155111

Lockheed

Environmental Systems

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DATE: November 9, 1994

SUBJECT: Level M1 Organic Data Validation for Case 22655
Site: Koppers Company Facility Plant

FROM: Sherif N. Saadmina SNS
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TO: Susanne Stevens
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THROUGH: Dale S. Boshart DSB
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OVERVIEW

Case 22655 consisted of seven (7) trip blanks and seventeen (17) soil samples submitted to RECRA ENVIRONMENTAL (RECNY) for volatile and semivolatile analyses. One (1) sample, CNF25, was also analyzed for pesticide/PCB compunds. The trip blanks were analyzed for volatiles only. The samples were analyzed as a Contract Laboratory Program (CLP) Routine Analytical Service (RAS).

SUMMARY

All samples were successfully analyzed for all target compounds. All instrument and method sensitivities were according to the Contract Laboratory Program (CLP) Routine Analytical Service (RAS) protocol.

Data were validated according to the Level M1 procedure. Quality control measures evaluated were limited to the 10-day Health Advisory Limits, laboratory and field blanks, sample paperwork, retention times, mass spectra, and chromatograms.

NOTES

- The maximum concentrations of all compounds found in the analyses of the trip and laboratory method blanks are listed below. Samples with concentrations of common laboratory contaminants less than ten times (<10X) the blank concentration or with concentrations of other contaminants less than five (<5X) the blank concentration have been qualified "B" on the Form Is.

Compound	Concentration
methylene chloride *	1 J ug/L
chloroform	43 ug/L
bromodichloromethane	4 J ug/L
diethylphthalate *	11 J ug/Kg
di-n-butylphthalate *	5 J ug/Kg
bis(2-ethylhexyl)phthalate *	18 J ug/Kg

* Common Laboratory Contaminant

- In the volatile analysis of sample CNF22, acetone exceeded the linear calibration range. The sample was reanalyzed at a higher dilution. This compound was reported from the diluted analysis and marked with an asterisk on the Form Is.

- In the semivolatile analyses, sample CNF22 had compounds which exceeded the linear calibration range. The sample was reanalyzed at a higher dilution. These compounds were reported from the diluted analysis and marked with an asterisk on the Form Is.

- In the semivolatile analyses, samples CNF20 and CNF21 were reanalyzed due to Internal Standard (IS) outliers. The reanalyses resulted in the same or more IS ouliers. The initial analyses were reported.

- In the semivolatile continuing calibration dated 10/3/94, 2,4-dinitrophenol failed the precision criteria (RRF < 0.05). No data were affected.

All data for Case 22655 were reviewed in accordance with the Level M1 Innovative Approach for Validation of Organic Data in conjunction with the National Functional Guidelines for Evaluating Organic Analyses with modification for use within Region III.

ATTACHMENTS

1) Appendix A - Glossary of Data Qualifiers
2) Appendix B - Results as Reported by the Laboratory for All Target Compounds with Applicable Qualifiers.
3) Appendix C - Support Documentation

DCN:SS411A1.KOP

Appendix A

Glossary of Data Qualifiers

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.

Appendix B

Qualified Results Based on Level M1 Validation for all Target Compounds

1A
VOLATILE ORGANICS ANALY

Location: KOPTB10

Trip Blank

EPA SAMPLE NO.

CNF16

ab Name: RECRA ENVIRON Contract: 68D20027

ab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CNF16

atrix: (soil/water) WATER Lab Sample ID: A4500401

ample wt/vol: 5.0 (g/mL) ML Lab File ID: G1001

evel: (low/med) LOW Date Received: 09/21/94

Moisture: not dec. ____ Date Analyzed: 09/21/94

C Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q	QV
74-87-3	Chloromethane	10	U	
74-83-9	Bromomethane	10	U	
75-01-4	Vinyl Chloride	10	U	
75-00-3	Chloroethane	10	U	
75-09-2	Methylene Chloride	10	U	
67-64-1	Acetone	10	U	
75-15-0	Carbon Disulfide	10	U	
75-35-4	1,1-Dichloroethene	10	U	
75-34-3	1,1-Dichloroethane	10	U	
540-59-0	1,2-Dichloroethene (total)	10	U	
67-66-3	Chloroform	43		
107-06-2	1,2-Dichloroethane	10	U	
78-93-3	2-Butanone	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
56-23-5	Carbon Tetrachloride	10	U	
75-27-4	Bromodichloromethane	4	J	J
78-87-5	1,2-Dichloropropane	10	U	
10061-01-5	cis-1,3-dichloropropene	10	U	
79-01-6	Trichloroethene	10	U	
124-48-1	Dibromochloromethane	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
71-43-2	Benzene	10	U	
10061-02-6	trans-1,3-dichloropropene	10	U	
75-25-2	Bromoform	10	U	
108-10-1	4-Methyl-2-Pentanone	10	U	
591-78-6	2-Hexanone	10	U	
127-18-4	Tetrachloroethene	10	U	
79-34-5	1,1,2,2-Tetrachloroethane	10	U	
108-88-3	Toluene	10	U	
108-90-7	Chlorobenzene	10	U	
100-41-4	Ethylbenzene	10	U	
100-42-5	Styrene	10	U	
1330-20-7	Total Xylenes	10	U	

shs
11/3/94

QV = QUALIFIER AFTER VALIDATION

FORM I VOA

3/90

AR304987

Review: M1 Level

0007

1A
VOLATILE ORGANICS ANALY

Location: KOPTB11

EPA SAMPLE NO.

TP. P Blank

CNF19

ab Name: RECRA ENVIRON Contract: 68D20027

ab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CNF16

atrix: (soil/water) WATER Lab Sample ID: A4500404

ample wt/vol: 5.0 (g/mL) ML Lab File ID: G1002

evel: (low/med) LOW Date Received: 09/21/94

Moisture: not dec. ____ Date Analyzed: 09/21/94

C Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q	QV
74-87-3	Chloromethane	10	U	
74-83-9	Bromomethane	10	U	
75-01-4	Vinyl Chloride	10	U	
75-00-3	Chloroethane	10	U	
75-09-2	Methylene Chloride	10	U	
67-64-1	Acetone	10	U	
75-15-0	Carbon Disulfide	10	U	
75-35-4	1,1-Dichloroethene	10	U	
75-34-3	1,1-Dichloroethane	10	U	
540-59-0	1,2-Dichloroethene (total)	10	U	
67-66-3	Chloroform	37		
107-06-2	1,2-Dichloroethane	10	U	
78-93-3	2-Butanone	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
56-23-5	Carbon Tetrachloride	10	U	
75-27-4	Bromodichloromethane	4	J	J
78-87-5	1,2-Dichloropropane	10	U	
10061-01-5	cis-1,3-dichloropropene	10	U	
79-01-6	Trichloroethene	10	U	
124-48-1	Dibromochloromethane	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
71-43-2	Benzene	10	U	
10061-02-6	trans-1,3-dichloropropene	10	U	
75-25-2	Bromoform	10	U	
108-10-1	4-Methyl-2-Pentanone	10	U	
591-78-6	2-Hexanone	10	U	
127-18-4	Tetrachloroethene	10	U	
79-34-5	1,1,2,2-Tetrachloroethane	10	U	
108-88-3	Toluene	10	U	
108-90-7	Chlorobenzene	10	U	
100-41-4	Ethylbenzene	10	U	
100-42-5	Styrene	10	U	
1330-20-7	Total Xylenes	10	U	

shs 11/3/94

QV = QUALIFIER AFTER VALIDATION

FORM I VOA 3/90

AR304988

1A
VOLATILE ORGANICS ANALY

Location: KOPTB12
Trip Blank

EPA SAMPLE NO.

CNF24

ab Name: RECRA ENVIRON Contract: 68D20027

ab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CNF16

atrix: (soil/water) WATER Lab Sample ID: A4506801

ample wt/vol: 5.0 (g/mL) ML Lab File ID: G1023

evel: (low/med) LOW Date Received: 09/23/94

Moisture: not dec. ____ Date Analyzed: 09/26/94

C Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	QV
74-87-3	Chloromethane	10	U	
74-83-9	Bromomethane	10	U	
75-01-4	Vinyl Chloride	10	U	
75-00-3	Chloroethane	10	U	
75-09-2	Methylene Chloride	10	U	
67-64-1	Acetone	10	U	
75-15-0	Carbon Disulfide	10	U	
75-35-4	1,1-Dichloroethene	10	U	
75-34-3	1,1-Dichloroethane	10	U	
540-59-0	1,2-Dichloroethene (total)	10	U	
67-66-3	Chloroform	40		
107-06-2	1,2-Dichloroethane	10	U	
78-93-3	2-Butanone	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
56-23-5	Carbon Tetrachloride	10	U	
75-27-4	Bromodichloromethane	4	J	J
78-87-5	1,2-Dichloropropane	10	U	
10061-01-5	cis-1,3-dichloropropene	10	U	
79-01-6	Trichloroethene	10	U	
124-48-1	Dibromochloromethane	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
71-43-2	Benzene	10	U	
10061-02-6	trans-1,3-dichloropropene	10	U	
75-25-2	Bromoform	10	U	
108-10-1	4-Methyl-2-Pentanone	10	U	
591-78-6	2-Hexanone	10	U	
127-18-4	Tetrachloroethene	10	U	
79-34-5	1,1,2,2-Tetrachloroethane	10	U	
108-88-3	Toluene	10	U	
108-90-7	Chlorobenzene	10	U	
100-41-4	Ethylbenzene	10	U	
100-42-5	Styrene	10	U	
1330-20-7	Total Xylenes	10	U	

shs 11/3/94

QV = QUALIFIER AFTER VALIDATION

FORM I VOA 3/90

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Review: M1 Level

1A
VOLATILE ORGANICS ANALY

Location: KOPTB13

Trip Blank

EPA SAMPLE NO.

