-9	Dibenzofuran	550	U
121-14-2	2,4-Dinitrotoluene	550	U
84-66-2	Diethylphthalate	550	U
86-73-7	Fluorene	550	U
7005-72-3	4-Chlorophenyl-phenylether	550	U
100-01-6	4-Nitroaniline	1400	U
534-52-1	4,6-Dinitro-2-methylphenol	1400	U
86-30-6	N-Nitrosodiphenylamine (1)	550	U
101-55-3	4-Bromophenyl-phenylether	550	U
118-74-1	Hexachlorobenzene	550	U
1912-24-9	Atrazine	550	U
87-86-5	Pentachlorophenol	1400	U
85-01-8	Phenanthrene	460	J
120-12-7	Anthracene	63 ~~550~~	~~U~~ J (D. 2/2
86-74-8	Carbazole	550	U
84-74-2	Di-n-butylphthalate	550	U
206-44-0	Fluoranthene	790	
129-00-0	Pyrene	850	
85-68-7	Butylbenzylphthalate	550	U
91-94-1	3,3'-Dichlorobenzidine	550	U
56-55-3	Benzo(a)anthracene	380	J
218-01-9	Chrysene	440	J
117-81-7	bis(2-Ethylhexyl)phthalate	150	J
117-84-0	Di-n-octylphthalate	550	U
205-99-2	Benzo(b)fluoranthene	300	J
207-08-9	Benzo(k)fluoranthene	330	J
50-32-8	Benzo(a)pyrene	320	J
193-39-5	Indeno(1,2,3-cd)pyrene	250	J
53-70-3	Dibenzo(a,h)anthracene	550	U
191-24-2	Benzo(g,h,i)perylene	230	J

(1) - Cannot be separated from Diphenylamine

011560

ORIGINAL

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CXG81

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix: (soil/water) WATER Lab Sample ID: 00010158

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GA924

Level: (low/med) LOW Date Received: 01/14/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 01/18/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	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
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ORIGINAL

CXG81

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix: (soil/water) WATER Lab Sample ID: 00010158

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GA924

Level: (low/med) LOW Date Received: 01/14/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 01/18/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	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-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

ORIGINAL

Appendix D

Support Documentation

EPA United States Environmental Protection Agency Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

Case No. 27734

ORIGINAL

1. Project Code	Account Code	2. Region No.	Sampling Co.	4. Date Shipped	Carrier
6090		3	weston	1/13/2000	FEDEX

Regional Information

Sampler (Name) (b) (4) [redacted] (b) (4)

Airbill Number 8132 3850 4397

Non-Superfund Program

Sampler Signature Paul M. [illegible]

Site Name 12th Street Landfill

City, State Wilmington, DE

Site Spill ID

3. Purpose*
Lead: [X] SF [ ] PRP [ ] ST [ ] FED
Early Action: [ ] CLEM [ ] PA [X] REM [ ] RI [ ] SI [ ] ESI
Long-Term Action: [ ] FS [ ] RD [ ] RA [ ] O&M [ ] NPLD

5. Ship To
Envirosystems, Inc.
9200 Rumsey Rd.
Columbia, MD 21045
ATTN: Mohan Khare

6. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify in Column A)

7. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify in Column D)
N. Not preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) / Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 7) / Other:	E RAS Analysis: VOA	BNA	Pest/PCB	High only / ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank S = Spike D = Duplicate R = Rinsate PE = Perform. Eval. — = Not a QC Sample)
CXG54	5	L	G	5		X			3-3009628	TS-SED-10	1/11/00/1035	MCYJ54	PD EB	
CXG64	5	L	G	5		X			3-3009629	TS-SED-15	1/11/00/1110	MCYJ55	PD EB	D 1/13/00
CXG55	5	L	G	5		X			3-3009630	TS-SED-17	1/11/00/1135	MCYJ56	PD EB	D 1/13/00
CXG56	5	L	G	5		X			3-3009633	TS-SS-08	1/11/00/1415	MCYJ57	PD EB	
CXG57	5	L	G	5		X			3-3009634	TS-SS-10	1/11/00/1450	MCYJ59	PD EB	
CXG58	5	L	G	5		X			3-3009635	TS-SS-12	1/11/00/1515	MCYJ62	PD EB	D 1/13/00
CXG65	5	L	G	5		X			3-3009631	TS-SED-18	1/12/00/0835	MCYJ61	PD EB	
CXG61	5	L	G	5		X			3-3009632	TS-SED-28	1/12/00/1000	MCYJ67	PD EB	
CXG79	5	L	G	5		X			3-3009636	TS-SB-04	1/13/00/0850	MCYJ77	PD EB	
CXG80	5	L	G	5		X			3-3009637	TS-SB-08	1/13/00/1015	MCYJ78	PD EB	

Shipment for Case Complete? (Y/N) Y

Page 1 of 2

Sample(s) to be Used for Laboratory QC: CXG58

Additional Sampler Signatures: (b) (4) [redacted]

Chain of Custody Seal Number(s)

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
(b) (4) [redacted]	1/13/00 1715				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	

A21-012-15 REV

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - CLASS Copy; Yellow - Lab Copy for Return to CLASS

EPA Form 9110-2 (2/98)

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

206701

EPA United States Environmental Protection Agency Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

Case No. 27734

1. Project Code: 6090	Account Code:	2. Region No.: 3	Sampling Co.: Weston	4. Date Shipped: 1/13/2000	Carrier: Fed EX
Regional Information	(b) (4) [redacted]			Airbill Number: 8132 3850 4397	
Non-Superfund Program		Sampler Signature: Paul A. D[illegible]		5. Ship To: Envirosystems, Inc. 9200 Rumsey Rd. Columbia, MD 21045 ATTN: Mohan Khare	
Site Name: 12th Street Landfill		3. Purpose*: Lead: [X] SF [ ] PRP [ ] ST [ ] FED; Early Action: [ ] CLEM [ ] PA [X] REM [ ] RI [ ] SI [ ] ESI; Long-Term Action: [ ] FS [ ] RD [ ] RA [ ] O&M [ ] NPLD			
City, State: Wilmington, DE	Site Spill ID				

6. Matrix (Enter in Column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (Specify in Column A)

7. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. Other (Specify in Column D) N. Not preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other:	E RAS Analysis: VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank S = Spike D = Duplicate R = Rinsate PE = Perform. Eval. — = Not a QC Sample)
CXG81	4	L	G	5		X			3-3009644 – 3-3009645	TS-RB-01	1/13/00/1130	MCYJ79	PD MA EB	B
CXG82	5	L	G	5		X			3-3009639	TS-BG-01	1/13/00/1250	MCYJ93	PD MA EB	
CXG83	5	L	G	5		X			3-3009641	TS-BG-02	1/13/00/1255	MCYJ94	PD MA EB	
CXG84	5	L	G	5		X			3-3009643	TS-BG-03	1/13/00/1300	MCYJ95	PD MA EB	
CXG85	5	L	G	5		X			3-3009649	TS-FD-01	1/11/00/0000	MCYJ96	PD MA EB	D:CXG64

Shipment for Case Complete? (Y/N): Y

Page 2 of 2

Sample(s) to be Used for Laboratory QC: (b) (4) [redacted]

Chain of Custody Seal Number(s):

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
(b) (4) [redacted]	1/13/00 1715				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - CLASS Copy; Yellow - Lab Copy for Return to CLASS

EPA Form 9110-2 (2/98)

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

ORIGINAL

012-15 REV.

ORIGINAL

PAGE 1 OF 1

EPA SAMPLE SHIPPING LOG

(1) (REQUIRED FOR ALL SAMPLES SENT THROUGH THE CONTRACT LAB PROGRAM)

PROJECT SITE NAME: 12th Street Landfill ; EPA PROJECT OFFICER: Mike Towle

RAS NO. 27734 ; DAS NO. _____ ; TASK OR SET NO. 1

PROJECT SITE LEADER: (b) (4) ; PHONE NO.(856) 461-4003

PROJECT SAMPLE COORDINATOR: (b) (4) ; PHONE NO.(856) 461-4003

ORGANICS OR INORGANICS

QC SAMPLE INFO AND/OR COMMENTS	CONC. (low/ med/ high)	SAMPLE PHASE (aq/ sol)	TYPE OR REQUEST org, dio inor, SAS	SAMPLE TRAFFIC REPORT NUMBER	LAB NAME	DATE SHIPPED	DATA RECEIVED (XX OUT ITEMS NOT REQUESTED) VOA	BNA	PEST	TCDD	METALS	CN
(2)	(3)	(4)	(5)	(6)	(7)	(8)	<-------(9)------->					
	LOW	SOL	ORG	CXG54	ENVSYS	13-Jan-00	XX	✓	XX	XX	XX	XX
	LOW	SOL	ORG	CXG55	ENVSYS	13-Jan-00	XX	✓	XX	XX	XX	XX
	LOW	SOL	ORG	CXG56	ENVSYS	13-Jan-00	XX	✓	XX	XX	XX	XX
	LOW	SOL	ORG	CXG57	ENVSYS	13-Jan-00	XX	✓	XX	XX	XX	XX
	LOW	SOL	ORG	CXG58	ENVSYS	13-Jan-00	XX	✓	XX	XX	XX	XX
	LOW	SOL	ORG	CXG61	ENVSYS	13-Jan-00	XX	✓	XX	XX	XX	XX
	LOW	SOL	ORG	CXG64	ENVSYS	13-Jan-00	XX	✓	XX	XX	XX	XX
	LOW	SOL	ORG	CXG65	ENVSYS	13-Jan-00	XX	✓	XX	XX	XX	XX
	LOW	SOL	ORG	CXG79	ENVSYS	13-Jan-00	XX	✓	XX	XX	XX	XX
	LOW	SOL	ORG	CXG80	ENVSYS	13-Jan-00	XX	✓	XX	XX	XX	XX
Rinsate Blank	LOW	AQ	ORG	CXG81	ENVSYS	13-Jan-00	XX	✓	XX	XX	XX	XX
	LOW	SOL	ORG	CXG82	ENVSYS	13-Jan-00	XX	✓	XX	XX	XX	XX
	LOW	SOL	ORG	CXG83	ENVSYS	13-Jan-00	XX	✓	XX	XX	XX	XX
~~DUP CXG64~~	LOW	SOL	ORG	CXG84	ENVSYS	13-Jan-00	XX	✓	XX	XX	XX	XX
Dup CXG64	LOW	SOL	ORG	CXG85	ENVSYS	11-Jan-00	XX	✓	XX	XX	XX	XX
(D.V.)								rec'd	2/4/00			
Per COC												

SAS REQUEST:(DETALIS REQUIRED)

LAB NAME	SAS REQUEST (itemize)	DATE SHIPPED	DATA REC'D
(11)	(12)	(13)	

FINAL SAMPLING: YES X ; NO _____ ; FINAL SHIPPING DATE: 1 September 1999

(14)

CXG51

ORIGINAL

SDG NARRATIVE

LABORATORY NAME: ENVIROSYSTEMS, INC.

CASE #: 27734 SDG #: CXG54 REGION: III

CONTRACT: 68-W9-9022

DATE SAMPLES RECEIVED AT LABORATORY: 14 JANUARY 2000

SAMPLE ANALYSES INCLUDED IN THIS REPORT:

EPA SAMPLE #	LAB ID #	ANALYSIS	MATRIX
CXG54	00010148	BNA	SOIL
CXG64	00010149	BNA	SOIL
CXG55	00010150	BNA	SOIL
CXG56	00010151	BNA	SOIL
CXG57	00010152	BNA	SOIL
CXG58	00010153	BNA	SOIL
CXG65	00010154	BNA	SOIL
CXG61	00010155	BNA	SOIL
CXG79	00010156	BNA	SOIL
CXG80	00010157	BNA	SOIL
CXG80DL	00010157	BNA	SOIL
CXG81	00010158	BNA	WATER
CXG82	00010159	BNA	SOIL
CXG83	00010160	BNA	SOIL
CXG84	00010161	BNA	SOIL
CXG85	00010162	BNA	SOIL

Samples for this contract are analyzed by EPA SOW OLM04.2 for multi-media, multi-concentration organics.

All instances where GC/MS manual integration was necessary are initialled and dated by the analyst.

The semi-volatile analysis was performed using a HP-5MS 30 meter column with an inner diameter of 0.25 mm and a 0.25 micron film thickness.

All surrogate recoveries were method compliant.

Three of the eighteen MS/MSD recoveries were outside the advisory QC limits. Six of the nine MS/MSD RPD values were outside the advisory QC limits.

Sample CXG65 was initially analyzed at a two fold dilution, due to matrix interference. Sample CXG80 was reanalyzed at a two fold dilution to bring the concentration of target analytes within calibration range.

The continuing calibration check for 21-JAN-2000 had the percent difference for analyte 2-Methylnaphthalene above the inclusive range of +/- 40.0 percent. 2-Methylnaphthalene was not detected in any of the samples referenced by this

ORIGINAL

continuing calibration.

All other QC criteria were met for all samples in this report.