CNF27

a' ıme: RECRA ENVIRON Contract: 68D20027

ab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CNF16

atrix: (soil/water) WATER Lab Sample ID: A4506805

ample wt/vol: 5.0 (g/mL) ML Lab File ID: G1024

evel: (low/med) LOW Date Received: 09/23/94

Moisture: not dec. ____ Date Analyzed: 09/26/94

C Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q	QV
74-87-3	Chloromethane	10	U	
74-83-9	Bromomethane	10	U	
75-01-4	Vinyl Chloride	10	U	
75-00-3	Chloroethane	10	U	
75-09-2	Methylene Chloride	10	U	
67-64-1	Acetone	10	U	
75-15-0	Carbon Disulfide	10	U	
75-35-4	1,1-Dichloroethene	10	U	
75-34-3	1,1-Dichloroethane	10	U	
540-59-0	1,2-Dichloroethene (total)	10	U	
67-66-3	Chloroform	39		
107-06-2	1,2-Dichloroethane	10	U	
78-93-3	2-Butanone	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
56-23-5	Carbon Tetrachloride	10	U	
75-27-4	Bromodichloromethane	4	J	J
78-87-5	1,2-Dichloropropane	10	U	
10061-01-5	cis-1,3-dichloropropene	10	U	
79-01-6	Trichloroethene	10	U	
124-48-1	Dibromochloromethane	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
71-43-2	Benzene	10	U	
10061-02-6	trans-1,3-dichloropropene	10	U	
75-25-2	Bromoform	10	U	
108-10-1	4-Methyl-2-Pentanone	10	U	
591-78-6	2-Hexanone	10	U	
127-18-4	Tetrachloroethene	10	U	
79-34-5	1,1,2,2-Tetrachloroethane	10	U	
108-88-3	Toluene	10	U	
108-90-7	Chlorobenzene	10	U	
100-41-4	Ethylbenzene	10	U	
100-42-5	Styrene	10	U	
1330-20-7	Total Xylenes	10	U	

Shs 11/3/94

QV = QUALIFIER AFTER VALIDATION

FORM I VOA

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Review: M1 Level

1A
VOLATILE ORGANICS ANA

Location:KOPTB14

Trip Blank

EPA SAMPLE NO. 0013

CNF30

ab Name: RECRA ENVIRON Contract: 68D20027

ab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CNF16

atrix: (soil/water) WATER Lab Sample ID: A4508201

ample wt/vol: 5.0 (g/mL) ML Lab File ID: G1044

evel: (low/med) LOW Date Received: 09/24/94

Moisture: not dec. ____ Date Analyzed: 09/27/94

C Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	QV
74-87-3	Chloromethane	10	U	
74-83-9	Bromomethane	10	U	
75-01-4	Vinyl Chloride	10	U	
75-00-3	Chloroethane	10	U	
75-09-2	Methylene Chloride	0.7	J	J
67-64-1	Acetone	10	U	
75-15-0	Carbon Disulfide	10	U	
75-35-4	1,1-Dichloroethene	10	U	
75-34-3	1,1-Dichloroethane	10	U	
540-59-0	1,2-Dichloroethene (total)	10	U	
67-66-3	Chloroform	41		
107-06-2	1,2-Dichloroethane	10	U	
78-93-3	2-Butanone	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
56-23-5	Carbon Tetrachloride	10	U	
75-27-4	Bromodichloromethane	4	J	J
78-87-5	1,2-Dichloropropane	10	U	
10061-01-5	cis-1,3-dichloropropene	10	U	
79-01-6	Trichloroethene	10	U	
124-48-1	Dibromochloromethane	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
71-43-2	Benzene	10	U	
10061-02-6	trans-1,3-dichloropropene	10	U	
75-25-2	Bromoform	10	U	
108-10-1	4-Methyl-2-Pentanone	10	U	
591-78-6	2-Hexanone	10	U	
127-18-4	Tetrachloroethene	10	U	
79-34-5	1,1,2,2-Tetrachloroethane	10	U	
108-88-3	Toluene	10	U	
108-90-7	Chlorobenzene	10	U	
100-41-4	Ethylbenzene	10	U	
100-42-5	Styrene	10	U	
1330-20-7	Total Xylenes	10	U	

S.S 11/9/94

QV = QUALIFIER AFTER VALIDATION

FORM I VOA

AR304991

3/90

Review: M1 Level

1A
VOLATILE ORGANICS ANAL

Location: KOPTB08
Trip Blank

EPA SAMPLE NO.
0007

CKS97

1 Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) WATER Lab Sample ID: A4493001

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: G9981

Level: (low/med) LOW Date Received: 09/16/94

% Moisture: not dec. ____ Date Analyzed: 09/20/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q	QV
74-87-3	Chloromethane	10	U	
74-83-9	Bromomethane	10	U	
75-01-4	Vinyl Chloride	10	U	
75-00-3	Chloroethane	10	U	
75-09-2	Methylene Chloride	1	J	J
67-64-1	Acetone	10	U	
75-15-0	Carbon Disulfide	10	U	
75-35-4	1,1-Dichloroethene	10	U	
75-34-3	1,1-Dichloroethane	10	U	
540-59-0	1,2-Dichloroethene (total)	10	U	
67-66-3	Chloroform	32		
107-06-2	1,2-Dichloroethane	10	U	
78-93-3	2-Butanone	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
56-23-5	Carbon Tetrachloride	10	U	
75-27-4	Bromodichloromethane	3	J	J
78-87-5	1,2-Dichloropropane	10	U	
10061-01-5	cis-1,3-dichloropropene	10	U	
79-01-6	Trichloroethene	10	U	
124-48-1	Dibromochloromethane	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
71-43-2	Benzene	10	U	
10061-02-6	trans-1,3-dichloropropene	10	U	
75-25-2	Bromoform	10	U	
108-10-1	4-Methyl-2-Pentanone	10	U	
591-78-6	2-Hexanone	10	U	
127-18-4	Tetrachloroethene	10	U	
79-34-5	1,1,2,2-Tetrachloroethane	10	U	
108-88-3	Toluene	10	U	
108-90-7	Chlorobenzene	10	U	
100-41-4	Ethylbenzene	10	U	
100-42-5	Styrene	10	U	
1330-20-7	Total Xylenes	10	U	

SL-5
11/3/94

QV = QUALIFIER AFTER VALIDATION

FORM I VOA

AR304992

3/90

1A
VOLATILE ORGANICS ANA

Location: KOPSB216/4-6

EPA SAMPLE NO.
~~0009~~
CKS98

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4493002

Sample wt/vol: 5.3 (g/mL) G Lab File ID: G9983

Level: (low/med) LOW Date Received: 09/16/94

% Moisture: not dec. 15 Date Analyzed: 09/20/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q QV
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11	U
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Total Xylenes	11	U

QV = QUALIFIER AFTER VALIDATION

FORM I VOA

Review: M1 Level

1A
VOLATILE ORGANICS ANALY

Location: KOPSB216/2-4

EPA SAMPLE NO.
0011
CKS99

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4493003

Sample wt/vol: 5.3 (g/mL) G Lab File ID: G9984

Level: (low/med) LOW Date Received: 09/16/94

% Moisture: not dec. 17 Date Analyzed: 09/20/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q	QV
74-87-3	Chloromethane	11	U	
74-83-9	Bromomethane	11	U	
75-01-4	Vinyl Chloride	11	U	
75-00-3	Chloroethane	11	U	
75-09-2	Methylene Chloride	11	U	
67-64-1	Acetone	11	U	
75-15-0	Carbon Disulfide	11	U	
75-35-4	1,1-Dichloroethene	11	U	
75-34-3	1,1-Dichloroethane	11	U	
540-59-0	1,2-Dichloroethene (total)	11	U	
67-66-3	Chloroform	11	U	
107-06-2	1,2-Dichloroethane	11	U	
78-93-3	2-Butanone	11	U	
71-55-6	1,1,1-Trichloroethane	11	U	
56-23-5	Carbon Tetrachloride	11	U	
75-27-4	Bromodichloromethane	11	U	
78-87-5	1,2-Dichloropropane	11	U	
10061-01-5	cis-1,3-dichloropropene	11	U	
79-01-6	Trichloroethene	11	U	
124-48-1	Dibromochloromethane	11	U	
79-00-5	1,1,2-Trichloroethane	11	U	
71-43-2	Benzene	11	U	
10061-02-6	trans-1,3-dichloropropene	11	U	
75-25-2	Bromoform	11	U	
108-10-1	4-Methyl-2-Pentanone	11	U	
591-78-6	2-Hexanone	11	U	
127-18-4	Tetrachloroethene	11	U	
79-34-5	1,1,2,2-Tetrachloroethane	11	U	
108-88-3	Toluene	11	U	
108-90-7	Chlorobenzene	11	U	
100-41-4	Ethylbenzene	11	U	
100-42-5	Styrene	11	U	
1330-20-7	Total Xylenes	11	U	

QV = QUALIFIER AFTER VALIDATION

FORM I VOA

AR304994

3/90

Review: M1 Level

1A
VOLATILE ORGANICS ANALY

Location: KOPSB609/4-6

EPA SAMPLE NO.
0013

CNF11

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4493004

Sample wt/vol: 5.2 (g/mL) G Lab File ID: G9985

Level: (low/med) LOW Date Received: 09/16/94

% Moisture: not dec. 3 Date Analyzed: 09/20/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q	QV
74-87-3	Chloromethane	10	U	
74-83-9	Bromomethane	10	U	
75-01-4	Vinyl Chloride	10	U	
75-00-3	Chloroethane	10	U	
75-09-2	Methylene Chloride	10	U	
67-64-1	Acetone	170		
75-15-0	Carbon Disulfide	10	U	
75-35-4	1,1-Dichloroethene	10	U	
75-34-3	1,1-Dichloroethane	10	U	
540-59-0	1,2-Dichloroethene (total)	10	U	
67-66-3	Chloroform	10	U	
107-06-2	1,2-Dichloroethane	10	U	
78-93-3	2-Butanone	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
56-23-5	Carbon Tetrachloride	10	U	
75-27-4	Bromodichloromethane	10	U	
78-87-5	1,2-Dichloropropane	10	U	
10061-01-5	cis-1,3-dichloropropene	10	U	
79-01-6	Trichloroethene	10	U	
124-48-1	Dibromochloromethane	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
71-43-2	Benzene	10	U	
10061-02-6	trans-1,3-dichloropropene	10	U	
75-25-2	Bromoform	10	U	
108-10-1	4-Methyl-2-Pentanone	10	U	
591-78-6	2-Hexanone	10	U	
127-18-4	Tetrachloroethene	10	U	
79-34-5	1,1,2,2-Tetrachloroethane	10	U	
108-88-3	Toluene	10	U	
108-90-7	Chlorobenzene	10	U	
100-41-4	Ethylbenzene	10	U	
100-42-5	Styrene	10	U	
1330-20-7	Total Xylenes	10	U	

sh-s 11/3/94

QV = QUALIFIER AFTER VALIDATION

FORM I VOA

3/90

AR304995

Review: M1 Level

1A
VOLATILE ORGANICS ANAL

Location: KOPSB609/6-8

EPA SAMPLE NO.
~~0015~~
CNF12

Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4493005

Sample wt/vol: 5.3 (g/mL) G Lab File ID: G9986

Level: (low/med) LOW Date Received: 09/16/94

% Moisture: not dec. 6 Date Analyzed: 09/20/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	QV
74-87-3	Chloromethane	10	U	
74-83-9	Bromomethane	10	U	
75-01-4	Vinyl Chloride	10	U	
75-00-3	Chloroethane	10	U	
75-09-2	Methylene Chloride	10	U	
67-64-1	Acetone	10	U	
75-15-0	Carbon Disulfide	10	U	
75-35-4	1,1-Dichloroethene	10	U	
75-34-3	1,1-Dichloroethane	10	U	
540-59-0	1,2-Dichloroethene (total)	10	U	
67-66-3	Chloroform	10	U	
107-06-2	1,2-Dichloroethane	10	U	
78-93-3	2-Butanone	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
56-23-5	Carbon Tetrachloride	10	U	
75-27-4	Bromodichloromethane	10	U	
78-87-5	1,2-Dichloropropane	10	U	
10061-01-5	cis-1,3-dichloropropene	10	U	
79-01-6	Trichloroethene	10	U	
124-48-1	Dibromochloromethane	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
71-43-2	Benzene	10	U	
10061-02-6	trans-1,3-dichloropropene	10	U	
75-25-2	Bromoform	10	U	
108-10-1	4-Methyl-2-Pentanone	10	U	
591-78-6	2-Hexanone	10	U	
127-18-4	Tetrachloroethene	10	U	
79-34-5	1,1,2,2-Tetrachloroethane	10	U	
108-88-3	Toluene	10	U	
108-90-7	Chlorobenzene	10	U	
100-41-4	Ethylbenzene	10	U	
100-42-5	Styrene	10	U	
1330-20-7	Total Xylenes	10	U	