I CERTIFY THAT THIS DATA PACKAGE IS IN COMPLIANCE WITH THE TERMS AND CONDITIONS OF THE CONTRACT, BOTH TECHNICALLY AND FOR COMPLETENESS, FOR OTHER THAN THE CONDITIONS DETAILED ABOVE. RELEASE OF THE DATA CONTAINED IN THIS HARDCOPY DATA PACKAGE AND IN THE COMPUTER-READABLE DATA SUBMITTED ON DISKETTE HAS BEEN AUTHORIZED BY THE LABORATORY MANAGER OR HIS\HER DESIGNEE, AS VERIFIED BY THE FOLLOWING SIGNATURE:

(b) (4) [redacted] DATE: 2/3/00

03 February 2000

Organics Section Manager

ORIGINAL

U.S. EPA Region III Sample Scheduling Request Form

RAS CASE No: 27734	DAS No:	NSF No:
Date: 12/30/99	Data Validation Level: IM1	EPA Lab Reply: No
Site Name: 12th Street Landfill		
Address: 12th Street 2000T03N50102DD330QB00	City: Wilmington, New Castle Co.	State: DE
Latitude:	Longitude:	Altitude:
Program: Superfund	CERCLIS No:	Activity: Removal Assessment
Account No: 00T03N50102DD330QB00	Operable Unit:	Spill ID: E0D30
Preparer: (b) (4) [redacted]	RPM/PO: Michael Towle	Site Leader: (b) (4) [redacted]
Phone: (b) (4) [redacted]	Phone: 215-814-3272	Phone: (b) (4) [redacted]
FAX: 856-461-4916	FAX: 215-814-3254	FAX: 856-461-4916
E-mail: (b) (4) [redacted]	E-mail: towle.michael@epa.gov	E-mail: (b) (4) [redacted]
EPA CO: Deborah Eble	Contract Type: SATA / Prime: Weston	Sub:
Lab Assignment Date: 01/07/00	TAT: 14 days	Shipping From: 01/11/00
Organic Lab: Envirosystems		Shipping To: 01/12/00
Inorganic Lab: SWOK		Carrier: Fed Ex

SAMPLES	METHOD	PARAMETER	MATRIX
27	ILM04.0	TAL Metals 17020	SOIL/SED
11	OLM03.2	SVOA 17019	Soil/Sed
1	ILM04.0	TAL Metals 17020	Rinsate
1	OLM03.2	SVOA 17019	Rinsate
		1-11-00	

NOTE: Data validation levels M3 & IM2 require justification. QC field samples must be included as part of total number of samples.

1. Special Instructions: OSC needs verbal results faxed to the above number by 4 February 2000.
2. Objectives / Project Plan ID / Permit ID:
3. Program / Project / Permit Reporting Limits As per method
4. DQO (QC Requirements) As per method

ORIGINAL

SAMPLE LOG-IN SHEET

Lab Name: Envirosystems

Page 1 of 1

Received By (Print Name): (b) (4) [redacted]

Log-in Date: 1/14/00

Received By (Signature): (b) (4) [redacted]

Case Number: 27734

Sample Delivery Group No.: CXG54

SAS Number:

REMARKS:

1. Custody Seal(s) — Present/Absent* Intact/Broken
2. Custody Seal Nos.:
3. Chain-of-Custody Records — Present/Absent*
4. Traffic Reports or Packing List — Present/Absent*
5. Airbill — Airbill/Sticker Present/Absent*
6. Airbill No.: 813238504397
7. Sample Tags — Present/Absent*
   Sample Tag Numbers — Listed/Not Listed on Chain-of-Custody
8. Sample Condition: Intact/Broken*/Leaking
9. Does information on custody records, traffic reports, and sample tags agree? Yes/No*
10. Date Received at Lab: 1/14/00
11. Time Received: 1020am

Sample Transfer

Practice:

Area #:

By:

On:

EPA SAMPLE #	CORRESPONDING SAMPLE TAG #	CORRESPONDING ASSIGNED LAB #	REMARKS: CONDITION OF SAMPLE SHIPMENT, ETC.
CXG54	3-3009628	00010148	Samples
CXG64	3-3009629	149	preserved on
CXG55	3-3009630	150	ice.
CXG56	3-3009633	151	
CXG57	3-3009634	152	
CXG58	3-3009635	153	
CXG65	3-3009631	154	
CXG61	3-3009632	155	
CXG79	3-3009636	156	
CXG80	3-3009637	157	
CXG81	3-3009644-5	158	
CXG82	3-3009639	159	
CXG83	3-3009641	160	
CXG84	3-3009643	161	
CXG85	3-3009649	162	

* Contact SMO and attach record of resolution

Reviewed By:

Date:

Logbook No.:

Logbook Page No:

FORM DC-1

WESTON 3 Underwood Court, Delran, New Jersey 08075-1229
856-461-4005 • 215-238-0338 • Fax 856-461-4910

SITE ASSESSMENT TECHNICAL ASSISTANCE

EPA CONTRACT 68-S5-3003

ORIGINAL

Validator

14 February 2000

MEMO TO FILE
CASE # 27734
12th STREET LANDFILL

RSCC
U.S. EPA Region III OAS/QA
Environmental Science Center
701 Mapes Road
Ft, Meade, MD 20755

Dear (b) (4) [redacted]

This memo to file is written to correct the omission of sampling time on tag number 3-3009639. The correct sampling time is 1250. Please note these changes.

Please feel free to contact me at (215) 238-0338, Ext. 243 if you have any questions.

Very truly yours,

ROY F. WESTON, INC.

(b) (4) [redacted]

for sampler (b) (4) [redacted]

cc: SATA TDD Files
EPA OSC Mike Towle (3HS31)

FEB-14-00 MON 11:08 AM WESTON-SATA FAX NO. 16094614001 P. 3

ORIGINAL

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Instrument ID: HP73G Calibration Date(s): 01/19/00 01/19/00

Calibration Time(s): 1339 1646

LAB FILE ID: RRF20 = H73GA902 RRF50 = H73GA901
RRF80 = H73GA903 RRF120= H73GA904 RRF160= H73GA905

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD	
Benzaldehyde	0.920	0.781	0.697	0.505	0.424	0.665	30.4	
Phenol *	1.484	1.378	1.380	1.284	1.370	1.379	5.1*	
bis(2-Chloroethyl)Ether *	1.149	1.091	1.064	1.063	1.099	1.093	3.2*	
2-Chlorophenol *	1.303	1.217	1.191	1.135	1.172	1.204	5.2*	
2-Methylphenol *	1.117	1.069	1.050	1.046	1.055	1.067	2.7*	
2,2'-oxybis(1-Chloropropane)	1.245	1.175	1.134	1.154	1.174	1.176	3.6	
Acetophenone	1.597	1.572	1.614	1.523	1.556	1.572	2.3	
4-Methylphenol *	1.013	1.019	0.987	1.049	1.066	1.027	3.0*	
N-Nitroso-di-n-propylamine *	0.823	0.779	0.758	0.750	0.775	0.777	3.7*	
Hexachloroethane *	0.648	0.601	0.621	0.617	0.596	0.617	3.3*	
Nitrobenzene *	0.366	0.359	0.345	0.348	0.339	0.351	3.0*	
Isophorone *	0.702	0.664	0.649	0.647	0.619	0.656	4.6*	
2-Nitrophenol *	0.196	0.180	0.184	0.180	0.189	0.186	3.7*	
2,4-Dimethylphenol *	0.237	0.245	0.262	0.266	0.282	0.258	6.8*	
2,4-Dichlorophenol *	0.304	0.309	0.307	0.296	0.307	0.305	1.6*	
Naphthalene *	1.105	0.999	0.980	0.944	0.927	0.991	7.1*	
4-Chloroaniline	0.167	0.250	0.314	0.321	0.339	0.278	25.4	
bis(2-Chloroethoxy)methane *	0.363	0.348	0.327	0.335	0.344	0.343	4.0*	
Hexachlorobutadiene	0.269	0.258	0.251	0.248	0.235	0.252	5.0	
Caprolactam	0.090	0.094	0.096	0.095	0.099	0.095	3.3	
4-Chloro-3-methylphenol *	0.261	0.272	0.269	0.268	0.286	0.271	3.4*	
2-Methylnaphthalene *	0.632	0.592	0.590	0.583	0.594	0.598	3.2*	
Hexachlorocyclopentadiene	0.269	0.194	0.315	0.321	0.321	0.284	19.4	
2,4,6-Trichlorophenol *	0.399	0.360	0.359	0.326	0.344	0.358	7.5*	
2,4,5-Trichlorophenol *		0.415	0.418	0.400	0.414	0.412	1.9*	<-
1,1'-Biphenyl	1.503	1.493	1.467	1.394	1.395	1.450	3.6	
2-Chloronaphthalene *	1.245	1.167	1.145	1.107	1.074	1.148	5.7*	
2-Nitroaniline		0.288	0.293	0.297	0.311	0.297	3.2	<-
Dimethylphthalate	1.354	1.279	1.223	1.220	1.255	1.266	4.3	
2,6-Dinitrotoluene *	0.315	0.307	0.302	0.298	0.295	0.303	2.6*	
Acenaphthylene *	1.862	1.669	1.682	1.627	1.626	1.693	5.8*	
3-Nitroaniline		0.199	0.253	0.254	0.274	0.245	13.1	<-
Acenaphthene *	1.166	1.076	1.077	1.036	1.050	1.081	4.7*	
2,4-Dinitrophenol		0.098	0.132	0.143	0.167	0.135	21.1	<-
4-Nitrophenol		0.135	0.140	0.138	0.155	0.142	6.2	<-
Dibenzofuran *	1.630	1.530	1.506	1.465	1.483	1.523	4.2*	

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

040600

ORIGINAL

6D

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Instrument ID: HP73G Calibration Date(s): 01/19/00 01/19/00

Calibration Time(s): 1339 1646

LAB FILE ID: RRF20 = H73GA902 RRF50 = H73GA901
RRF80 = H73GA903 RRF120= H73GA904 RRF160= H73GA905

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD	
2,4-Dinitrotoluene *	0.389	0.385	0.391	0.381	0.379	0.385	1.3*	
Diethylphthalate	1.255	1.200	1.161	1.162	1.205	1.197	3.2	
Fluorene *	1.295	1.199	1.206	1.178	1.186	1.213	3.9*	
4-Chlorophenyl-phenylether *	0.705	0.661	0.645	0.640	0.668	0.664	3.9*	
4-Nitroaniline		0.219	0.238	0.225	0.238	0.230	4.3	<-
4,6-Dinitro-2-methylphenol		0.122	0.138	0.141	0.152	0.138	8.8	<-
N-Nitrosodiphenylamine (1)	0.554	0.523	0.508	0.502	0.500	0.517	4.3	
4-Bromophenyl-phenylether *	0.277	0.268	0.254	0.258	0.258	0.263	3.5*	
Hexachlorobenzene *	0.284	0.282	0.271	0.263	0.252	0.270	4.8*	
Atrazine	0.224	0.078	0.104	0.032	0.014	0.090	91.6	
Pentachlorophenol *		0.052	0.080	0.084	0.095	0.078	23.7*	<-
Phenanthrene *	1.210	1.114	1.112	1.071	1.040	1.109	5.8*	
Anthracene *	1.167	1.070	1.093	1.045	1.023	1.080	5.1*	
Carbazole	0.925	0.687	0.813	0.823	0.857	0.821	10.6	
Di-n-butylphthalate	1.225	1.243	1.163	1.159	1.148	1.188	3.6	
Fluoranthene *	1.224	1.136	1.146	1.099	1.082	1.137	4.8*	
Pyrene *	1.288	1.172	1.165	1.111	1.111	1.169	6.2*	
Butylbenzylphthalate	0.480	0.474	0.457	0.456	0.479	0.469	2.5	
3,3'-Dichlorobenzidine	0.362	0.264	0.328	0.299	0.291	0.309	12.2	
Benzo(a)anthracene *	1.116	1.042	1.058	1.018	1.030	1.053	3.6*	
Chrysene *	1.072	0.994	1.004	0.980	0.977	1.005	3.9*	
bis(2-Ethylhexyl)phthalate	0.598	0.608	0.590	0.599	0.623	0.604	2.1	
Di-n-octylphthalate	1.282	1.355	1.232	1.255	1.282	1.281	3.6	
Benzo(b)fluoranthene *	1.280	1.230	1.187	1.217	1.231	1.229	2.7*	
Benzo(k)fluoranthene *	1.319	1.279	1.254	1.197	1.180	1.246	4.6*	
Benzo(a)pyrene *	1.155	1.142	1.127	1.106	1.090	1.124	2.3*	
Indeno(1,2,3-cd)pyrene *	1.027	1.069	1.043	0.992	0.986	1.023	3.4*	
Dibenzo(a,h)anthracene *	0.899	0.920	0.903	0.881	0.878	0.896	1.9*	
Benzo(g,h,i)perylene *	1.130	1.103	1.096	1.015	1.013	1.071	5.0*	
Nitrobenzene-d5 *	0.400	0.364	0.361	0.350	0.361	0.367	5.2*	
2-Fluorobiphenyl *	1.523	1.373	1.338	1.244	1.278	1.351	8.0*	
Terphenyl-d14 *	1.111	1.010	0.994	0.923	0.940	0.996	7.5*	
Phenol-d5 *	1.335	1.192	1.200	1.168	1.196	1.218	5.5*	
2-Fluorophenol *	1.172	1.073	1.050	1.064	1.051	1.082	4.7*	
2,4,6-Tribromophenol	0.120	0.112	0.113	0.113	0.112	0.114	2.9	
2-Chlorophenol-d4 *	1.381	1.271	1.257	1.256	1.240	1.281	4.4*	
1,2-Dichlorobenzene-d4 *	0.951	0.878	0.879	0.837	0.852	0.879	5.0*	