QV = QUALIFIER AFTER VALIDATION

FORM I VOA

AR304996

Review: M1 Level

1A
VOLATILE ORGANICS ANAI

Location:KOPSB203/ 4-6

EPA SAMPLE NO.

0017
CNF13

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4403007

Sample wt/vol: 5.2 (g/mL) G Lab File ID: G9990

Level: (low/med) LOW Date Received: 09/16/94

% Moisture: not dec. 19 Date Analyzed: 09/20/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q	QV
74-87-3	Chloromethane	12	U	
74-83-9	Bromomethane	12	U	
75-01-4	Vinyl Chloride	12	U	
75-00-3	Chloroethane	12	U	
75-09-2	Methylene Chloride	12	U	
67-64-1	Acetone	12	U	
75-15-0	Carbon Disulfide	12	U	
75-35-4	1,1-Dichloroethene	12	U	
75-34-3	1,1-Dichloroethane	12	U	
540-59-0	1,2-Dichloroethene (total)	12	U	
67-66-3	Chloroform	12	U	
107-06-2	1,2-Dichloroethane	12	U	
78-93-3	2-Butanone	12	U	
71-55-6	1,1,1-Trichloroethane	12	U	
56-23-5	Carbon Tetrachloride	12	U	
75-27-4	Bromodichloromethane	12	U	
78-87-5	1,2-Dichloropropane	12	U	
10061-01-5	cis-1,3-dichloropropene	12	U	
79-01-6	Trichloroethene	12	U	
124-48-1	Dibromochloromethane	12	U	
79-00-5	1,1,2-Trichloroethane	12	U	
71-43-2	Benzene	12	U	
10061-02-6	trans-1,3-dichloropropene	12	U	
75-25-2	Bromoform	12	U	
108-10-1	4-Methyl-2-Pentanone	12	U	
591-78-6	2-Hexanone	12	U	
127-18-4	Tetrachloroethene	12	U	
79-34-5	1,1,2,2-Tetrachloroethane	12	U	
108-88-3	Toluene	12	U	
108-90-7	Chlorobenzene	12	U	
100-41-4	Ethylbenzene	12	U	
100-42-5	Styrene	12	U	
1330-20-7	Total Xylenes	12	U	

QV = QUALIFIER AFTER VALIDATION

FORM I VOA

3/90

AR304997

Review: M1 Level

1A
VOLATILE ORGANICS ANA

Location: KOPSB203/ 6-8

EPA SAMPLE NO.
0019

CNF14

Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4493006

Sample wt/vol: 5.3 (g/mL) G Lab File ID: G9987

Level: (low/med) LOW Date Received: 09/16/94

% Moisture: not dec. 20 Date Analyzed: 09/20/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q	QV
74-87-3	Chloromethane	12	U	
74-83-9	Bromomethane	12	U	
75-01-4	Vinyl Chloride	12	U	
75-00-3	Chloroethane	12	U	
75-09-2	Methylene Chloride	12	U	
67-64-1	Acetone	170		
75-15-0	Carbon Disulfide	12	U	
75-35-4	1,1-Dichloroethene	12	U	
75-34-3	1,1-Dichloroethane	12	U	
540-59-0	1,2-Dichloroethene (total)	12	U	
67-66-3	Chloroform	12	U	
107-06-2	1,2-Dichloroethane	12	U	
78-93-3	2-Butanone	12	U	
71-55-6	1,1,1-Trichloroethane	12	U	
56-23-5	Carbon Tetrachloride	12	U	
75-27-4	Bromodichloromethane	12	U	
78-87-5	1,2-Dichloropropane	12	U	
10061-01-5	cis-1,3-dichloropropene	12	U	
79-01-6	Trichloroethene	12	U	
124-48-1	Dibromochloromethane	12	U	
79-00-5	1,1,2-Trichloroethane	12	U	
71-43-2	Benzene	12	U	
10061-02-6	trans-1,3-dichloropropene	12	U	
75-25-2	Bromoform	12	U	
108-10-1	4-Methyl-2-Pentanone	12	U	
591-78-6	2-Hexanone	12	U	
127-18-4	Tetrachloroethene	12	U	
79-34-5	1,1,2,2-Tetrachloroethane	12	U	
108-88-3	Toluene	12	U	
108-90-7	Chlorobenzene	12	U	
100-41-4	Ethylbenzene	12	U	
100-42-5	Styrene	12	U	
1330-20-7	Total Xylenes	12	U	

QV = QUALIFIER AFTER VALIDATION

FORM I VOA

AR304998

3/90

Review: M1 Level

1A
VOLATILE ORGANICS ANAL

Location: KOPTB09

Trip Blank

EPA SAMPLE NO. 0022

CNF15

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) WATER Lab Sample ID: A4493008

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: G9982

Level: (low/med) LOW Date Received: 09/16/94

% Moisture: not dec. ____ Date Analyzed: 09/20/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q	QV
74-87-3	Chloromethane	10	U	
74-83-9	Bromomethane	10	U	
75-01-4	Vinyl Chloride	10	U	
75-00-3	Chloroethane	10	U	
75-09-2	Methylene Chloride	1	J	J
67-64-1	Acetone	10	U	
75-15-0	Carbon Disulfide	10	U	
75-35-4	1,1-Dichloroethene	10	U	
75-34-3	1,1-Dichloroethane	10	U	
540-59-0	1,2-Dichloroethene (total)	10	U	
67-66-3	Chloroform	33		
107-06-2	1,2-Dichloroethane	10	U	
78-93-3	2-Butanone	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
56-23-5	Carbon Tetrachloride	10	U	
75-27-4	Bromodichloromethane	3	J	J
78-87-5	1,2-Dichloropropane	10	U	
10061-01-5	cis-1,3-dichloropropene	10	U	
79-01-6	Trichloroethene	10	U	
124-48-1	Dibromochloromethane	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
71-43-2	Benzene	10	U	
10061-02-6	trans-1,3-dichloropropene	10	U	
75-25-2	Bromoform	10	U	
108-10-1	4-Methyl-2-Pentanone	10	U	
591-78-6	2-Hexanone	10	U	
127-18-4	Tetrachloroethene	10	U	
79-34-5	1,1,2,2-Tetrachloroethane	10	U	
108-88-3	Toluene	10	U	
108-90-7	Chlorobenzene	10	U	
100-41-4	Ethylbenzene	10	U	
100-42-5	Styrene	10	U	
1330-20-7	Total Xylenes	10	U	

8/3 11/3/94

QV = QUALIFIER AFTER VALIDATION

FORM I VOA

3/90

AR304999

Review: M1 Level

1A
VOLATILE ORGANICS ANAI

Location: KOPSB205/0-2

EPA SAMPLE NO.
0023
CNF17

L Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4500402

Sample wt/vol: 5.0 (g/mL) G Lab File ID: G1003

Level: (low/med) LOW Date Received: 09/21/94

% Moisture: not dec. 17 Date Analyzed: 09/21/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q	QV
74-87-3	Chloromethane	12	U	
74-83-9	Bromomethane	12	U	
75-01-4	Vinyl Chloride	12	U	
75-00-3	Chloroethane	12	U	
75-09-2	Methylene Chloride	12	U	
67-64-1	Acetone	12	U	
75-15-0	Carbon Disulfide	12	U	
75-35-4	1,1-Dichloroethene	12	U	
75-34-3	1,1-Dichloroethane	12	U	
540-59-0	1,2-Dichloroethene (total)	12	U	
67-66-3	Chloroform	12	U	
107-06-2	1,2-Dichloroethane	12	U	
78-93-3	2-Butanone	12	U	
71-55-6	1,1,1-Trichloroethane	12	U	
56-23-5	Carbon Tetrachloride	12	U	
75-27-4	Bromodichloromethane	12	U	
78-87-5	1,2-Dichloropropane	12	U	
10061-01-5	cis-1,3-dichloropropene	12	U	
79-01-6	Trichloroethene	12	U	
124-48-1	Dibromochloromethane	12	U	
79-00-5	1,1,2-Trichloroethane	12	U	
71-43-2	Benzene	12	U	
10061-02-6	trans-1,3-dichloropropene	12	U	
75-25-2	Bromoform	12	U	
108-10-1	4-Methyl-2-Pentanone	12	U	
591-78-6	2-Hexanone	12	U	
127-18-4	Tetrachloroethene	12	U	
79-34-5	1,1,2,2-Tetrachloroethane	12	U	
108-88-3	Toluene	12	U	
108-90-7	Chlorobenzene	12	U	
100-41-4	Ethylbenzene	12	U	
100-42-5	Styrene	12	U	
1330-20-7	Total Xylenes	12	U	

QV = QUALIFIER AFTER VALIDATION

FORM I VOA

AR305000

3/90

Review: M1 Level

1A
VOLATILE ORGANICS ANAL

Location: KOPSB205/6-8

EPA SAMPLE NO.
0025

CNF18

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4500403

Sample wt/vol: 5.1 (g/mL) G Lab File ID: G1004

Level: (low/med) LOW Date Received: 09/21/94

% Moisture: not dec. 17 Date Analyzed: 09/21/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q	QV
74-87-3	Chloromethane	12	U	
74-83-9	Bromomethane	12	U	
75-01-4	Vinyl Chloride	12	U	
75-00-3	Chloroethane	12	U	
75-09-2	Methylene Chloride	12	U	
67-64-1	Acetone	12	U	
75-15-0	Carbon Disulfide	12	U	
75-35-4	1,1-Dichloroethene	12	U	
75-34-3	1,1-Dichloroethane	12	U	
540-59-0	1,2-Dichloroethene (total)	12	U	
67-66-3	Chloroform	12	U	
107-06-2	1,2-Dichloroethane	12	U	
78-93-3	2-Butanone	12	U	
71-55-6	1,1,1-Trichloroethane	12	U	
56-23-5	Carbon Tetrachloride	12	U	
75-27-4	Bromodichloromethane	12	U	
78-87-5	1,2-Dichloropropane	12	U	
10061-01-5	cis-1,3-dichloropropene	12	U	
79-01-6	Trichloroethene	12	U	
124-48-1	Dibromochloromethane	12	U	
79-00-5	1,1,2-Trichloroethane	12	U	
71-43-2	Benzene	12	U	
10061-02-6	trans-1,3-dichloropropene	12	U	
75-25-2	Bromoform	12	U	
108-10-1	4-Methyl-2-Pentanone	12	U	
591-78-6	2-Hexanone	12	U	
127-18-4	Tetrachloroethene	12	U	
79-34-5	1,1,2,2-Tetrachloroethane	12	U	
108-88-3	Toluene	12	U	
108-90-7	Chlorobenzene	12	U	
100-41-4	Ethylbenzene	12	U	
100-42-5	Styrene	12	U	
1330-20-7	Total Xylenes	12	U	

QV = QUALIFIER AFTER VALIDATION

FORM I VOA

3/90

AR305001

Review: M1 Level

1A
VOLATILE ORGANICS ANA

Location:KOPSB607/2-4

EPA SAMPLE NO.
0027

CNF20

L Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4500405

Sample wt/vol: 5.1 (g/mL) G Lab File ID: G1011

Level: (low/med) LOW Date Received: 09/21/94

% Moisture: not dec. 14 Date Analyzed: 09/22/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q	QV
74-87-3	Chloromethane	11	U	
74-83-9	Bromomethane	11	U	
75-01-4	Vinyl Chloride	11	U	
75-00-3	Chloroethane	11	U	
75-09-2	Methylene Chloride	11	U	
67-64-1	Acetone	23		
75-15-0	Carbon Disulfide	11	U	
75-35-4	1,1-Dichloroethene	11	U	
75-34-3	1,1-Dichloroethane	11	U	sh 11/3/94
540-59-0	1,2-Dichloroethene (total)	11	U	
67-66-3	Chloroform	11	U	
107-06-2	1,2-Dichloroethane	11	U	
78-93-3	2-Butanone	11	U	
71-55-6	1,1,1-Trichloroethane	11	U	
56-23-5	Carbon Tetrachloride	11	U	
75-27-4	Bromodichloromethane	11	U	
78-87-5	1,2-Dichloropropane	11	U	
10061-01-5	cis-1,3-dichloropropene	11	U	
79-01-6	Trichloroethene	11	U	
124-48-1	Dibromochloromethane	11	U	
79-00-5	1,1,2-Trichloroethane	11	U	
71-43-2	Benzene	11	U	
10061-02-6	trans-1,3-dichloropropene	11	U	
75-25-2	Bromoform	11	U	
108-10-1	4-Methyl-2-Pentanone	11	U	
591-78-6	2-Hexanone	11	U	
127-18-4	Tetrachloroethene	11	U	
79-34-5	1,1,2,2-Tetrachloroethane	11	U	
108-88-3	Toluene	11	U	
108-90-7	Chlorobenzene	11	U	
100-41-4	Ethylbenzene	11	U	
100-42-5	Styrene	11	U	
1330-20-7	Total Xylenes	11	U	

QV = QUALIFIER AFTER VALIDATION

FORM I VOA

Review: M1 Level

VOLATILE ORGANICS 1A ANA

Location:KOPSB607/4-6

EPA SAMPLE NO.

0029

CNF21

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4500406

Sample wt/vol: 5.2 (g/mL) G Lab File ID: G1006

Level: (low/med) LOW Date Received: 09/21/94

% Moisture: not dec. 17 Date Analyzed: 09/21/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q	QV
74-87-3	Chloromethane	12	U	
74-83-9	Bromomethane	12	U	
75-01-4	Vinyl Chloride	12	U	
75-00-3	Chloroethane	12	U	
75-09-2	Methylene Chloride	12	U	
67-64-1	Acetone	150		
75-15-0	Carbon Disulfide	12	U	
75-35-4	1,1-Dichloroethene	12	U	
75-34-3	1,1-Dichloroethane	12	U	
540-59-0	1,2-Dichloroethene (total)	12	U	
67-66-3	Chloroform	12	U	
107-06-2	1,2-Dichloroethane	12	U	
78-93-3	2-Butanone	12	U	
71-55-6	1,1,1-Trichloroethane	12	U	
56-23-5	Carbon Tetrachloride	12	U	
75-27-4	Bromodichloromethane	12	U	
78-87-5	1,2-Dichloropropane	12	U	
10061-01-5	cis-1,3-dichloropropene	12	U	
79-01-6	Trichloroethene	12	U	
124-48-1	Dibromochloromethane	12	U	
79-00-5	1,1,2-Trichloroethane	12	U	
71-43-2	Benzene	12	U	
10061-02-6	trans-1,3-dichloropropene	12	U	
75-25-2	Bromoform	12	U	
108-10-1	4-Methyl-2-Pentanone	12	U	
591-78-6	2-Hexanone	12	U	
127-18-4	Tetrachloroethene	12	U	
79-34-5	1,1,2,2-Tetrachloroethane	12	U	
108-88-3	Toluene	12	U	
108-90-7	Chlorobenzene	12	U	
100-41-4	Ethylbenzene	12	U	
100-42-5	Styrene	12	U	
1330-20-7	Total Xylenes	12	U	

QV = QUALIFIER AFTER VALIDATION

FORM I VOA

AR305003

3

Review: M1 Level

1A
VOLATILE ORGANICS ANA

Location:KOPSB124/8-10

EPA SAMPLE NO.
0031

CNF22

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4506803

Sample wt/vol: 5.1 (g/mL) G Lab File ID: G1045

Level: (low/med) LOW Date Received: 09/23/94

% Moisture: not dec. 17 Date Analyzed: 09/27/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND			Q	QV
74-87-3	Chloromethane		12	U	
74-83-9	Bromomethane		12	U	
75-01-4	Vinyl Chloride		12	U	
75-00-3	Chloroethane		12	U	
75-09-2	Methylene Chloride	*	5 ~~12~~	~~U~~	B
67-64-1	Acetone	*	630 290	E	
75-15-0	Carbon Disulfide		12	U	
75-35-4	1,1-Dichloroethene		12	U	
75-34-3	1,1-Dichloroethane		12	U	
540-59-0	1,2-Dichloroethene (total)		12	U	
67-66-3	Chloroform		12	U	
107-06-2	1,2-Dichloroethane		12	U	
78-93-3	2-Butanone		12	U	
71-55-6	1,1,1-Trichloroethane		12	U	
56-23-5	Carbon Tetrachloride		12	U	
75-27-4	Bromodichloromethane		12	U	
78-87-5	1,2-Dichloropropane		12	U	
10061-01-5	cis-1,3-dichloropropene		12	U	
79-01-6	Trichloroethene		12	U	
124-48-1	Dibromochloromethane		12	U	
79-00-5	1,1,2-Trichloroethane		12	U	
71-43-2	Benzene		12	U	
10061-02-6	trans-1,3-dichloropropene		12	U	
75-25-2	Bromoform		12	U	
108-10-1	4-Methyl-2-Pentanone		12	U	
591-78-6	2-Hexanone		12	U	
127-18-4	Tetrachloroethene		12	U	
79-34-5	1,1,2,2-Tetrachloroethane		12	U	
108-88-3	Toluene		12	U	
108-90-7	Chlorobenzene		12	U	
100-41-4	Ethylbenzene		2	J	J
100-42-5	Styrene		12	U	
1330-20-7	Total Xylenes		12	U	

gh 11/13/94

AR305004

QV = QUALIFIER AFTER VALIDATION

FORM I VOA

* Reported from diluted analysis

3/90

Review: M1 Level

1A
VOLATILE ORGANICS ANAL

Location: KOPSB124/2-4

EPA SAMPLE NO.
0035

CNF23

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4506802

Sample wt/vol: 5.2 (g/mL) G Lab File ID: G1025

Level: (low/med) LOW Date Received: 09/23/94

% Moisture: not dec. 16 Date Analyzed: 09/26/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q	QV
74-87-3	Chloromethane	11	U	
74-83-9	Bromomethane	11	U	
75-01-4	Vinyl Chloride	11	U	
75-00-3	Chloroethane	11	U	
75-09-2	Methylene Chloride	11	U	
67-64-1	Acetone	53		
75-15-0	Carbon Disulfide	11	U	
75-35-4	1,1-Dichloroethene	11	U	
75-34-3	1,1-Dichloroethane	11	U	
540-59-0	1,2-Dichloroethene (total)	11	U	
67-66-3	Chloroform	11	U	
107-06-2	1,2-Dichloroethane	11	U	
78-93-3	2-Butanone	11	U	
71-55-6	1,1,1-Trichloroethane	11	U	
56-23-5	Carbon Tetrachloride	11	U	
75-27-4	Bromodichloromethane	11	U	
78-87-5	1,2-Dichloropropane	11	U	
10061-01-5	cis-1,3-dichloropropene	11	U	
79-01-6	Trichloroethene	11	U	
124-48-1	Dibromochloromethane	11	U	
79-00-5	1,1,2-Trichloroethane	11	U	
71-43-2	Benzene	11	U	
10061-02-6	trans-1,3-dichloropropene	11	U	
75-25-2	Bromoform	11	U	
108-10-1	4-Methyl-2-Pentanone	11	U	
591-78-6	2-Hexanone	11	U	
127-18-4	Tetrachloroethene	11	U	
79-34-5	1,1,2,2-Tetrachloroethane	11	U	
108-88-3	Toluene	11	U	
108-90-7	Chlorobenzene	11	U	
100-41-4	Ethylbenzene	9	J	J
100-42-5	Styrene	11	U	
1330-20-7	Total Xylenes	14		