(1) Cannot be separated from Diphenylamine
* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

ORIGINAL

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Instrument ID: HP73G Calibration Date: 01/19/00 Time: 1339

Lab File ID: H73GA901 Init. Calib. Date(s): 01/19/00 01/19/00

EPA Sample No.(SSTD050##): SSTD050GV Init. Calib. Times: 1339 1646

GC Column: HP-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Benzaldehyde	0.665	0.781		17.4	
Phenol	1.379	1.378	0.800	-0.1	25.0
bis(2-Chloroethyl)Ether	1.093	1.091	0.700	-0.2	25.0
2-Chlorophenol	1.204	1.217	0.800	1.1	25.0
2-Methylphenol	1.067	1.069	0.700	0.2	25.0
2,2'-oxybis(1-Chloropropane)	1.176	1.175		-0.1	
Acetophenone	1.572	1.572		0.0	
4-Methylphenol	1.027	1.019	0.600	-0.8	25.0
N-Nitroso-di-n-propylamine	0.777	0.779	0.500	0.3	25.0
Hexachloroethane	0.617	0.601	0.300	-2.6	25.0
Nitrobenzene	0.351	0.359	0.200	2.3	25.0
Isophorone	0.656	0.664	0.400	1.2	25.0
2-Nitrophenol	0.186	0.180	0.100	-3.2	25.0
2,4-Dimethylphenol	0.258	0.245	0.200	-5.0	25.0
2,4-Dichlorophenol	0.305	0.309	0.200	1.3	25.0
Naphthalene	0.991	0.999	0.700	0.8	25.0
4-Chloroaniline	0.278	0.250		-10.1	
bis(2-Chloroethoxy)methane	0.343	0.348	0.300	1.5	25.0
Hexachlorobutadiene	0.252	0.258		2.4	
Caprolactam	0.095	0.094		-1.1	
4-Chloro-3-methylphenol	0.271	0.272	0.200	0.4	25.0
2-Methylnaphthalene	0.598	0.592	0.400	-1.0	25.0
Hexachlorocyclopentadiene	0.284	0.194		-31.7	
2,4,6-Trichlorophenol	0.358	0.360	0.200	0.6	25.0
2,4,5-Trichlorophenol	0.412	0.415	0.200	0.7	25.0
1,1'-Biphenyl	1.450	1.493		3.0	
2-Chloronaphthalene	1.148	1.167	0.800	1.7	25.0
2-Nitroaniline	0.297	0.288		-3.0	
Dimethylphthalate	1.266	1.279		1.0	
2,6-Dinitrotoluene	0.303	0.307	0.200	1.3	25.0
Acenaphthylene	1.693	1.669	1.300	-1.4	25.0
3-Nitroaniline	0.245	0.199		-18.8	
Acenaphthene	1.081	1.076	0.900	-0.5	25.0
2,4-Dinitrophenol	0.135	0.098		-27.4	
4-Nitrophenol	0.142	0.135		-4.9	
Dibenzofuran	1.523	1.530	0.800	0.5	25.0

All other compounds must meet a minimum RRF of 0.010.

ORIGINAL

7D

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Instrument ID: HP73G Calibration Date: 01/19/00 Time: 1339

Lab File ID: H73GA901 Init. Calib. Date(s): 01/19/00 01/19/00

EPA Sample No.(SSTD050##): SSTD050GV Init. Calib. Times: 1339 1646

GC Column: HP-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D	
2,4-Dinitrotoluene	0.385	0.385	0.200	0.0	25.0	
Diethylphthalate	1.197	1.200		0.3		
Fluorene	1.213	1.199	0.900	-1.2	25.0	
4-Chlorophenyl-phenylether	0.664	0.661	0.400	-0.5	25.0	
4-Nitroaniline	0.230	0.219		-4.8		
4,6-Dinitro-2-methylphenol	0.138	0.122		-11.6		
N-Nitrosodiphenylamine(1)	0.517	0.523		1.2		
4-Bromophenyl-phenylether	0.263	0.268	0.100	1.9	25.0	
Hexachlorobenzene	0.270	0.282	0.100	4.4	25.0	
Atrazine	0.090	0.078		-13.3		
Pentachlorophenol	0.078	0.052	0.050	-33.3	25.0	<-
Phenanthrene	1.109	1.114	0.700	0.5	25.0	
Anthracene	1.080	1.070	0.700	-0.9	25.0	
Carbazole	0.821	0.687		-16.3		
Di-n-butylphthalate	1.188	1.243		4.6		
Fluoranthene	1.137	1.136	0.600	-0.1	25.0	
Pyrene	1.169	1.172	0.600	0.3	25.0	
Butylbenzylphthalate	0.469	0.474		1.1		
3,3'-Dichlorobenzidine	0.309	0.264		-14.6		
Benzo(a)anthracene	1.053	1.042	0.800	-1.0	25.0	
Chrysene	1.005	0.994	0.700	-1.1	25.0	
bis(2-Ethylhexyl)phthalate	0.604	0.608		0.7		
Di-n-octylphthalate	1.281	1.355		5.8		
Benzo(b)fluoranthene	1.229	1.230	0.700	0.1	25.0	
Benzo(k)fluoranthene	1.246	1.279	0.700	2.6	25.0	
Benzo(a)pyrene	1.124	1.142	0.700	1.6	25.0	
Indeno(1,2,3-cd)pyrene	1.023	1.069	0.500	4.5	25.0	
Dibenzo(a,h)anthracene	0.896	0.920	0.400	2.7	25.0	
Benzo(g,h,i)perylene	1.071	1.103	0.500	3.0	25.0	
Nitrobenzene-d5	0.367	0.364	0.200	-0.8	25.0	
2-Fluorobiphenyl	1.351	1.373	0.700	1.6	25.0	
Terphenyl-d14	0.996	1.010	0.500	1.4	25.0	
Phenol-d5	1.218	1.192	0.800	-2.1	25.0	
2-Fluorophenol	1.082	1.073	0.600	-0.8	25.0	
2,4,6-Tribromophenol	0.114	0.112		-1.8		
2-Chlorophenol-d4	1.281	1.271	0.800	-0.8	25.0	
1,2-Dichlorobenzene-d4	0.879	0.878	0.400	-0.1	25.0	

(1) Cannot be separated from Diphenylamine

All other compounds must meet a minimum RRF of 0.010.

FORM VII SV-2 OLM04.2

ORIGINAL

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Instrument ID: HP73G Calibration Date: 01/21/00 Time: 1503

Lab File ID: H73GA921 Init. Calib. Date(s): 01/19/00 01/19/00

EPA Sample No.(SSTD050##): SSTD050GX Init. Calib. Times: 1339 1646

GC Column: HP-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D	
Benzaldehyde	0.665	0.837		25.9		
Phenol	1.379	1.541	0.800	11.7	25.0	
bis(2-Chloroethyl)Ether	1.093	1.213	0.700	11.0	25.0	
2-Chlorophenol	1.204	1.290	0.800	7.1	25.0	
2-Methylphenol	1.067	1.176	0.700	10.2	25.0	
2,2'-oxybis(1-Chloropropane)	1.176	1.451		23.4		
Acetophenone	1.572	1.725		9.7		
4-Methylphenol	1.027	1.166	0.600	13.5	25.0	
N-Nitroso-di-n-propylamine	0.777	0.890	0.500	14.5	25.0	
Hexachloroethane	0.617	0.628	0.300	1.8	25.0	
Nitrobenzene	0.351	0.357	0.200	1.7	25.0	
Isophorone	0.656	0.691	0.400	5.3	25.0	
2-Nitrophenol	0.186	0.186	0.100	0.0	25.0	
2,4-Dimethylphenol	0.258	0.244	0.200	-5.4	25.0	
2,4-Dichlorophenol	0.305	0.313	0.200	2.6	25.0	
Naphthalene	0.991	0.989	0.700	-0.2	25.0	
4-Chloroaniline	0.278	0.309		11.2		
bis(2-Chloroethoxy)methane	0.343	0.347	0.300	1.2	25.0	
Hexachlorobutadiene	0.252	0.233		-7.5		
Caprolactam	0.095	0.097		2.1		
4-Chloro-3-methylphenol	0.271	0.295	0.200	8.9	25.0	
2-Methylnaphthalene	0.598	0.847	0.400	41.6	25.0	<-
Hexachlorocyclopentadiene	0.284	0.136		-52.1		
2,4,6-Trichlorophenol	0.358	0.352	0.200	-1.7	25.0	
2,4,5-Trichlorophenol	0.412	0.412	0.200	0.0	25.0	
1,1'-Biphenyl	1.450	1.506		3.9		
2-Chloronaphthalene	1.148	1.147	0.800	-0.1	25.0	
2-Nitroaniline	0.297	0.316		6.4		
Dimethylphthalate	1.266	1.280		1.1		
2,6-Dinitrotoluene	0.303	0.306	0.200	1.0	25.0	
Acenaphthylene	1.693	1.660	1.300	-1.9	25.0	
3-Nitroaniline	0.245	0.225		-8.2		
Acenaphthene	1.081	1.059	0.900	-2.0	25.0	
2,4-Dinitrophenol	0.135	0.102		-24.4		
4-Nitrophenol	0.142	0.125		-12.0		
Dibenzofuran	1.523	1.545	0.800	1.4	25.0	

All other compounds must meet a minimum RRF of 0.010.

SAMPLE NO.
SBLK23
CXG81

FORM VII SV-1 OLM04.2

7D

SEMIVOLATILE CONTINUING CALIBRATION CHECK

ORIGINAL

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Instrument ID: HP73G Calibration Date: 01/21/00 Time: 1503

Lab File ID: H73GA921 Init. Calib. Date(s): 01/19/00 01/19/00

EPA Sample No.(SSTD050##): SSTD050GX Init. Calib. Times: 1339 1646

GC Column: HP-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
2,4-Dinitrotoluene	0.385	0.395	0.200	2.6	25.0
Diethylphthalate	1.197	1.260		5.3	
Fluorene	1.213	1.251	0.900	3.1	25.0
4-Chlorophenyl-phenylether	0.664	0.693	0.400	4.4	25.0
4-Nitroaniline	0.230	0.196		-14.8	
4,6-Dinitro-2-methylphenol	0.138	0.123		-10.9	
N-Nitrosodiphenylamine(1)	0.517	0.498		-3.7	
4-Bromophenyl-phenylether	0.263	0.263	0.100	0.0	25.0
Hexachlorobenzene	0.270	0.280	0.100	3.7	25.0
Atrazine	0.090	0.062		-31.1	
Pentachlorophenol	0.078	0.076	0.050	-2.6	25.0
Phenanthrene	1.109	1.106	0.700	-0.3	25.0
Anthracene	1.080	1.050	0.700	-2.8	25.0
Carbazole	0.821	0.748		-8.9	
Di-n-butylphthalate	1.188	1.332		12.1	
Fluoranthene	1.137	1.106	0.600	-2.7	25.0
Pyrene	1.169	1.347	0.600	15.2	25.0
Butylbenzylphthalate	0.469	0.611		30.3	
3,3'-Dichlorobenzidine	0.309	0.195		-36.9	
Benzo(a)anthracene	1.053	1.058	0.800	0.5	25.0
Chrysene	1.005	0.990	0.700	-1.5	25.0
bis(2-Ethylhexyl)phthalate	0.604	0.889		47.2	
Di-n-octylphthalate	1.281	2.198		71.6	
Benzo(b)fluoranthene	1.229	1.398	0.700	13.8	25.0
Benzo(k)fluoranthene	1.246	1.409	0.700	13.1	25.0
Benzo(a)pyrene	1.124	1.188	0.700	5.7	25.0
Indeno(1,2,3-cd)pyrene	1.023	0.827	0.500	-19.2	25.0
Dibenzo(a,h)anthracene	0.896	0.709	0.400	-20.9	25.0
Benzo(g,h,i)perylene	1.071	0.830	0.500	-22.5	25.0
Nitrobenzene-d5	0.367	0.371	0.200	1.1	25.0
2-Fluorobiphenyl	1.351	1.335	0.700	-1.2	25.0
Terphenyl-d14	0.996	1.144	0.500	14.9	25.0
Phenol-d5	1.218	1.436	0.800	17.9	25.0
2-Fluorophenol	1.082	1.084	0.600	0.2	25.0
2,4,6-Tribromophenol	0.114	0.113		-0.9	
2-Chlorophenol-d4	1.281	1.360	0.800	6.2	25.0
1,2-Dichlorobenzene-d4	0.879	0.887	0.400	0.9	25.0

(1) Cannot be separated from Diphenylamine

All other compounds must meet a minimum RRF of 0.010.