Sh.s 11/3/94

QV = QUALIFIER AFTER VALIDATION

FORM I VOA

3/90

AR305005

Review: M1 Level

VOLATILE ORGANICS 1A A1

Location:KOPSB602/2-4

EPA SAMPLE NO.
0037

CNF25

Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4506804

Sample wt/vol: 5.1 (g/mL) G Lab File ID: G1046

Level: (low/med) LOW Date Received: 09/23/94

% Moisture: not dec. 15 Date Analyzed: 09/27/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q	QV
74-87-3	Chloromethane	12	U	
74-83-9	Bromomethane	12	U	
75-01-4	Vinyl Chloride	12	U	
75-00-3	Chloroethane	12	U	
75-09-2	Methylene Chloride	12	U	
67-64-1	Acetone	62		
75-15-0	Carbon Disulfide	12	U	
75-35-4	1,1-Dichloroethene	12	U	
75-34-3	1,1-Dichloroethane	12	U	
540-59-0	1,2-Dichloroethene (total)	12	U	
67-66-3	Chloroform	12	U	
107-06-2	1,2-Dichloroethane	12	U	
78-93-3	2-Butanone	12	U	
71-55-6	1,1,1-Trichloroethane	12	U	
56-23-5	Carbon Tetrachloride	12	U	
75-27-4	Bromodichloromethane	12	U	
78-87-5	1,2-Dichloropropane	12	U	
10061-01-5	cis-1,3-dichloropropene	12	U	
79-01-6	Trichloroethene	12	U	
124-48-1	Dibromochloromethane	12	U	
79-00-5	1,1,2-Trichloroethane	12	U	
71-43-2	Benzene	12	U	
10061-02-6	trans-1,3-dichloropropene	12	U	
75-25-2	Bromoform	12	U	
108-10-1	4-Methyl-2-Pentanone	12	U	
591-78-6	2-Hexanone	12	U	
127-18-4	Tetrachloroethene	12	U	
79-34-5	1,1,2,2-Tetrachloroethane	12	U	
108-88-3	Toluene	12	U	
108-90-7	Chlorobenzene	12	U	
100-41-4	Ethylbenzene	12	U	
100-42-5	Styrene	12	U	
1330-20-7	Total Xylenes	12	U	

Shs 11/3/94

QV = QUALIFIER AFTER VALIDATION

FORM I VOA

AR305006

3/90

Review: M1 Level

1A
VOLATILE ORGANICS ANA

Location:KOPSB303/6-8

EPA SAMPLE NO.
0039

CNF28

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4506806

Sample wt/vol: 5.1 (g/mL) G Lab File ID: G1047

Level: (low/med) LOW Date Received: 09/23/94

% Moisture: not dec. 16 Date Analyzed: 09/27/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q	QV
74-87-3	Chloromethane	12	U	
74-83-9	Bromomethane	12	U	
75-01-4	Vinyl Chloride	12	U	
75-00-3	Chloroethane	12	U	
75-09-2	Methylene Chloride	12	U	
67-64-1	Acetone	12	U	
75-15-0	Carbon Disulfide	12	U	
75-35-4	1,1-Dichloroethene	12	U	
75-34-3	1,1-Dichloroethane	12	U	
540-59-0	1,2-Dichloroethene (total)	12	U	
67-66-3	Chloroform	12	U	
107-06-2	1,2-Dichloroethane	12	U	
78-93-3	2-Butanone	12	U	
71-55-6	1,1,1-Trichloroethane	12	U	
56-23-5	Carbon Tetrachloride	12	U	
75-27-4	Bromodichloromethane	12	U	
78-87-5	1,2-Dichloropropane	12	U	
10061-01-5	cis-1,3-dichloropropene	12	U	
79-01-6	Trichloroethene	12	U	
124-48-1	Dibromochloromethane	12	U	
79-00-5	1,1,2-Trichloroethane	12	U	
71-43-2	Benzene	12	U	
10061-02-6	trans-1,3-dichloropropene	12	U	
75-25-2	Bromoform	12	U	
108-10-1	4-Methyl-2-Pentanone	12	U	
591-78-6	2-Hexanone	12	U	
127-18-4	Tetrachloroethene	12	U	
79-34-5	1,1,2,2-Tetrachloroethane	12	U	
108-88-3	Toluene	12	U	
108-90-7	Chlorobenzene	12	U	
100-41-4	Ethylbenzene	12	U	
100-42-5	Styrene	12	U	
1330-20-7	Total Xylenes	12	U	

QV = QUALIFIER AFTER VALIDATION

FORM I VOA

AR305007

Review: M1 Level

1A
VOLATILE ORGANICS ANALY

Location: KOPSB303/8-10

EPA SAMPLE NO.

0041
CNF29

L Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4506807

Sample wt/vol: 5.2 (g/mL) G Lab File ID: G1029

Level: (low/med) LOW Date Received: 09/23/94

% Moisture: not dec. 22 Date Analyzed: 09/26/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	QV
74-87-3	Chloromethane	12	U	
74-83-9	Bromomethane	12	U	
75-01-4	Vinyl Chloride	12	U	
75-00-3	Chloroethane	12	U	
75-09-2	Methylene Chloride	12	U	
67-64-1	Acetone	12	U	
75-15-0	Carbon Disulfide	12	U	
75-35-4	1,1-Dichloroethene	12	U	
75-34-3	1,1-Dichloroethane	12	U	
540-59-0	1,2-Dichloroethene (total)	12	U	
67-66-3	Chloroform	12	U	
107-06-2	1,2-Dichloroethane	12	U	
78-93-3	2-Butanone	12	U	
71-55-6	1,1,1-Trichloroethane	12	U	
56-23-5	Carbon Tetrachloride	12	U	
75-27-4	Bromodichloromethane	12	U	
78-87-5	1,2-Dichloropropane	12	U	
10061-01-5	cis-1,3-dichloropropene	12	U	
79-01-6	Trichloroethene	12	U	
124-48-1	Dibromochloromethane	12	U	
79-00-5	1,1,2-Trichloroethane	12	U	
71-43-2	Benzene	12	U	
10061-02-6	trans-1,3-dichloropropene	12	U	
75-25-2	Bromoform	12	U	
108-10-1	4-Methyl-2-Pentanone	12	U	
591-78-6	2-Hexanone	12	U	
127-18-4	Tetrachloroethene	12	U	
79-34-5	1,1,2,2-Tetrachloroethane	12	U	
108-88-3	Toluene	12	U	
108-90-7	Chlorobenzene	12	U	
100-41-4	Ethylbenzene	12	U	
100-42-5	Styrene	12	U	
1330-20-7	Total Xylenes	12	U	

QV = QUALIFIER AFTER VALIDATION

FORM I VOA

AR305008

Review: M1 Level

1A
VOLATILE ORGANICS ANAL

Location: KOPSB128/2-4

EPA SAMPLE NO.
10043

CNF32

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4508202

Sample wt/vol: 5.0 (g/mL) G Lab File ID: G1057

Level: (low/med) LOW Date Received: 09/24/94

% Moisture: not dec. 19 Date Analyzed: 09/27/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q QV
74-87-3	Chloromethane	12	U	
74-83-9	Bromomethane	12	U	
75-01-4	Vinyl Chloride	12	U	
75-00-3	Chloroethane	12	U	
75-09-2	Methylene Chloride	0.9	J	B
67-64-1	Acetone	12	U	
75-15-0	Carbon Disulfide	12	U	
75-35-4	1,1-Dichloroethene	12	U	
75-34-3	1,1-Dichloroethane	12	U	
540-59-0	1,2-Dichloroethene (total)	12	U	
67-66-3	Chloroform	12	U	
107-06-2	1,2-Dichloroethane	12	U	
78-93-3	2-Butanone	12	U	
71-55-6	1,1,1-Trichloroethane	12	U	
56-23-5	Carbon Tetrachloride	12	U	
75-27-4	Bromodichloromethane	12	U	
78-87-5	1,2-Dichloropropane	12	U	
10061-01-5	cis-1,3-dichloropropene	12	U	
79-01-6	Trichloroethene	12	U	
124-48-1	Dibromochloromethane	12	U	
79-00-5	1,1,2-Trichloroethane	12	U	
71-43-2	Benzene	12	U	
10061-02-6	trans-1,3-dichloropropene	12	U	
75-25-2	Bromoform	12	U	
108-10-1	4-Methyl-2-Pentanone	12	U	
591-78-6	2-Hexanone	12	U	
127-18-4	Tetrachloroethene	12	U	
79-34-5	1,1,2,2-Tetrachloroethane	12	U	
108-88-3	Toluene	12	U	
108-90-7	Chlorobenzene	12	U	
100-41-4	Ethylbenzene	12	U	
100-42-5	Styrene	12	U	
1330-20-7	Total Xylenes	12	U	

SK.S 11/3/94

QV = QUALIFIER AFTER VALIDATION

FORM I VOA

3/90

AR305009

Review: M1 Level

1A
VOLATILE ORGANICS ANAL

Location:KOPSB128/6-8

EPA SAMPLE NO.
~~0045~~
CNF33

1 Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4508203

Sample wt/vol: 5.2 (g/mL) G Lab File ID: G1058

Level: (low/med) LOW Date Received: 09/24/94

% Moisture: not dec. 14 Date Analyzed: 09/27/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q	QV
74-87-3	Chloromethane	11	U	
74-83-9	Bromomethane	11	U	
75-01-4	Vinyl Chloride	11	U	
75-00-3	Chloroethane	11	U	
75-09-2	Methylene Chloride	1	J	B
67-64-1	Acetone	22		
75-15-0	Carbon Disulfide	11	U	
75-35-4	1,1-Dichloroethene	11	U	
75-34-3	1,1-Dichloroethane	11	U	
540-59-0	1,2-Dichloroethene (total)	11	U	
67-66-3	Chloroform	11	U	
107-06-2	1,2-Dichloroethane	11	U	
78-93-3	2-Butanone	11	U	
71-55-6	1,1,1-Trichloroethane	11	U	
56-23-5	Carbon Tetrachloride	11	U	
75-27-4	Bromodichloromethane	11	U	
78-87-5	1,2-Dichloropropane	11	U	
10061-01-5	cis-1,3-dichloropropene	11	U	
79-01-6	Trichloroethene	11	U	
124-48-1	Dibromochloromethane	11	U	
79-00-5	1,1,2-Trichloroethane	11	U	
71-43-2	Benzene	11	U	
10061-02-6	trans-1,3-dichloropropene	11	U	
75-25-2	Bromoform	11	U	
108-10-1	4-Methyl-2-Pentanone	11	U	
591-78-6	2-Hexanone	11	U	
127-18-4	Tetrachloroethene	11	U	
79-34-5	1,1,2,2-Tetrachloroethane	11	U	
108-88-3	Toluene	11	U	
108-90-7	Chlorobenzene	11	U	
100-41-4	Ethylbenzene	11	U	
100-42-5	Styrene	11	U	
1330-20-7	Total Xylenes	11	U	

CW

11/3/94

QV = QUALIFIER AFTER VALIDATION

FORM I VOA

AR305010

3/90

Review: M1 Level

SEMIVOLATILE ORGANICS 1B Ai

Location: KOPSB216/4-6

EPA SAMPLE NO. 0047

CKS98

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4493002

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 20725Z

Level: (low/med) LOW Date Received: 09/16/94

% Moisture: 14 decanted: (Y/N) N Date Extracted: 09/20/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/01/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	QV
108-95-2	Phenol	380	U	
111-44-4	bis(2-Chloroethyl)Ether	380	U	
95-57-8	2-Chlorophenol	380	U	
541-73-1	1,3-Dichlorobenzene	380	U	
106-46-7	1,4-Dichlorobenzene	380	U	
95-50-1	1,2-Dichlorobenzene	380	U	
95-48-7	2-Methylphenol	380	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U	
106-44-5	4-Methylphenol	380	U	
621-64-7	N-Nitroso-Di-n-Propylamine	380	U	
67-72-1	Hexachloroethane	380	U	
98-95-3	Nitrobenzene	380	U	
78-59-1	Isophorone	380	U	
88-75-5	2-Nitrophenol	380	U	
105-67-9	2,4-Dimethylphenol	380	U	
111-91-1	bis(2-Chloroethoxy)Methane	380	U	
120-83-2	2,4-Dichlorophenol	380	U	
120-82-1	1,2,4-Trichlorobenzene	380	U	
91-20-3	Naphthalene	380	U	
106-47-8	4-Chloroaniline	380	U	
87-68-3	Hexachlorobutadiene	380	U	
59-50-7	4-Chloro-3-Methylphenol	380	U	
91-57-6	2-Methylnaphthalene	380	U	
77-47-4	Hexachlorocyclopentadiene	380	U	
88-06-2	2,4,6-Trichlorophenol	380	U	
95-95-4	2,4,5-Trichlorophenol	930	U	
91-58-7	2-Chloronaphthalene	380	U	
88-74-4	2-Nitroaniline	930	U	
131-11-3	Dimethyl Phthalate	380	U	
208-96-8	Acenaphthylene	380	U	
606-20-2	2,6-Dinitrotoluene	380	U	
99-09-2	3-Nitroaniline	930	U	
83-32-9	Acenaphthene	380	U	

QV = QUALIFIER AFTER VALIDATION

FORM I SV-1 AR305011

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0048

CKS98

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4493002

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 20725Z

Level: (low/med) LOW Date Received: 09/16/94

% Moisture: 14' decanted: (Y/N) N Date Extracted: 09/20/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/01/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y. pH: 6.9

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q	Q
51-28-5	2,4-Dinitrophenol	930	U	
100-02-7	4-Nitrophenol	930	U	
132-64-9	Dibenzofuran	380	U	
121-14-2	2,4-Dinitrotoluene	380	U	
84-66-2	Diethylphthalate	380	U	
7005-72-3	4-Chlorophenyl-phenylether	380	U	
86-73-7	Fluorene	380	U	
100-01-6	4-Nitroaniline	930	U	
534-52-1	4,6-Dinitro-2-Methylphenol	930	U	
86-30-6	N-Nitrosodiphenylamine (1)	380	U	
101-55-3	4-Bromophenyl-phenylether	380	U	
118-74-1	Hexachlorobenzene	380	U	
87-86-5	Pentachlorophenol	930	U	
85-01-8	Phenanthrene	380	U	
120-12-7	Anthracene	380	U	
86-74-8	Carbazole	380	U	
84-74-2	Di-n-Butylphthalate	24	J	B
206-44-0	Fluoranthene	44	J	J
129-00-0	Pyrene	50	J	J
85-68-7	Butylbenzylphthalate	380	U	
91-94-1	3,3'-Dichlorobenzidine	380	U	
56-55-3	Benzo(a)Anthracene	26	J	J
218-01-9	Chrysene	54	J	J
117-81-7	Bis(2-Ethylhexyl)Phthalate	95	J	B
117-84-0	Di-n-Octyl Phthalate	380	U	
205-99-2	Benzo(b)Fluoranthene	55	J	J
207-08-9	Benzo(k)Fluoranthene	20	J	J
50-32-8	Benzo(a)Pyrene	380	U	
193-39-5	Indeno(1,2,3-cd)Pyrene	380	U	
53-70-3	Dibenz(a,h)Anthracene	380	U	
191-24-2	Benzo(g,h,i)Perylene	380	U	

Sh.s 11/3/94

AR305012

Review: M1 Level

1B
SEMIVOLATILE ORGANICS ANAI

Location: KOPSB216/2-4

EPA SAMPLE NO.
0050

CKS99

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4493003

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 20726Z

Level: (low/med) LOW Date Received: 09/16/94

% Moisture: 17 decanted: (Y/N) N Date Extracted: 09/20/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/01/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	QV
108-95-2	Phenol	400	U	
111-44-4	bis(2-Chloroethyl)Ether	400	U	
95-57-8	2-Chlorophenol	400	U	
541-73-1	1,3-Dichlorobenzene	400	U	
106-46-7	1,4-Dichlorobenzene	400	U	
95-50-1	1,2-Dichlorobenzene	400	U	
95-48-7	2-Methylphenol	400	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	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	
111-91-1	bis(2-Chloroethoxy)Methane	400	U	
120-83-2	2,4-Dichlorophenol	400	U	
120-82-1	1,2,4-Trichlorobenzene	400	U	
91-20-3	Naphthalene	400	U	
106-47-8	4-Chloroaniline	400	U	
87-68-3	Hexachlorobutadiene	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	960	U	
91-58-7	2-Chloronaphthalene	400	U	
88-74-4	2-Nitroaniline	960	U	
131-11-3	Dimethyl Phthalate	400	U	
208-96-8	Acenaphthylene	400	U	
606-20-2	2,6-Dinitrotoluene	400	U	
99-09-2	3-Nitroaniline	960	U	
83-32-9	Acenaphthene	400	U	

QV = QUALIFIER AFTER VALIDATION

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
0051

CKS99

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4493003

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 20726Z

Level: (low/med) LOW Date Received: 09/16/94

% Moisture: 17 decanted: (Y/N) N Date Extracted: 09/20/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/01/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.7

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q	QV
51-28-5	2,4-Dinitrophenol	960	U	
100-02-7	4-Nitrophenol	960	U	
132-64-9	Dibenzofuran	400	U	
121-14-2	2,4-Dinitrotoluene	400	U	
84-66-2	Diethylphthalate	400	U	
7005-72-3	4-Chlorophenyl-phenylether	400	U	
86-73-7	Fluorene	400	U	
100-01-6	4-Nitroaniline	960	U	
534-52-1	4,6-Dinitro-2-Methylphenol	960	U	
86-30-6	N-Nitrosodiphenylamine (1)	400	U	
101-55-3	4-Bromophenyl-phenylether	400	U	
118-74-1	Hexachlorobenzene	400	U	
87-86-5	Pentachlorophenol	960	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	87	J	J
129-00-0	Pyrene	82	J	J
85-68-7	Butylbenzylphthalate	400	U	
91-94-1	3,3'-Dichlorobenzidine	400	U	
56-55-3	Benzo(a)Anthracene	45	J	J
218-01-9	Chrysene	79	J	J
117-81-7	Bis(2-Ethylhexyl)Phthalate	45	J	B
117-84-0	Di-n-Octyl Phthalate	400	U	
205-99-2	Benzo(b)Fluoranthene	86	J	J
207-08-9	Benzo(k)Fluoranthene	32	J	J
50-32-8	Benzo(a)Pyrene	43	J	J
193-39-5	Indeno(1,2,3-cd)Pyrene	400	U	
53-70-3	Dibenz(a,h)Anthracene	400	U	
191-24-2	Benzo(g,h,i)Perylene	400	U	

sh.s 11/3/94

AR305014

Review: M1 Level

SEMIVOLATILE ORGANICS AN 1B

Location: KOPSB609/4-6

EPA SAMPLE NO

0053

CNF11

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4493004

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 20727Z

Level: (low/med) LOW Date Received: 09/16/94

% Moisture: 3 decanted: (Y/N) N Date Extracted: 09/20/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/01/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.3

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	QV
108-95-2	Phenol	340	U	
111-44-4	bis(2-Chloroethyl)Ether	340	U	
95-57-8	2-Chlorophenol	340	U	
541-73-1	1,3-Dichlorobenzene	340	U	
106-46-7	1,4-Dichlorobenzene	340	U	
95-50-1	1,2-Dichlorobenzene	340	U	
95-48-7	2-Methylphenol	340	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	340	U	
106-44-5	4-Methylphenol	340	U	
621-64-7	N-Nitroso-Di-n-Propylamine	340	U	
67-72-1	Hexachloroethane	340	U	
98-95-3	Nitrobenzene	340	U	
78-59-1	Isophorone	340	U	
88-75-5	2-Nitrophenol	340	U	
105-67-9	2,4-Dimethylphenol	340	U	
111-91-1	bis(2-Chloroethoxy)Methane	340	U	
120-83-2	2,4-Dichlorophenol	340	U	
120-82-1	1,2,4-Trichlorobenzene	340	U	
91-20-3	Naphthalene	340	U	
106-47-8	4-Chloroaniline	340	U	
87-68-3	Hexachlorobutadiene	340	U	
59-50-7	4-Chloro-3-Methylphenol	340	U	
91-57-6	2-Methylnaphthalene	340	U	
77-47-4	Hexachlorocyclopentadiene	340	U	
88-06-2	2,4,6-Trichlorophenol	340	U	
95-95-4	2,4,5-Trichlorophenol	820	U	
91-58-7	2-Chloronaphthalene	340	U	
88-74-4	2-Nitroaniline	820	U	
131-11-3	Dimethyl Phthalate	340	U	
208-96-8	Acenaphthylene	340	U	
606-20-2	2,6-Dinitrotoluene	340	U	
99-09-2	3-Nitroaniline	820	U	
83-32-9	Acenaphthene	340	U	

QV = QUALIFIER AFTER VALIDATION

FORM I SV-1

AR305015

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
0054
CNF11

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4493004

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 20727Z

Level: (low/med) LOW Date Received: 09/16/94

% Moisture: 3 decanted: (Y/N) N Date Extracted: 09/20/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/01/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.3