FORM VII SV-2 OLM04.2

ORIGINAL

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Instrument ID: HP73G Calibration Date: 01/28/00 Time: 1056

Lab File ID: H73GA951 Init. Calib. Date(s): 01/19/00 01/19/00

EPA Sample No.(SSTD050##): SSTD050GE Init. Calib. Times: 1339 1646

GC Column: HP-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D	
Benzaldehyde	0.665	0.828		24.5		
Phenol	1.379	1.562	0.800	13.3	25.0	
bis(2-Chloroethyl)Ether	1.093	1.200	0.700	9.8	25.0	
2-Chlorophenol	1.204	1.269	0.800	5.4	25.0	
2-Methylphenol	1.067	1.131	0.700	6.0	25.0	
2,2'-oxybis(1-Chloropropane)	1.176	1.482		26.0		
Acetophenone	1.572	1.691		7.6		
4-Methylphenol	1.027	1.114	0.600	8.5	25.0	
N-Nitroso-di-n-propylamine	0.777	0.870	0.500	12.0	25.0	
Hexachloroethane	0.617	0.663	0.300	7.5	25.0	
Nitrobenzene	0.351	0.375	0.200	6.8	25.0	
Isophorone	0.656	0.708	0.400	7.9	25.0	
2-Nitrophenol	0.186	0.188	0.100	1.1	25.0	
2,4-Dimethylphenol	0.258	0.242	0.200	-6.2	25.0	
2,4-Dichlorophenol	0.305	0.300	0.200	-1.6	25.0	
Naphthalene	0.991	0.978	0.700	-1.3	25.0	
4-Chloroaniline	0.278	0.329		18.3		
bis(2-Chloroethoxy)methane	0.343	0.361	0.300	5.2	25.0	
Hexachlorobutadiene	0.252	0.242		-4.0		
Caprolactam	0.095	0.094		-1.1		
4-Chloro-3-methylphenol	0.271	0.288	0.200	6.3	25.0	
2-Methylnaphthalene	0.598	0.824	0.400	37.8	25.0	<-
Hexachlorocyclopentadiene	0.284	0.155		-45.4		
2,4,6-Trichlorophenol	0.358	0.329	0.200	-8.1	25.0	
2,4,5-Trichlorophenol	0.412	0.383	0.200	-7.0	25.0	
1,1'-Biphenyl	1.450	1.508		4.0		
2-Chloronaphthalene	1.148	1.148	0.800	0.0	25.0	
2-Nitroaniline	0.297	0.323		8.8		
Dimethylphthalate	1.266	1.252		-1.1		
2,6-Dinitrotoluene	0.303	0.299	0.200	-1.3	25.0	
Acenaphthylene	1.693	1.627	1.300	-3.9	25.0	
3-Nitroaniline	0.245	0.248		1.2		
Acenaphthene	1.081	1.072	0.900	-0.8	25.0	
2,4-Dinitrophenol	0.135	0.112		-17.0		
4-Nitrophenol	0.142	0.128		-9.9		
Dibenzofuran	1.523	1.535	0.800	0.8	25.0	

All other compounds must meet a minimum RRF of 0.010.

SAMPLE NO.
SBLK19
SBLK17
CXG54
CXG64
CXG55
CXG61
CXG83

FORM VII SV-1 OLM04.2

7D

SEMIVOLATILE CONTINUING CALIBRATION CHECK

ORIGINAL

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Instrument ID: HP73G Calibration Date: 01/28/00 Time: 1056

Lab File ID: H73GA951 Init. Calib. Date(s): 01/19/00 01/19/00

EPA Sample No.(SSTD050##): SSTD050GE Init. Calib. Times: 1339 1646

GC Column: HP-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
2,4-Dinitrotoluene	0.385	0.379	0.200	-1.6	25.0
Diethylphthalate	1.197	1.203		0.5	
Fluorene	1.213	1.234	0.900	1.7	25.0
4-Chlorophenyl-phenylether	0.664	0.665	0.400	0.2	25.0
4-Nitroaniline	0.230	0.214		-7.0	
4,6-Dinitro-2-methylphenol	0.138	0.137		-0.7	
N-Nitrosodiphenylamine(1)	0.517	0.506		-2.1	
4-Bromophenyl-phenylether	0.263	0.265	0.100	0.8	25.0
Hexachlorobenzene	0.270	0.282	0.100	4.4	25.0
Atrazine	0.090	0.019		-78.9	
Pentachlorophenol	0.078	0.065	0.050	-16.7	25.0
Phenanthrene	1.109	1.115	0.700	0.5	25.0
Anthracene	1.080	1.049	0.700	-2.9	25.0
Carbazole	0.821	0.759		-7.6	
Di-n-butylphthalate	1.188	1.264		6.4	
Fluoranthene	1.137	1.130	0.600	-0.6	25.0
Pyrene	1.169	1.314	0.600	12.4	25.0
Butylbenzylphthalate	0.469	0.541		15.4	
3,3'-Dichlorobenzidine	0.309	0.256		-17.2	
Benzo(a)anthracene	1.053	1.056	0.800	0.3	25.0
Chrysene	1.005	1.002	0.700	-0.3	25.0
bis(2-Ethylhexyl)phthalate	0.604	0.767		27.0	
Di-n-octylphthalate	1.281	1.616		26.2	
Benzo(b)fluoranthene	1.229	1.322	0.700	7.6	25.0
Benzo(k)fluoranthene	1.246	1.394	0.700	11.9	25.0
Benzo(a)pyrene	1.124	1.196	0.700	6.4	25.0
Indeno(1,2,3-cd)pyrene	1.023	0.959	0.500	-6.3	25.0
Dibenzo(a,h)anthracene	0.896	0.834	0.400	-6.9	25.0
Benzo(g,h,i)perylene	1.071	1.033	0.500	-3.5	25.0
Nitrobenzene-d5	0.367	0.379	0.200	3.3	25.0
2-Fluorobiphenyl	1.351	1.324	0.700	-2.0	25.0
Terphenyl-d14	0.996	1.081	0.500	8.5	25.0
Phenol-d5	1.218	1.357	0.800	11.4	25.0
2-Fluorophenol	1.082	1.101	0.600	1.8	25.0
2,4,6-Tribromophenol	0.114	0.109		-4.4	
2-Chlorophenol-d4	1.281	1.338	0.800	4.4	25.0
1,2-Dichlorobenzene-d4	0.879	0.890	0.400	1.3	25.0

(1) Cannot be separated from Diphenylamine

All other compounds must meet a minimum RRF of 0.010.

FORM VII SV-2 OLM04.2

ORIGINAL

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Instrument ID: HP73G Calibration Date: 01/31/00 Time: 1659

Lab File ID: H73GA981 Init. Calib. Date(s): 01/19/00 01/19/00

EPA Sample No.(SSTD050##): SSTD050GH Init. Calib. Times: 1339 1646

GC Column: HP-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Benzaldehyde	0.665	0.573		-13.8	
Phenol	1.379	1.370	0.800	-0.7	25.0
bis(2-Chloroethyl)Ether	1.093	1.143	0.700	4.6	25.0
2-Chlorophenol	1.204	1.246	0.800	3.5	25.0
2-Methylphenol	1.067	1.103	0.700	3.4	25.0
2,2'-oxybis(1-Chloropropane)	1.176	1.383		17.6	
Acetophenone	1.572	1.612		2.5	
4-Methylphenol	1.027	1.116	0.600	8.7	25.0
N-Nitroso-di-n-propylamine	0.777	0.788	0.500	1.4	25.0
Hexachloroethane	0.617	0.586	0.300	-5.0	25.0
Nitrobenzene	0.351	0.357	0.200	1.7	25.0
Isophorone	0.656	0.669	0.400	2.0	25.0
2-Nitrophenol	0.186	0.189	0.100	1.6	25.0
2,4-Dimethylphenol	0.258	0.230	0.200	-10.9	25.0
2,4-Dichlorophenol	0.305	0.299	0.200	-2.0	25.0
Naphthalene	0.991	0.989	0.700	-0.2	25.0
4-Chloroaniline	0.278	0.194		-30.2	
bis(2-Chloroethoxy)methane	0.343	0.357	0.300	4.1	25.0
Hexachlorobutadiene	0.252	0.234		-7.1	
Caprolactam	0.095	0.085		-10.5	
4-Chloro-3-methylphenol	0.271	0.288	0.200	6.3	25.0
2-Methylnaphthalene	0.598	0.607	0.400	1.5	25.0
Hexachlorocyclopentadiene	0.284	0.118		-58.5	
2,4,6-Trichlorophenol	0.358	0.332	0.200	-7.3	25.0
2,4,5-Trichlorophenol	0.412	0.391	0.200	-5.1	25.0
1,1'-Biphenyl	1.450	1.511		4.2	
2-Chloronaphthalene	1.148	1.153	0.800	0.4	25.0
2-Nitroaniline	0.297	0.276		-7.1	
Dimethylphthalate	1.266	1.245		-1.7	
2,6-Dinitrotoluene	0.303	0.285	0.200	-5.9	25.0
Acenaphthylene	1.693	1.584	1.300	-6.4	25.0
3-Nitroaniline	0.245	0.134		-45.3	
Acenaphthene	1.081	1.064	0.900	-1.6	25.0
2,4-Dinitrophenol	0.135	0.120		-11.1	
4-Nitrophenol	0.142	0.103		-27.5	
Dibenzofuran	1.523	1.533	0.800	0.7	25.0

All other compounds must meet a minimum RRF of 0.010.

SAMPLE NO.
CXG79
CXG82
CXG84
CXG56
CXG57
CXG58
CXG58MS
CXG58MSD
CXG85
CXG80

FORM VII SV-1 OLM04.2

SEMIVOLATILE CONTINUING CALIBRATION CHECK

ORIGINAL

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Instrument ID: HP73G Calibration Date: 01/31/00 Time: 1659

Lab File ID: H73GA981 Init. Calib. Date(s): 01/19/00 01/19/00

EPA Sample No.(SSTD050##): SSTD050GH Init. Calib. Times: 1339 1646

GC Column: HP-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D	
2,4-Dinitrotoluene	0.385	0.352	0.200	-8.6	25.0	
Diethylphthalate	1.197	1.160		-3.1		
Fluorene	1.213	1.207	0.900	-0.5	25.0	
4-Chlorophenyl-phenylether	0.664	0.662	0.400	-0.3	25.0	
4-Nitroaniline	0.230	0.124		-46.1		
4,6-Dinitro-2-methylphenol	0.138	0.119		-13.8		
N-Nitrosodiphenylamine(1)	0.517	0.482		-6.8		
4-Bromophenyl-phenylether	0.263	0.261	0.100	-0.8	25.0	
Hexachlorobenzene	0.270	0.282	0.100	4.4	25.0	
Atrazine	0.090	0.027		-70.0		
Pentachlorophenol	0.078	0.109	0.050	39.7	25.0	<-
Phenanthrene	1.109	1.098	0.700	-1.0	25.0	
Anthracene	1.080	1.014	0.700	-6.1	25.0	
Carbazole	0.821	0.591		-28.0		
Di-n-butylphthalate	1.188	1.220		2.7		
Fluoranthene	1.137	1.133	0.600	-0.4	25.0	
Pyrene	1.169	1.283	0.600	9.8	25.0	
Butylbenzylphthalate	0.469	0.542		15.6		
3,3'-Dichlorobenzidine	0.309	0.099		-68.0		
Benzo(a)anthracene	1.053	1.027	0.800	-2.5	25.0	
Chrysene	1.005	1.004	0.700	-0.1	25.0	
bis(2-Ethylhexyl)phthalate	0.604	0.788		30.5		
Di-n-octylphthalate	1.281	2.173		69.6		
Benzo(b)fluoranthene	1.229	1.566	0.700	27.4	25.0	<-
Benzo(k)fluoranthene	1.246	1.530	0.700	22.8	25.0	
Benzo(a)pyrene	1.124	1.239	0.700	10.2	25.0	
Indeno(1,2,3-cd)pyrene	1.023	0.812	0.500	-20.6	25.0	
Dibenzo(a,h)anthracene	0.896	0.740	0.400	-17.4	25.0	
Benzo(g,h,i)perylene	1.071	0.862	0.500	-19.5	25.0	
Nitrobenzene-d5	0.367	0.358	0.200	-2.5	25.0	
2-Fluorobiphenyl	1.351	1.354	0.700	0.2	25.0	
Terphenyl-d14	0.996	1.074	0.500	7.8	25.0	
Phenol-d5	1.218	1.324	0.800	8.7	25.0	
2-Fluorophenol	1.082	0.987	0.600	-8.8	25.0	
2,4,6-Tribromophenol	0.114	0.108		-5.3		
2-Chlorophenol-d4	1.281	1.287	0.800	0.5	25.0	
1,2-Dichlorobenzene-d4	0.879	0.885	0.400	0.7	25.0	

(1) Cannot be separated from Diphenylamine

All other compounds must meet a minimum RRF of 0.010.

FORM VII SV-2 OLM04.2

~~055~~

655

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

ORIGINAL

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Instrument ID: HP73G Calibration Date: 02/01/00 Time: 1419

Lab File ID: H73GB001 Init. Calib. Date(s): 01/19/00 01/19/00

EPA Sample No.(SSTD050##): SSTD050GI Init. Calib. Times: 1339 1646

GC Column: HP-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Benzaldehyde	0.665	0.657		-1.2	
Phenol	1.379	1.460	0.800	5.9	25.0
bis(2-Chloroethyl)Ether	1.093	1.161	0.700	6.2	25.0
2-Chlorophenol	1.204	1.284	0.800	6.6	25.0
2-Methylphenol	1.067	1.043	0.700	-2.2	25.0
2,2'-oxybis(1-Chloropropane)	1.176	1.245		5.9	
Acetophenone	1.572	1.564		-0.5	
4-Methylphenol	1.027	1.059	0.600	3.1	25.0
N-Nitroso-di-n-propylamine	0.777	0.750	0.500	-3.5	25.0
Hexachloroethane	0.617	0.613	0.300	-0.6	25.0
Nitrobenzene	0.351	0.347	0.200	-1.1	25.0
Isophorone	0.656	0.622	0.400	-5.2	25.0
2-Nitrophenol	0.186	0.166	0.100	-10.8	25.0
2,4-Dimethylphenol	0.258	0.226	0.200	-12.4	25.0
2,4-Dichlorophenol	0.305	0.303	0.200	-0.7	25.0
Naphthalene	0.991	0.978	0.700	-1.3	25.0
4-Chloroaniline	0.278	0.257		-7.6	
bis(2-Chloroethoxy)methane	0.343	0.333	0.300	-2.9	25.0
Hexachlorobutadiene	0.252	0.250		-0.8	
Caprolactam	0.095	0.082		-13.7	
4-Chloro-3-methylphenol	0.271	0.280	0.200	3.3	25.0
2-Methylnaphthalene	0.598	0.602	0.400	0.7	25.0
Hexachlorocyclopentadiene	0.284	0.130		-54.2	
2,4,6-Trichlorophenol	0.358	0.314	0.200	-12.3	25.0
2,4,5-Trichlorophenol	0.412	0.390	0.200	-5.3	25.0
1,1'-Biphenyl	1.450	1.493		3.0	
2-Chloronaphthalene	1.148	1.137	0.800	-1.0	25.0
2-Nitroaniline	0.297	0.283		-4.7	
Dimethylphthalate	1.266	1.210		-4.4	
2,6-Dinitrotoluene	0.303	0.276	0.200	-8.9	25.0
Acenaphthylene	1.693	1.560	1.300	-7.9	25.0
3-Nitroaniline	0.245	0.157		-35.9	
Acenaphthene	1.081	1.040	0.900	-3.8	25.0
2,4-Dinitrophenol	0.135	0.108		-20.0	
4-Nitrophenol	0.142	0.128		-9.9	
Dibenzofuran	1.523	1.525	0.800	0.1	25.0

All other compounds must meet a minimum RRF of 0.010.

SAMPLE NO.
CXG80DL
CXG65

FORM VII SV-1 OLM04.2

021667

7D

SEMIVOLATILE CONTINUING CALIBRATION CHECK

ORIGINAL

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Instrument ID: HP73G Calibration Date: 02/01/00 Time: 1419

Lab File ID: H73GB001 Init. Calib. Date(s): 01/19/00 01/19/00

EPA Sample No.(SSTD050##): SSTD050GI Init. Calib. Times: 1339 1646

GC Column: HP-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D	
2,4-Dinitrotoluene	0.385	0.341	0.200	-11.4	25.0	
Diethylphthalate	1.197	1.142		-4.6		
Fluorene	1.213	1.209	0.900	-0.3	25.0	
4-Chlorophenyl-phenylether	0.664	0.674	0.400	1.5	25.0	
4-Nitroaniline	0.230	0.131		-43.0		
4,6-Dinitro-2-methylphenol	0.138	0.116		-15.9		
N-Nitrosodiphenylamine(1)	0.517	0.494		-4.4		
4-Bromophenyl-phenylether	0.263	0.264	0.100	0.4	25.0	
Hexachlorobenzene	0.270	0.279	0.100	3.3	25.0	
Atrazine	0.090	0.007		-92.2		
Pentachlorophenol	0.078	0.098	0.050	25.6	25.0	<-
Phenanthrene	1.109	1.108	0.700	-0.1	25.0	
Anthracene	1.080	1.043	0.700	-3.4	25.0	
Carbazole	0.821	0.545		-33.6		
Di-n-butylphthalate	1.188	1.190		0.2		
Fluoranthene	1.137	1.148	0.600	1.0	25.0	
Pyrene	1.169	1.255	0.600	7.4	25.0	
Butylbenzylphthalate	0.469	0.500		6.6		
3,3'-Dichlorobenzidine	0.309	0.183		-40.8		
Benzo(a)anthracene	1.053	1.060	0.800	0.7	25.0	
Chrysene	1.005	0.985	0.700	-2.0	25.0	
bis(2-Ethylhexyl)phthalate	0.604	0.712		17.9		
Di-n-octylphthalate	1.281	1.582		23.5		
Benzo(b)fluoranthene	1.229	1.401	0.700	14.0	25.0	
Benzo(k)fluoranthene	1.246	1.417	0.700	13.7	25.0	
Benzo(a)pyrene	1.124	1.212	0.700	7.8	25.0	
Indeno(1,2,3-cd)pyrene	1.023	0.957	0.500	-6.5	25.0	
Dibenzo(a,h)anthracene	0.896	0.822	0.400	-8.3	25.0	
Benzo(g,h,i)perylene	1.071	0.985	0.500	-8.0	25.0	
Nitrobenzene-d5	0.367	0.359	0.200	-2.2	25.0	
2-Fluorobiphenyl	1.351	1.337	0.700	-1.0	25.0	
Terphenyl-d14	0.996	1.055	0.500	5.9	25.0	
Phenol-d5	1.218	1.395	0.800	14.5	25.0	
2-Fluorophenol	1.082	1.142	0.600	5.5	25.0	
2,4,6-Tribromophenol	0.114	0.102		-10.5		
2-Chlorophenol-d4	1.281	1.358	0.800	6.0	25.0	
1,2-Dichlorobenzene-d4	0.879	0.874	0.400	-0.6	25.0	

(1) Cannot be separated from Diphenylamine

All other compounds must meet a minimum RRF of 0.010.

FORM VII SV-2 OLM04.2

ORIGINAL

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	SBLK19	48	48	54	45	44	47	45	44	0
02	SBLK17	32	40	46	40	36	48	37	22	0
03	CXG54	54	54	56	52	52	63	52	38	0
04	CXG64	54	56	58	55	53	67	53	40	0
05	CXG55	60	62	62	60	56	61	57	44	0
06	CXG61	50	52	52	49	48	63	48	36	0
07	CXG83	24	26*	28	25	24*	31	24	14*	3
08	CXG79	40	40	50	40	41	49	43	36	0
09	CXG82	48	50	56	48	53	49	52	46	0
10	CXG84	60	64	82	63	63	65	63	56	0
11	CXG56	60	62	72	61	63	56	64	54	0
12	CXG57	46	48	56	48	52	40	51	42	0
13	CXG58	66	66	80	65	69	69	69	56	0
14	CXG58MS	64	64	74	72	69	67	68	56	0
15	CXG58MSD	46	46	58	48	48	44	45	40	0
16	CXG85	50	50	66	47	55	51	51	46	0
17	CXG80	32	36	52	31	36	41	33	30	0
18	CXG80DL	36D	40D	52D	32D	38D	50D	34D	32D	0
19	CXG65	72D	72D	92D	66D	58D	82D	70D	64D	0
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(23-120)	
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)	
S3 (TPH)	= Terphenyl-d14	(18-137)	
S4 (PHL)	= Phenol-d5	(24-113)	
S5 (2FP)	= 2-Fluorophenol	(25-121)	
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)	
S7 (2CP)	= 2-Chlorophenol-d4	(20-130)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(20-130)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ORIGINAL

CXG80DL

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix: (soil/water) SOIL Lab Sample ID: 00010157DL

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GB002

Level: (low/med) LOW Date Received: 01/14/00

% Moisture: 36 Decanted: (Y/N)N Date Extracted: 01/17/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 02/01/00

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.6 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	1000	U
108-95-2	Phenol	1000	U
111-44-4	bis(2-Chloroethyl)Ether	1000	U
95-57-8	2-Chlorophenol	1000	U
95-48-7	2-Methylphenol	1000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	1000	U
98-86-2	Acetophenone	1000	U
106-44-5	4-Methylphenol	1000	U
621-64-7	N-Nitroso-di-n-propylamine	1000	U
67-72-1	Hexachloroethane	1000	U
98-95-3	Nitrobenzene	1000	U
78-59-1	Isophorone	1000	U
88-75-5	2-Nitrophenol	1000	U
105-67-9	2,4-Dimethylphenol	1000	U
120-83-2	2,4-Dichlorophenol	1000	U
91-20-3	Naphthalene	1000	U
106-47-8	4-Chloroaniline	1000	U
111-91-1	bis(2-Chloroethoxy)methane	1000	U
87-68-3	Hexachlorobutadiene	1000	U
105-60-2	Caprolactam	1000	U
59-50-7	4-Chloro-3-methylphenol	1000	U
91-57-6	2-Methylnaphthalene	1000	U
77-47-4	Hexachlorocyclopentadiene	1000	U
88-06-2	2,4,6-Trichlorophenol	1000	U
95-95-4	2,4,5-Trichlorophenol	2600	U
92-52-4	1,1'-Biphenyl	1000	U
91-58-7	2-Chloronaphthalene	1000	U
88-74-4	2-Nitroaniline	2600	U
131-11-3	Dimethylphthalate	1000	U
606-20-2	2,6-Dinitrotoluene	1000	U
208-96-8	Acenaphthylene	1000	U
99-09-2	3-Nitroaniline	2600	U
83-32-9	Acenaphthene	1000	U

ORIGINAL

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CXG80DL

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix: (soil/water) SOIL Lab Sample ID: 00010157DL

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GB002

Level: (low/med) LOW Date Received: 01/14/00

% Moisture: 36 Decanted: (Y/N)N Date Extracted: 01/17/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 02/01/00

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.6 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	2600	U
100-02-7	4-Nitrophenol	2600	U
132-64-9	Dibenzofuran	1000	U
121-14-2	2,4-Dinitrotoluene	1000	U
84-66-2	Diethylphthalate	1000	U
86-73-7	Fluorene	1000	U
7005-72-3	4-Chlorophenyl-phenylether	1000	U
100-01-6	4-Nitroaniline	2600	U
534-52-1	4,6-Dinitro-2-methylphenol	2600	U
86-30-6	N-Nitrosodiphenylamine (1)	1000	U
101-55-3	4-Bromophenyl-phenylether	1000	U
118-74-1	Hexachlorobenzene	1000	U
1912-24-9	Atrazine	1000	U
87-86-5	Pentachlorophenol	2600	U
85-01-8	Phenanthrene	370	DJ
120-12-7	Anthracene	1000	U
86-74-8	Carbazole	1000	U
84-74-2	Di-n-butylphthalate	1000	U
206-44-0	Fluoranthene	800	DJ
129-00-0	Pyrene	790	DJ
85-68-7	Butylbenzylphthalate	1000	U
91-94-1	3,3'-Dichlorobenzidine	1000	U
56-55-3	Benzo(a)anthracene	460	DJ
218-01-9	Chrysene	590	DJ
117-81-7	bis(2-Ethylhexyl)phthalate	5100	D
117-84-0	Di-n-octylphthalate	1000	U
205-99-2	Benzo(b)fluoranthene	390	DJ
207-08-9	Benzo(k)fluoranthene	400	DJ
50-32-8	Benzo(a)pyrene	470	DJ
193-39-5	Indeno(1,2,3-cd)pyrene	280	DJ
53-70-3	Dibenzo(a,h)anthracene	1000	U
191-24-2	Benzo(g,h,i)perylene	370	DJ