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q	QV
51-28-5	2,4-Dinitrophenol	820	U	
100-02-7	4-Nitrophenol	820	U	
132-64-9	Dibenzofuran	340	U	
121-14-2	2,4-Dinitrotoluene	340	U	
84-66-2	Diethylphthalate	340	U	
7005-72-3	4-Chlorophenyl-phenylether	340	U	
86-73-7	Fluorene	340	U	
100-01-6	4-Nitroaniline	820	U	
534-52-1	4,6-Dinitro-2-Methylphenol	820	U	
86-30-6	N-Nitrosodiphenylamine (1)	340	U	
101-55-3	4-Bromophenyl-phenylether	340	U	
118-74-1	Hexachlorobenzene	340	U	
87-86-5	Pentachlorophenol	820	U	
85-01-8	Phenanthrene	340	U	
120-12-7	Anthracene	340	U	
86-74-8	Carbazole	340	U	
84-74-2	Di-n-Butylphthalate	340	U	
206-44-0	Fluoranthene	340	U	
129-00-0	Pyrene	340	U	
85-68-7	Butylbenzylphthalate	340	U	
91-94-1	3,3'-Dichlorobenzidine	340	U	
56-55-3	Benzo(a)Anthracene	340	U	
218-01-9	Chrysene	340	U	
117-81-7	Bis(2-Ethylhexyl)Phthalate	340	U	
117-84-0	Di-n-Octyl Phthalate	340	U	
205-99-2	Benzo(b)Fluoranthene	340	U	
207-08-9	Benzo(k)Fluoranthene	340	U	
50-32-8	Benzo(a)Pyrene	340	U	
193-39-5	Indeno(1,2,3-cd)Pyrene	340	U	
53-70-3	Dibenz(a,h)Anthracene	340	U	
191-24-2	Benzo(g,h,i)Perylene	340	U	

Review: M1 Level

1B
SEMIVOLATILE ORGANICS ANA

Location:KOPSB609/6-8

EPA SAMPLE NO.
~~0056~~
CNF12

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4493005

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 20728Z

Level: (low/med) LOW Date Received: 09/16/94

% Moisture: 6 decanted: (Y/N) N Date Extracted: 09/20/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/01/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	QV
108-95-2	Phenol	350	U	
111-44-4	bis(2-Chloroethyl)Ether	350	U	
95-57-8	2-Chlorophenol	350	U	
541-73-1	1,3-Dichlorobenzene	350	U	
106-46-7	1,4-Dichlorobenzene	350	U	
95-50-1	1,2-Dichlorobenzene	350	U	
95-48-7	2-Methylphenol	350	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	350	U	
106-44-5	4-Methylphenol	350	U	
621-64-7	N-Nitroso-Di-n-Propylamine	350	U	
67-72-1	Hexachloroethane	350	U	
98-95-3	Nitrobenzene	350	U	
78-59-1	Isophorone	350	U	
88-75-5	2-Nitrophenol	350	U	
105-67-9	2,4-Dimethylphenol	350	U	
111-91-1	bis(2-Chloroethoxy)Methane	350	U	
120-83-2	2,4-Dichlorophenol	350	U	
120-82-1	1,2,4-Trichlorobenzene	350	U	
91-20-3	Naphthalene	350	U	
106-47-8	4-Chloroaniline	350	U	
87-68-3	Hexachlorobutadiene	350	U	
59-50-7	4-Chloro-3-Methylphenol	350	U	
91-57-6	2-Methylnaphthalene	350	U	
77-47-4	Hexachlorocyclopentadiene	350	U	
88-06-2	2,4,6-Trichlorophenol	350	U	
95-95-4	2,4,5-Trichlorophenol	850	U	
91-58-7	2-Chloronaphthalene	350	U	
88-74-4	2-Nitroaniline	850	U	
131-11-3	Dimethyl Phthalate	350	U	
208-96-8	Acenaphthylene	350	U	
606-20-2	2,6-Dinitrotoluene	350	U	
99-09-2	3-Nitroaniline	850	U	
83-32-9	Acenaphthene	350	U	

QV = QUALIFIER AFTER VALIDATION

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

0057

CNF12

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4493005

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 20728Z

Level: (low/med) LOW Date Received: 09/16/94

% Moisture: 6 decanted: (Y/N) N Date Extracted: 09/20/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/01/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.2

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q	
51-28-5	2,4-Dinitrophenol	850	U	
100-02-7	4-Nitrophenol	850	U	
132-64-9	Dibenzofuran	350	U	
121-14-2	2,4-Dinitrotoluene	350	U	
84-66-2	Diethylphthalate	350	U	
7005-72-3	4-Chlorophenyl-phenylether	350	U	
86-73-7	Fluorene	350	U	
100-01-6	4-Nitroaniline	850	U	
534-52-1	4,6-Dinitro-2-Methylphenol	850	U	
86-30-6	N-Nitrosodiphenylamine (1)	350	U	
101-55-3	4-Bromophenyl-phenylether	350	U	
118-74-1	Hexachlorobenzene	350	U	
87-86-5	Pentachlorophenol	850	U	
85-01-8	Phenanthrene	350	U	
120-12-7	Anthracene	350	U	
86-74-8	Carbazole	350	U	
84-74-2	Di-n-Butylphthalate	25	J	B
206-44-0	Fluoranthene	350	U	
129-00-0	Pyrene	350	U	
85-68-7	Butylbenzylphthalate	350	U	
91-94-1	3,3'-Dichlorobenzidine	350	U	
56-55-3	Benzo(a)Anthracene	350	U	
218-01-9	Chrysene	350	U	
117-81-7	Bis(2-Ethylhexyl)Phthalate	51	J	B
117-84-0	Di-n-Octyl Phthalate	350	U	
205-99-2	Benzo(b)Fluoranthene	350	U	
207-08-9	Benzo(k)Fluoranthene	350	U	
50-32-8	Benzo(a)Pyrene	350	U	
193-39-5	Indeno(1,2,3-cd)Pyrene	350	U	
53-70-3	Dibenz(a,h)Anthracene	350	U	
191-24-2	Benzo(g,h,i)Perylene	350	U	

AR305018

Review: M1 Level

1B
SEMIVOLATILE ORGANICS ANA

Location:KOPSB203/4-6

EPA SAMPLE NO.

CNF19 0059

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4493007

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 20729Z

Level: (low/med) LOW Date Received: 09/16/94

% Moisture: 19 decanted: (Y/N) N Date Extracted: 09/20/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/01/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	QV
108-95-2	Phenol	410	U	
111-44-4	bis(2-Chloroethyl)Ether	410	U	
95-57-8	2-Chlorophenol	410	U	
541-73-1	1,3-Dichlorobenzene	410	U	
106-46-7	1,4-Dichlorobenzene	410	U	
95-50-1	1,2-Dichlorobenzene	410	U	
95-48-7	2-Methylphenol	410	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	410	U	
106-44-5	4-Methylphenol	410	U	
621-64-7	N-Nitroso-Di-n-Propylamine	410	U	
67-72-1	Hexachloroethane	410	U	
98-95-3	Nitrobenzene	410	U	
78-59-1	Isophorone	410	U	
88-75-5	2-Nitrophenol	410	U	
105-67-9	2,4-Dimethylphenol	410	U	
111-91-1	bis(2-Chloroethoxy)Methane	410	U	
120-83-2	2,4-Dichlorophenol	410	U	
120-82-1	1,2,4-Trichlorobenzene	410	U	
91-20-3	Naphthalene	410	U	
106-47-8	4-Chloroaniline	410	U	
87-68-3	Hexachlorobutadiene	410	U	
59-50-7	4-Chloro-3-Methylphenol	410	U	
91-57-6	2-Methylnaphthalene	410	U	
77-47-4	Hexachlorocyclopentadiene	410	U	
88-06-2	2,4,6-Trichlorophenol	410	U	
95-95-4	2,4,5-Trichlorophenol	990	U	
91-58-7	2-Chloronaphthalene	410	U	
88-74-4	2-Nitroaniline	990	U	
131-11-3	Dimethyl Phthalate	410	U	
208-96-8	Acenaphthylene	410	U	
606-20-2	2,6-Dinitrotoluene	410	U	
99-09-2	3-Nitroaniline	990	U	
83-32-9	Acenaphthene	410	U	

QV = QUALIFIER AFTER VALIDATION

AR305019

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
~~0060~~
CNF13

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4493007

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 20729Z

Level: (low/med) LOW Date Received: 09/16/94

% Moisture: 19 decanted: (Y/N) N Date Extracted: 09/20/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/01/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	QV
51-28-5	2,4-Dinitrophenol	990	U	
100-02-7	4-Nitrophenol	990	U	
132-64-9	Dibenzofuran	410	U	
121-14-2	2,4-Dinitrotoluene	410	U	
84-66-2	Diethylphthalate	410	U	
7005-72-3	4-Chlorophenyl-phenylether	410	U	
86-73-7	Fluorene	410	U	
100-01-6	4-Nitroaniline	990	U	
534-52-1	4,6-Dinitro-2-Methylphenol	990	U	
86-30-6	N-Nitrosodiphenylamine (1)	410	U	
101-55-3	4-Bromophenyl-phenylether	410	U	
118-74-1	Hexachlorobenzene	410	U	
87-86-5	Pentachlorophenol	990	U	
85-01-8	Phenanthrene	410	U	
120-12-7	Anthracene	410	U	
86-74-8	Carbazole	410	U	
84-74-2	Di-n-Butylphthalate	25	J	B
206-44-0	Fluoranthene	410	U	
129-00-0	Pyrene	410	U	
85-68-7	Butylbenzylphthalate	410	U	
91-94-1	3,3'-Dichlorobenzidine	410	U	
56-55-3	Benzo(a)Anthracene	410	U	
218-01-9	Chrysene	410	U	
117-81-7	Bis(2-Ethylhexyl)Phthalate	44	J	B
117-84-0	Di-n-Octyl Phthalate	410	U	
205-99-2	Benzo(b)Fluoranthene	410	U	
207-08-9	Benzo(k)Fluoranthene	410	U	
50-32-8	Benzo(a)Pyrene	410	U	
193-39-5	Indeno(1,2,3-cd)Pyrene	410	U	
53-70-3	Dibenz(a,h)Anthracene	410	U	
191-24-2	Benzo(g,h,i)Perylene	410	U	