ORIGINAL

Data File: \\CHEMSTATION01\D\CHEM\hp73g.i\27734.b\H73GA986.D

Date : 31-JAN-2000 20:59

Client ID: CXG56

Instrument: hp73g.i

Sample Info: 00010151, CXG56

Volume Injected (uL): 2.0

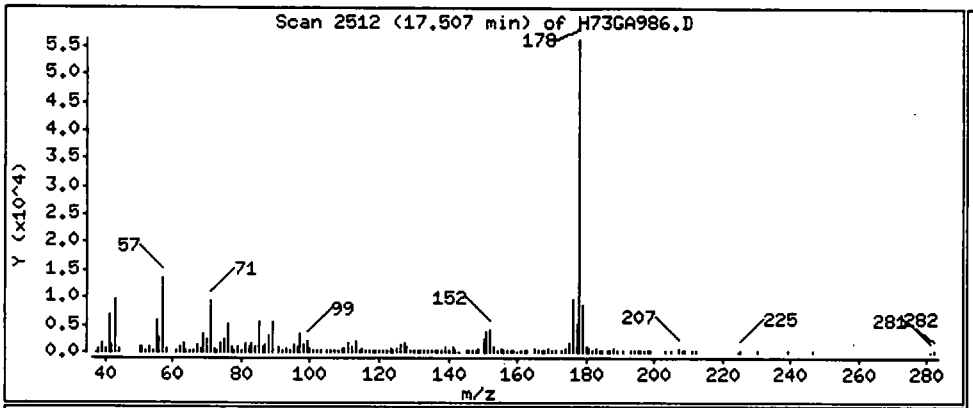
Operator: JBN

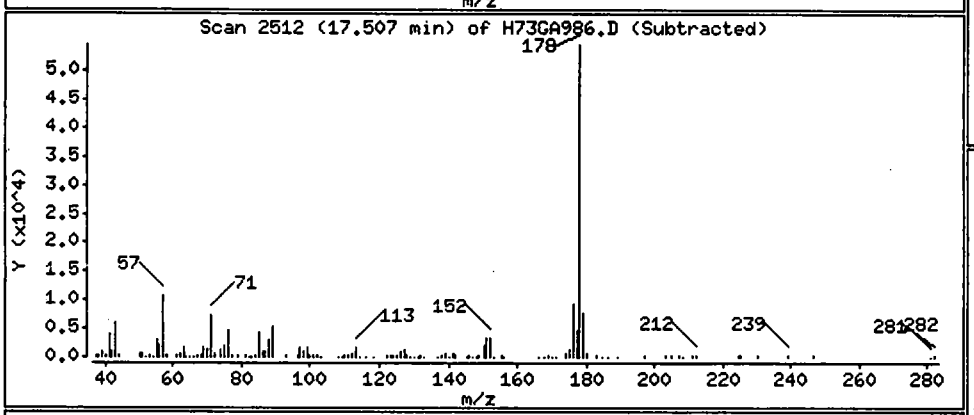
Column phase: HP-5MS

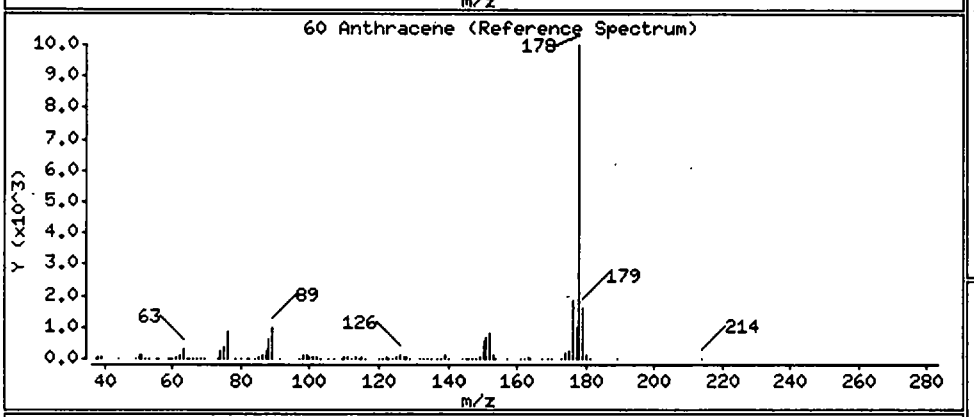
Column diameter: 0.25

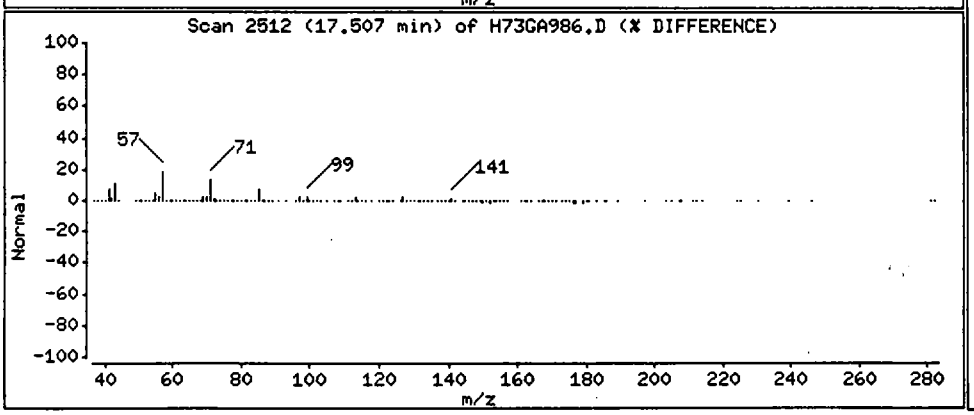
60 Anthracene

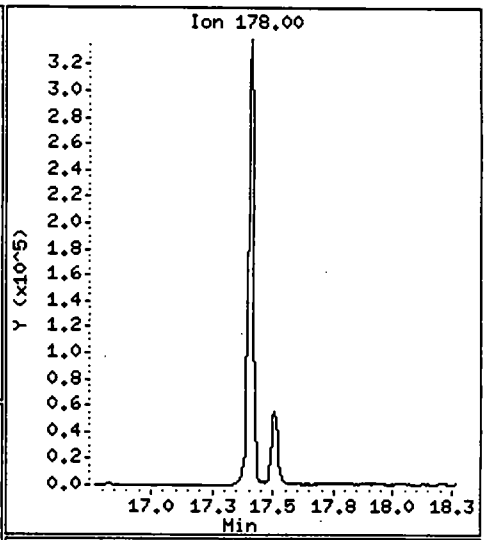
Concentration: 83 ug/Kg

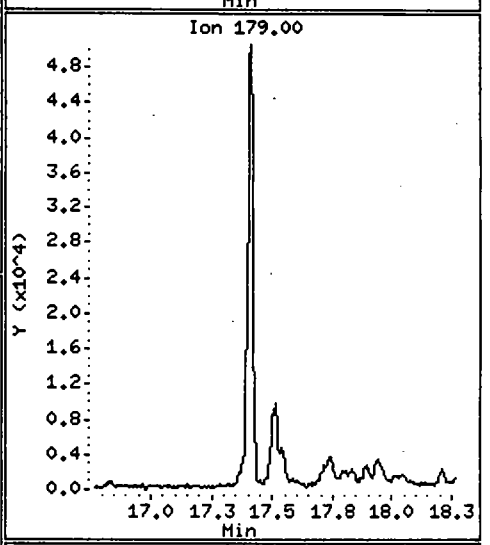


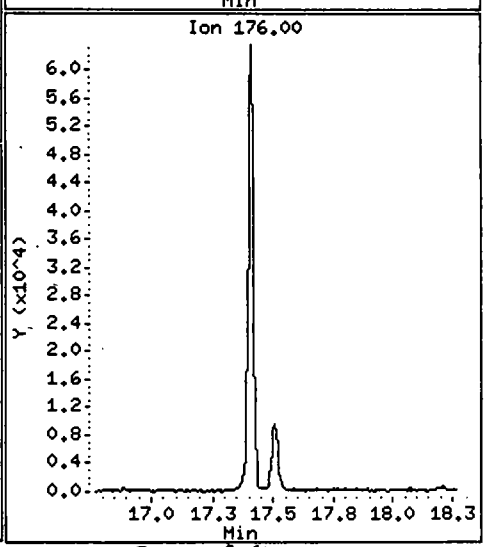












ORIGINAL

Data File: \\CHEMSTATION01\D\CHEM\hp73g.i\27734.b\H73GA988.D

Date : 31-JAN-2000 22:35

Client ID: CXG58

Instrument: hp73g.i

Sample Info: 00010153, CXG58

Volume Injected (uL): 2.0

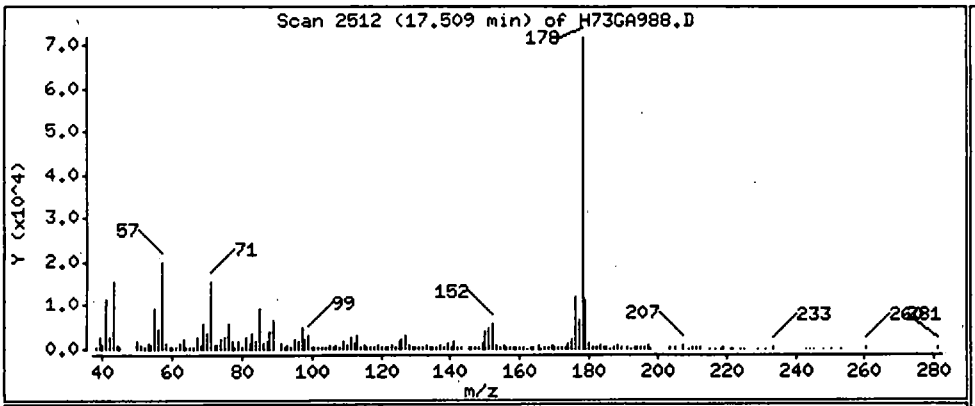
Operator: JBN

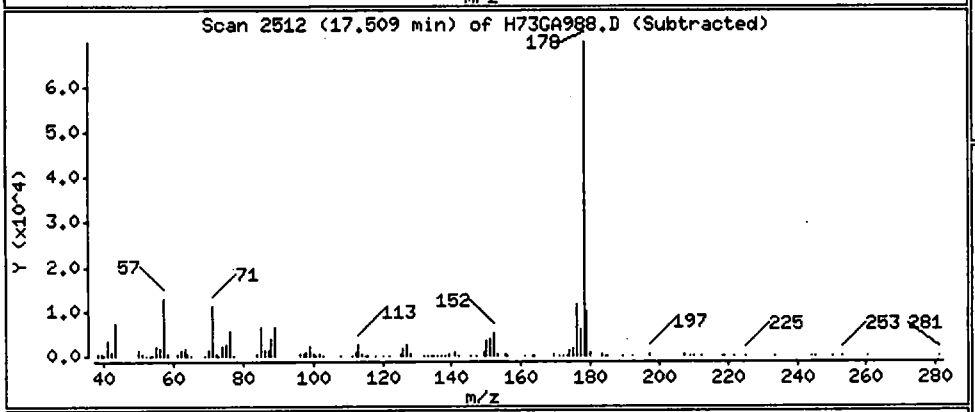
Column phase: HP-5MS

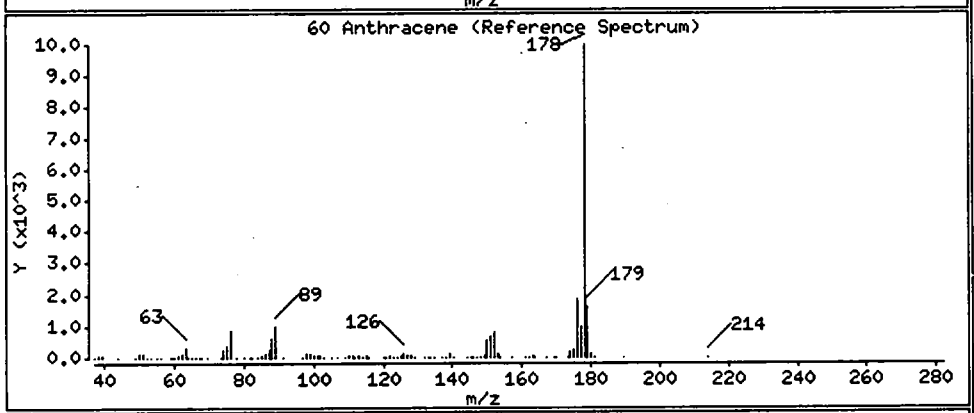
Column diameter: 0.25

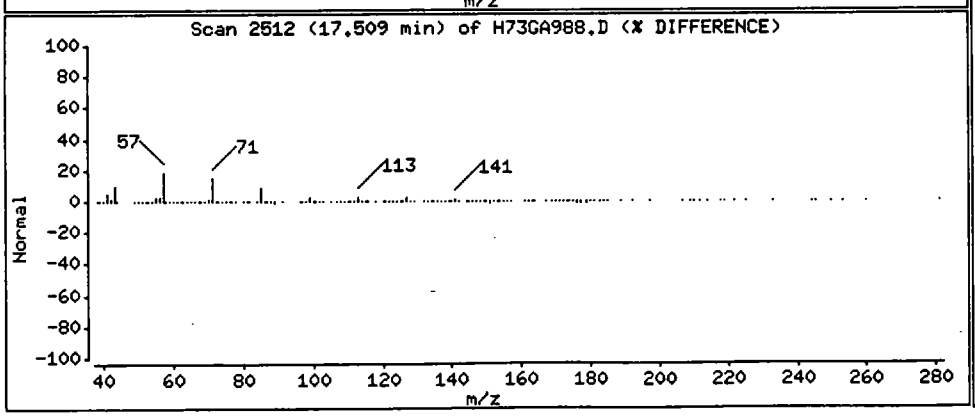
60 Anthracene

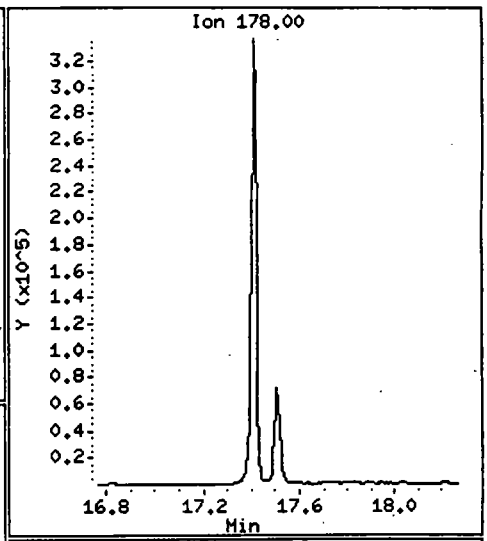
Concentration: 75 ug/Kg

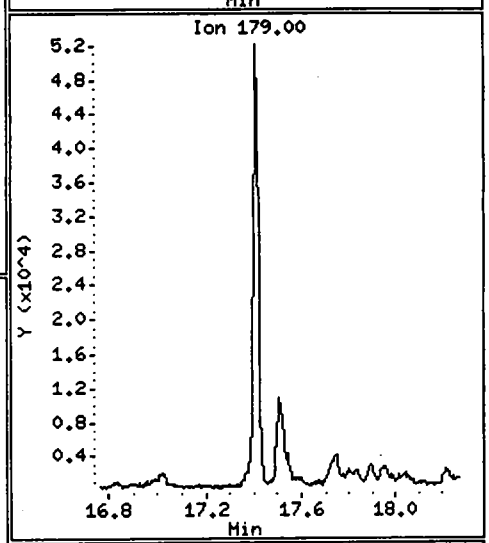


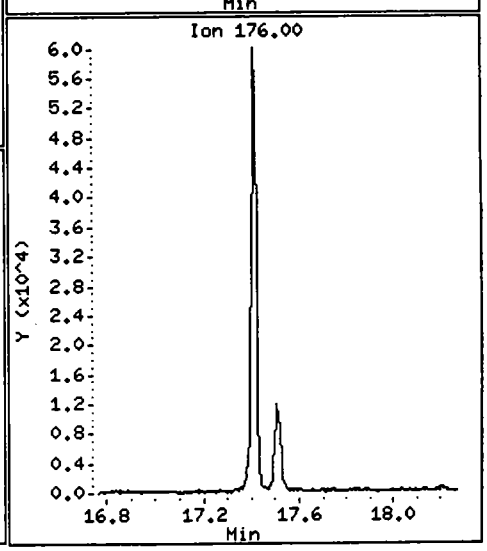












0 11206

ORIGINAL

Data File: \\CHEMSTATION01\D\CHEM\hp73g.i\27734.b\H73GA984.D

Date : 31-JAN-2000 19:23

Client ID: CXG84

Instrument: hp73g.i

Sample Info: 00010161, CXG84

Volume Injected (uL): 2.0

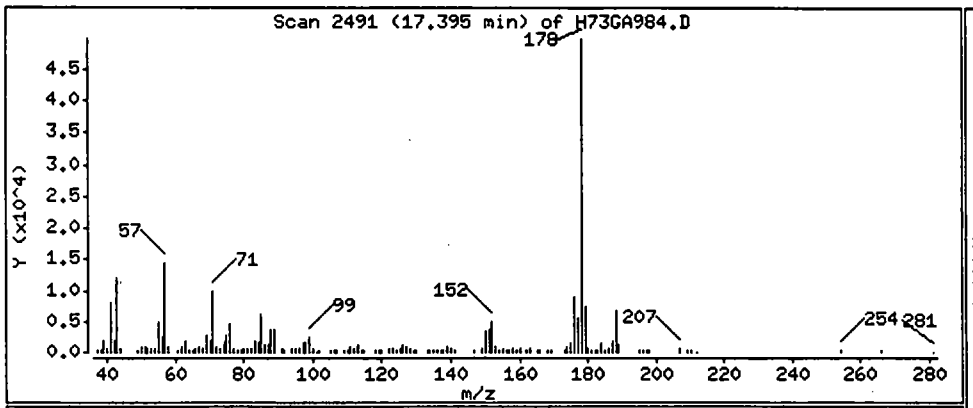
Operator: JBN

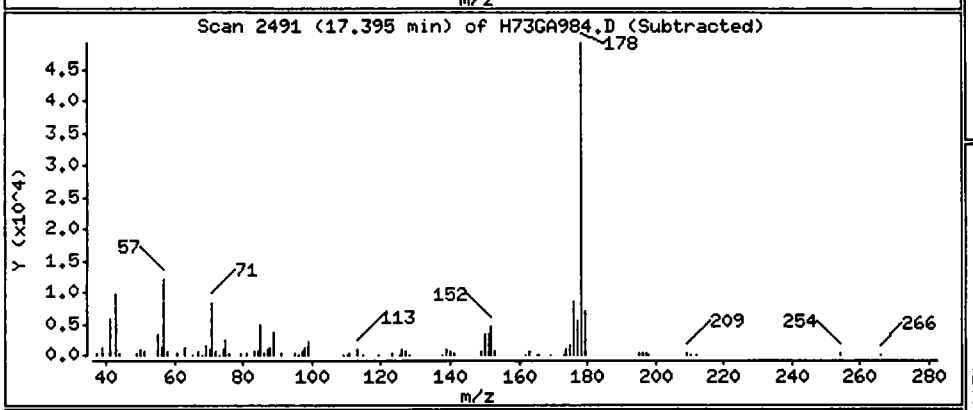
Column phase: HP-5MS

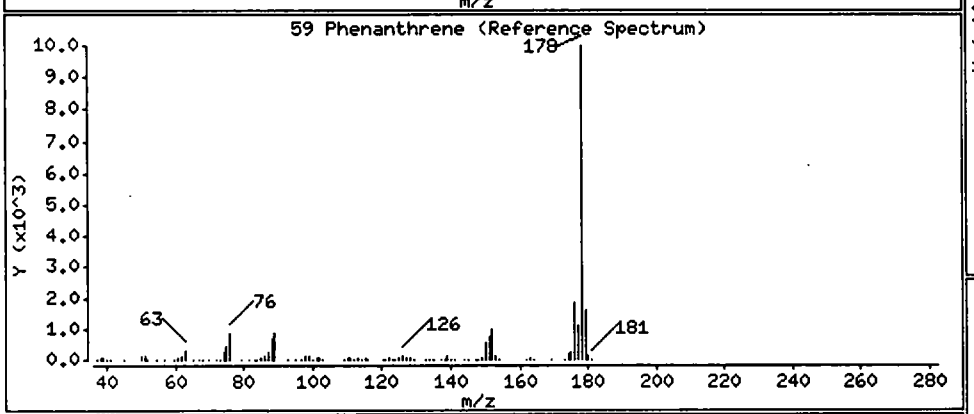
Column diameter: 0.25

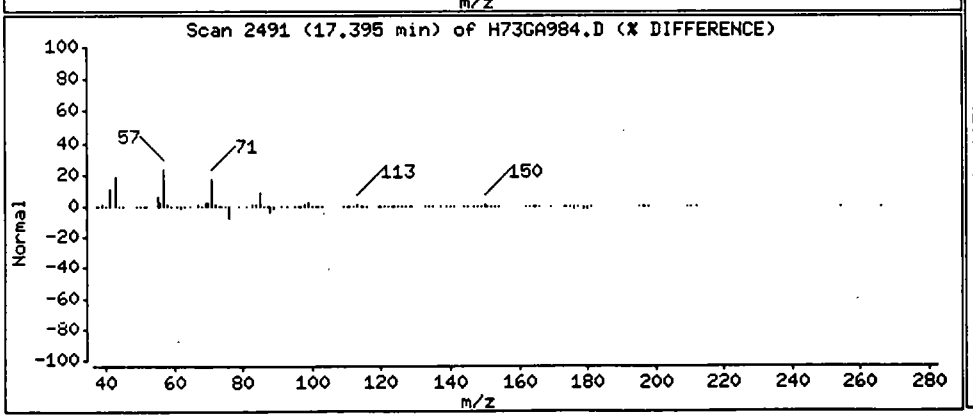
59 Phenanthrene

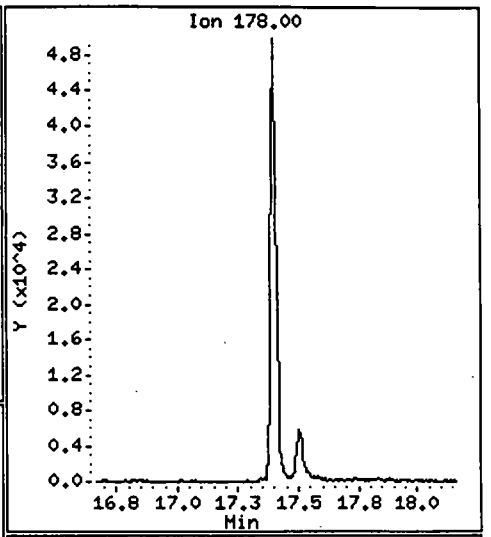
Concentration: 68 ug/Kg

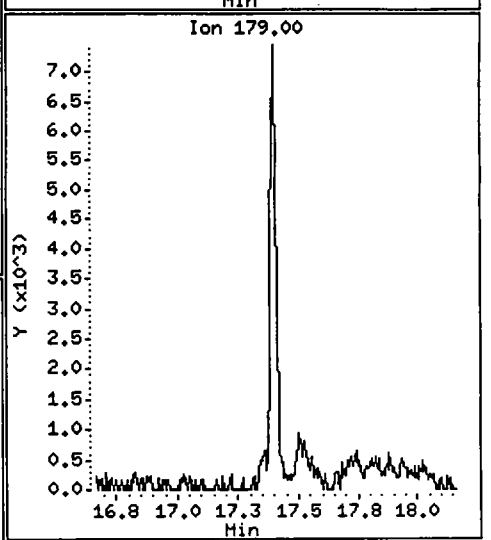


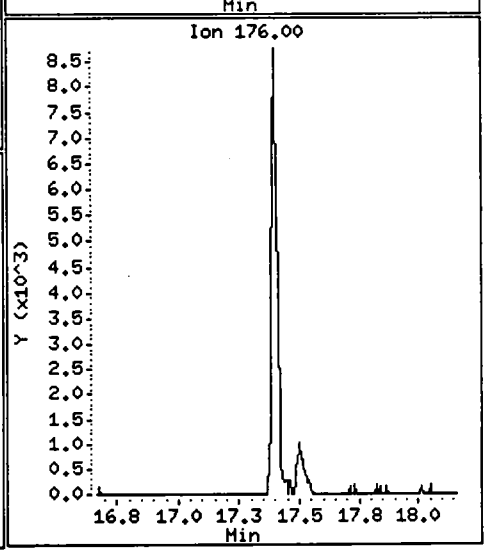












ORIGINAL

Data File: \\CHEMSTATION01\D\CHEM\hp73g.i\27734.b\H73GA991.D

Date : 01-FEB-2000 00:55

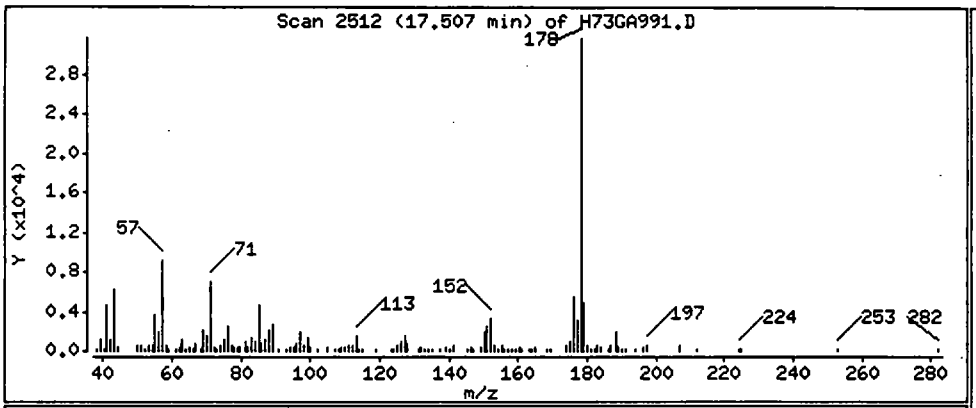
Client ID: CXG85 | Instrument: hp73g.i

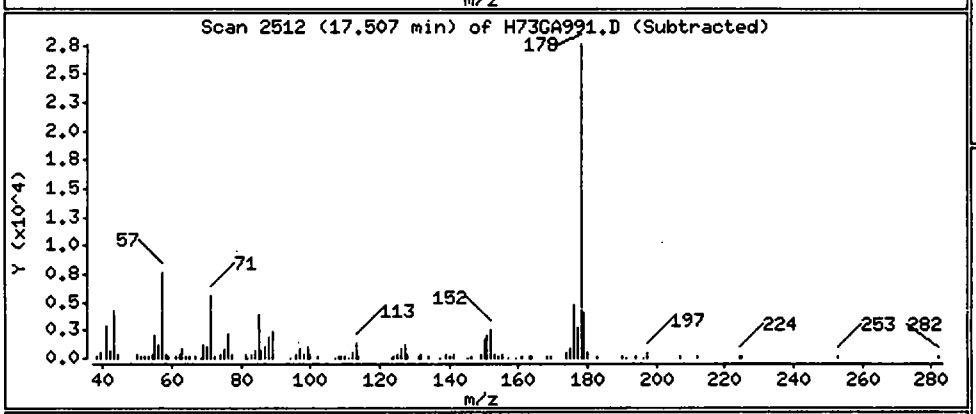
Sample Info: 00010162, CXG85

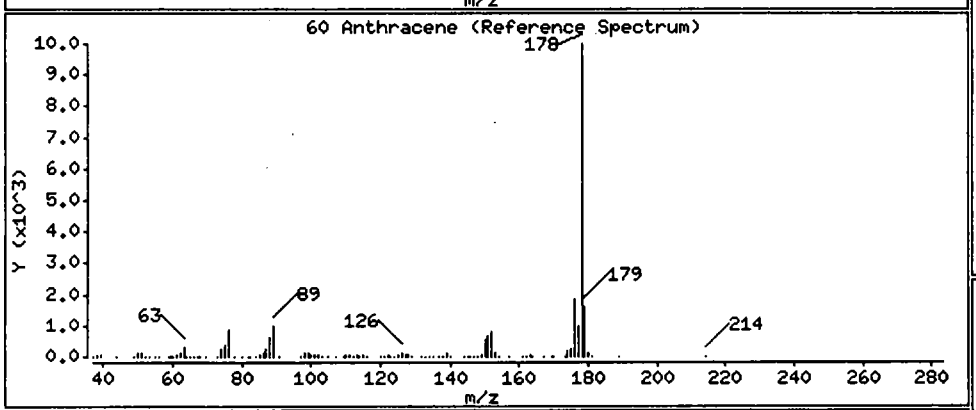
Volume Injected (uL): 2.0 | Operator: JBN

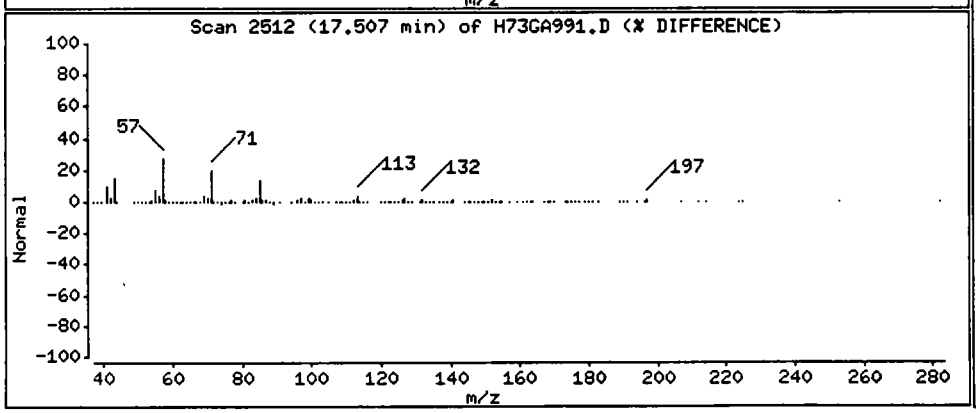
Column phase: HP-5MS | Column diameter: 0.25

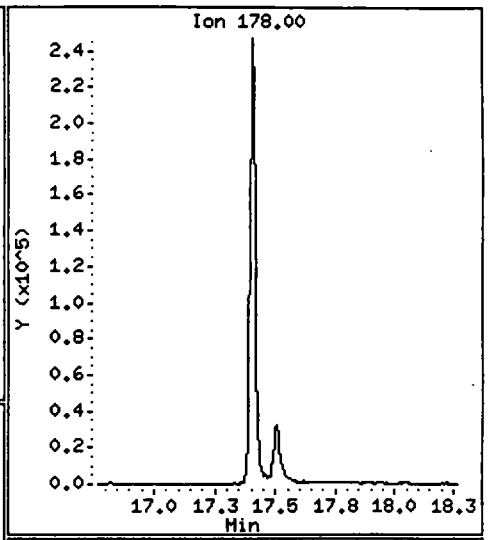
60 Anthracene | Concentration: 63 ug/Kg

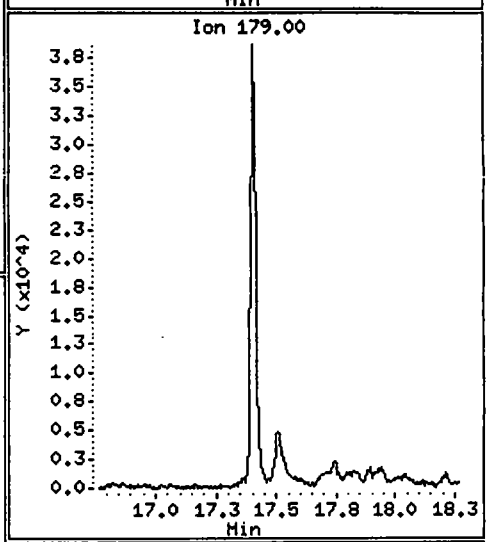


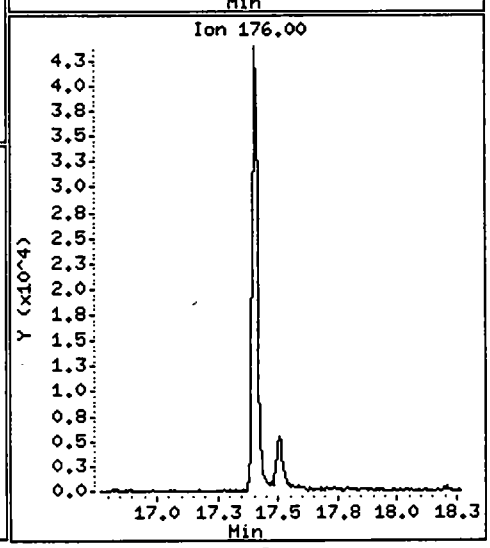












SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

ORIGINAL

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W-99-022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix Spike - EPA Sample No.: CXG58 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE AMOUNT (UG/L)	MS AMOUNT (ug/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	3000	0.0	2100	70	26- 90
2-Chlorophenol	3000	0.0	2000	67	25-102
N-Nitroso-di-n-prop.(1)	2000	0.0	1200	60	41-126
4-Chloro-3-methylphenol	3000	0.0	1900	63	26-103
Acenaphthene	2000	0.0	1300	65	31-137
4-Nitrophenol	3000	0.0	2600	87	11-114
2,4-Dinitrotoluene	2000	0.0	1300	65	28- 89
Pentachlorophenol	3000	0.0	48	2*	17-109
Pyrene	2000	540	2000	73	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD AMOUNT (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	3000	1400	47	39*	35	26- 90
2-Chlorophenol	3000	1300	43	44	50	25-102
N-Nitroso-di-n-prop.(1)	2000	800	40*	40*	38	41-126
4-Chloro-3-methylphenol	3000	1300	43	38*	33	26-103
Acenaphthene	2000	940	47	32*	19	31-137
4-Nitrophenol	3000	1700	57	42	50	11-114
2,4-Dinitrotoluene	2000	860	43	41	47	28- 89
Pentachlorophenol	3000	14	0	200*	47	17-109
Pyrene	2000	1400	43	52*	36	35-142

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 6 out of 9 outside limits
Spike Recovery: 2 out of 18 outside limits

COMMENTS: _____

ORIGINAL

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CXG58MS

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix: (soil/water) SOIL Lab Sample ID: 00010153MS

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GA989

Level: (low/med) LOW Date Received: 01/14/00

% Moisture: 17 Decanted: (Y/N)N Date Extracted: 01/15/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 01/31/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	400	U
108-95-2	Phenol	2100	
111-44-4	bis(2-Chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	2000	
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
98-86-2	Acetophenone	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-di-n-propylamine	1200	
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
120-83-2	2,4-Dichlorophenol	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
87-68-3	Hexachlorobutadiene	400	U
105-60-2	Caprolactam	400	U
59-50-7	4-Chloro-3-methylphenol	1900	
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	400	U
606-20-2	2,6-Dinitrotoluene	400	U
208-96-8	Acenaphthylene	400	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	1300	

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. ORIGINAL

CXG58MS

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix: (soil/water) SOIL Lab Sample ID: 00010153MS

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GA989

Level: (low/med) LOW Date Received: 01/14/00

% Moisture: 17 Decanted: (Y/N)N Date Extracted: 01/15/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 01/31/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	2600	
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	1300	
84-66-2	Diethylphthalate	400	U
86-73-7	Fluorene	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
1912-24-9	Atrazine	400	U
87-86-5	Pentachlorophenol	48	J
85-01-8	Phenanthrene	200	J
120-12-7	Anthracene	400	U
86-74-8	Carbazole	400	U
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	390	J
129-00-0	Pyrene	2000	
85-68-7	Butylbenzylphthalate	100	J
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	250	J
218-01-9	Chrysene	280	J
117-81-7	bis(2-Ethylhexyl)phthalate	960	
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	220	J
207-08-9	Benzo(k)fluoranthene	230	J
50-32-8	Benzo(a)pyrene	230	J
193-39-5	Indeno(1,2,3-cd)pyrene	130	J
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	130	J

ORIGINAL

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CXG58MSD

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix: (soil/water) SOIL Lab Sample ID: 00010153MSD

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GA990

Level: (low/med) LOW Date Received: 01/14/00

% Moisture: 17 Decanted: (Y/N)N Date Extracted: 01/15/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 02/01/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	400	U
108-95-2	Phenol	1400	
111-44-4	bis(2-Chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	1300	
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
98-86-2	Acetophenone	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-di-n-propylamine	800	
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
120-83-2	2,4-Dichlorophenol	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
87-68-3	Hexachlorobutadiene	400	U
105-60-2	Caprolactam	400	U
59-50-7	4-Chloro-3-methylphenol	1300	
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	400	U
606-20-2	2,6-Dinitrotoluene	400	U
208-96-8	Acenaphthylene	400	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	940	

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. ORIGINAL

CXG58MSD

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix: (soil/water) SOIL Lab Sample ID: 00010153MSD

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GA990

Level: (low/med) LOW Date Received: 01/14/00

% Moisture: 17 Decanted: (Y/N)N Date Extracted: 01/15/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 02/01/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1700	
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	860	
84-66-2	Diethylphthalate	400	U
86-73-7	Fluorene	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
1912-24-9	Atrazine	400	U
87-86-5	Pentachlorophenol	14	J
85-01-8	Phenanthrene	150	J
120-12-7	Anthracene	400	U
86-74-8	Carbazole	400	U
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	270	J
129-00-0	Pyrene	1400	
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	190	J
218-01-9	Chrysene	210	J
117-81-7	bis(2-Ethylhexyl)phthalate	780	
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	160	J
207-08-9	Benzo(k)fluoranthene	170	J
50-32-8	Benzo(a)pyrene	170	J
193-39-5	Indeno(1,2,3-cd)pyrene	100	J
53-70-3	Dibenzo(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	93	J

ORIGINAL

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK17

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix: (soil/water) SOIL Lab Sample ID: 0115SSB1

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GA953

Level: (low/med) LOW Date Received: 02/02/99

% Moisture: 0 Decanted: (Y/N)N Date Extracted: 01/15/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 01/28/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	330	U
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
98-86-2	Acetophenone	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
120-83-2	2,4-Dichlorophenol	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
87-68-3	Hexachlorobutadiene	330	U
105-60-2	Caprolactam	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	830	U
92-52-4	1,1'-Biphenyl	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	830	U
131-11-3	Dimethylphthalate	330	U
606-20-2	2,6-Dinitrotoluene	330	U
208-96-8	Acenaphthylene	330	U
99-09-2	3-Nitroaniline	830	U
83-32-9	Acenaphthene	330	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ORIGINAL

SBLK17

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix: (soil/water) SOIL Lab Sample ID: 0115SSB1

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GA953

Level: (low/med) LOW Date Received: 02/02/99

% Moisture: 0 Decanted: (Y/N)N Date Extracted: 01/15/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 01/28/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

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
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
100-01-6	4-Nitroaniline	830	U
534-52-1	4,6-Dinitro-2-methylphenol	830	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
1912-24-9	Atrazine	330	U
87-86-5	Pentachlorophenol	830	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

ORIGINAL

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK19

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix: (soil/water) SOIL Lab Sample ID: 0117SSB1

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GA952

Level: (low/med) LOW Date Received: _____

% Moisture: 0 Decanted: (Y/N)N Date Extracted: 01/17/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 01/28/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	330	U
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
98-86-2	Acetophenone	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
120-83-2	2,4-Dichlorophenol	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
87-68-3	Hexachlorobutadiene	330	U
105-60-2	Caprolactam	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	830	U
92-52-4	1,1'-Biphenyl	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	830	U
131-11-3	Dimethylphthalate	330	U
606-20-2	2,6-Dinitrotoluene	330	U
208-96-8	Acenaphthylene	330	U
99-09-2	3-Nitroaniline	830	U
83-32-9	Acenaphthene	330	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ORIGINAL

SBLK19

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix: (soil/water) SOIL Lab Sample ID: 0117SSB1

Sample wt/vol: 30.0(g/mL) G Lab File ID: H73GA952

Level: (low/med) LOW Date Received: _____

% Moisture: 0 Decanted: (Y/N)N Date Extracted: 01/17/00

Concentrated Extract Volume: 500(uL) Date Analyzed: 01/28/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

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
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
100-01-6	4-Nitroaniline	830	U
534-52-1	4,6-Dinitro-2-methylphenol	830	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
1912-24-9	Atrazine	330	U
87-86-5	Pentachlorophenol	830	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

ORIGINAL

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK23

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix: (soil/water) WATER Lab Sample ID: 0118SWB3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GA923

Level: (low/med) LOW Date Received: _____

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 01/18/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	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
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. ORIGINAL

SBLK23

Lab Name: ENVIROSYSTEMS, INC. Contract: 68-W9-9022

Lab Code: ENVSYS Case No.: 27734 SAS No.: SDG No.: CXG54

Matrix: (soil/water) WATER Lab Sample ID: 0118SWB3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: H73GA923

Level: (low/med) LOW Date Received: _____

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 01/18/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 5.0 Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	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-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U