11/3/94

AR305020

Review: M1 Level

1B
SEMIVOLATILE ORGANICS ANA

Location: KOPSB203/6-8

EPA SAMPLE NO.
0062
CNF14

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4493006

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 20730Z

Level: (low/med) LOW Date Received: 09/16/94

% Moisture: 20 decanted: (Y/N) N Date Extracted: 09/20/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/01/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	QV
108-95-2	Phenol	410	U	
111-44-4	bis(2-Chloroethyl)Ether	410	U	
95-57-8	2-Chlorophenol	410	U	
541-73-1	1,3-Dichlorobenzene	410	U	
106-46-7	1,4-Dichlorobenzene	410	U	
95-50-1	1,2-Dichlorobenzene	410	U	
95-48-7	2-Methylphenol	410	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	410	U	
106-44-5	4-Methylphenol	410	U	
621-64-7	N-Nitroso-Di-n-Propylamine	410	U	
67-72-1	Hexachloroethane	410	U	
98-95-3	Nitrobenzene	410	U	
78-59-1	Isophorone	410	U	
88-75-5	2-Nitrophenol	410	U	
105-67-9	2,4-Dimethylphenol	410	U	
111-91-1	bis(2-Chloroethoxy)Methane	410	U	
120-83-2	2,4-Dichlorophenol	410	U	
120-82-1	1,2,4-Trichlorobenzene	410	U	
91-20-3	Naphthalene	410	U	
106-47-8	4-Chloroaniline	410	U	
87-68-3	Hexachlorobutadiene	410	U	
59-50-7	4-Chloro-3-Methylphenol	410	U	
91-57-6	2-Methylnaphthalene	410	U	
77-47-4	Hexachlorocyclopentadiene	410	U	
88-06-2	2,4,6-Trichlorophenol	410	U	
95-95-4	2,4,5-Trichlorophenol	1000	U	
91-58-7	2-Chloronaphthalene	410	U	
88-74-4	2-Nitroaniline	1000	U	
131-11-3	Dimethyl Phthalate	410	U	
208-96-8	Acenaphthylene	120	J	J
606-20-2	2,6-Dinitrotoluene	410	U	
99-09-2	3-Nitroaniline	1000	U	
83-32-9	Acenaphthene	410	U	

SH 11/3/94

QV = QUALIFIER AFTER VALIDATION

AR305021

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0063

CNF14

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4493006

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 20730Z

Level: (low/med) LOW Date Received: 09/16/94

% Moisture: 20 decanted: (Y/N) N Date Extracted: 09/20/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/01/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q	CLV
51-28-5	2,4-Dinitrophenol	1000	U	
100-02-7	4-Nitrophenol	1000	U	
132-64-9	Dibenzofuran	410	U	
121-14-2	2,4-Dinitrotoluene	410	U	
84-66-2	Diethylphthalate	410	U	
7005-72-3	4-Chlorophenyl-phenylether	410	U	
86-73-7	Fluorene	410	U	
100-01-6	4-Nitroaniline	1000	U	
534-52-1	4,6-Dinitro-2-Methylphenol	1000	U	
86-30-6	N-Nitrosodiphenylamine (1)	410	U	
101-55-3	4-Bromophenyl-phenylether	410	U	
118-74-1	Hexachlorobenzene	410	U	
87-86-5	Pentachlorophenol	1000	U	
85-01-8	Phenanthrene	67	J	J
120-12-7	Anthracene	58	J	J
86-74-8	Carbazole	410	U	
84-74-2	Di-n-Butylphthalate	43	J	B
206-44-0	Fluoranthene	790		
129-00-0	Pyrene	1200		
85-68-7	Butylbenzylphthalate	410	U	
91-94-1	3,3'-Dichlorobenzidine	410	U	
56-55-3	Benzo(a)Anthracene	610		
218-01-9	Chrysene	990		
117-81-7	Bis(2-Ethylhexyl)Phthalate	61	J	B
117-84-0	Di-n-Octyl Phthalate	410	U	
205-99-2	Benzo(b)Fluoranthene	1900		
207-08-9	Benzo(k)Fluoranthene	520		
50-32-8	Benzo(a)Pyrene	880		
193-39-5	Indeno(1,2,3-cd)Pyrene	440		
53-70-3	Dibenz(a,h)Anthracene	130	J	J
191-24-2	Benzo(g,h,i)Perylene	400	J	J

SHS 11/3/94

Review: M1 Level

SEMIVOLATILE ORGANICS 1B

Location: KOPSB205/0-2

EPA SAMPLE NO.

~~0065~~

CNF17

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4500402

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 17989W

Level: (low/med) LOW Date Received: 09/21/94

% Moisture: 15 decanted: (Y/N) N Date Extracted: 09/22/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/30/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q	QV
108-95-2	Phenol	390	U	
111-44-4	bis(2-Chloroethyl)Ether	390	U	
95-57-8	2-Chlorophenol	390	U	
541-73-1	1,3-Dichlorobenzene	390	U	
106-46-7	1,4-Dichlorobenzene	390	U	
95-50-1	1,2-Dichlorobenzene	390	U	
95-48-7	2-Methylphenol	390	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U	
106-44-5	4-Methylphenol	390	U	
621-64-7	N-Nitroso-Di-n-Propylamine	390	U	
67-72-1	Hexachloroethane	390	U	
98-95-3	Nitrobenzene	390	U	
78-59-1	Isophorone	390	U	
88-75-5	2-Nitrophenol	390	U	
105-67-9	2,4-Dimethylphenol	390	U	
111-91-1	bis(2-Chloroethoxy)Methane	390	U	
120-83-2	2,4-Dichlorophenol	390	U	
120-82-1	1,2,4-Trichlorobenzene	390	U	
91-20-3	Naphthalene	13	J	J
106-47-8	4-Chloroaniline	390	U	
87-68-3	Hexachlorobutadiene	390	U	
59-50-7	4-Chloro-3-Methylphenol	390	U	
91-57-6	2-Methylnaphthalene	390	U	
77-47-4	Hexachlorocyclopentadiene	390	U	
88-06-2	2,4,6-Trichlorophenol	390	U	
95-95-4	2,4,5-Trichlorophenol	940	U	
91-58-7	2-Chloronaphthalene	390	U	
88-74-4	2-Nitroaniline	940	U	
131-11-3	Dimethyl Phthalate	390	U	
208-96-8	Acenaphthylene	66	J	J
606-20-2	2,6-Dinitrotoluene	390	U	
99-09-2	3-Nitroaniline	940	U	
83-32-9	Acenaphthene	5	J	J

Sh.s 11/3/94

AR305023

QV = QUALIFIER AFTER VALIDATION

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0066
CNF17

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4500402

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 17989W

Level: (low/med) LOW Date Received: 09/21/94

% Moisture: 15 decanted: (Y/N) N Date Extracted: 09/22/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/30/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q	
51-28-5	2,4-Dinitrophenol	940	U	
100-02-7	4-Nitrophenol	940	U	
132-64-9	Dibenzofuran	11	J	J
121-14-2	2,4-Dinitrotoluene	390	U	
84-66-2	Diethylphthalate	16	BJ	B
7005-72-3	4-Chlorophenyl-phenylether	390	U	
86-73-7	Fluorene	8	J	J
100-01-6	4-Nitroaniline	940	U	
534-52-1	4,6-Dinitro-2-Methylphenol	940	U	
86-30-6	N-Nitrosodiphenylamine (1)	390	U	
101-55-3	4-Bromophenyl-phenylether	390	U	
118-74-1	Hexachlorobenzene	390	U	
87-86-5	Pentachlorophenol	940	U	
85-01-8	Phenanthrene	240	J	J
120-12-7	Anthracene	59	J	J
86-74-8	Carbazole	28	J	J
84-74-2	Di-n-Butylphthalate	390	U	
206-44-0	Fluoranthene	960		
129-00-0	Pyrene	1800		
85-68-7	Butylbenzylphthalate	390	U	
91-94-1	3,3'-Dichlorobenzidine	390	U	
56-55-3	Benzo(a)Anthracene	740		
218-01-9	Chrysene	690		
117-81-7	Bis(2-Ethylhexyl)Phthalate	360	BJ	J
117-84-0	Di-n-Octyl Phthalate	390	U	
205-99-2	Benzo(b)Fluoranthene	1500		
207-08-9	Benzo(k)Fluoranthene	510		
50-32-8	Benzo(a)Pyrene	660		
193-39-5	Indeno(1,2,3-cd)Pyrene	550		
53-70-3	Dibenz(a,h)Anthracene	130	J	J
191-24-2	Benzo(g,h,i)Perylene	310	J	J

Sh.s 11/3/94

Review: M1 Level

1B SEMIVOLATILE ORGANICS AN

Location: KOPSB205/6-8

EPA SAMPLE NO.

0068
CNF18

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4500403

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 17990W

Level: (low/med) LOW Date Received: 09/21/94

% Moisture: 17 decanted: (Y/N) N Date Extracted: 09/22/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/30/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q	QV
108-95-2	Phenol	400	U	
111-44-4	bis(2-Chloroethyl)Ether	400	U	
95-57-8	2-Chlorophenol	400	U	
541-73-1	1,3-Dichlorobenzene	400	U	
106-46-7	1,4-Dichlorobenzene	400	U	
95-50-1	1,2-Dichlorobenzene	400	U	
95-48-7	2-Methylphenol	400	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	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	
111-91-1	bis(2-Chloroethoxy)Methane	400	U	
120-83-2	2,4-Dichlorophenol	400	U	
120-82-1	1,2,4-Trichlorobenzene	400	U	
91-20-3	Naphthalene	400	U	
106-47-8	4-Chloroaniline	400	U	
87-68-3	Hexachlorobutadiene	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	960	U	
91-58-7	2-Chloronaphthalene	400	U	
88-74-4	2-Nitroaniline	960	U	
131-11-3	Dimethyl Phthalate	400	U	
208-96-8	Acenaphthylene	400	U	
606-20-2	2,6-Dinitrotoluene	400	U	
99-09-2	3-Nitroaniline	960	U	
83-32-9	Acenaphthene	400	U	

AR305025

QV = QUALIFIER AFTER VALIDATION

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CNF18 069

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4500403

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 17990W

Level: (low/med) LOW Date Received: 09/21/94

% Moisture: 17 decanted: (Y/N) N Date Extracted: 09/22/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/30/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
51-28-5	2,4-Dinitrophenol	960	U	
100-02-7	4-Nitrophenol	960	U	
132-64-9	Dibenzofuran	400	U	
121-14-2	2,4-Dinitrotoluene	400	U	
84-66-2	Diethylphthalate	12	BJ	B
7005-72-3	4-Chlorophenyl-phenylether	400	U	
86-73-7	Fluorene	400	U	
100-01-6	4-Nitroaniline	960	U	
534-52-1	4,6-Dinitro-2-Methylphenol	960	U	
86-30-6	N-Nitrosodiphenylamine (1)	400	U	
101-55-3	4-Bromophenyl-phenylether	400	U	
118-74-1	Hexachlorobenzene	400	U	
87-86-5	Pentachlorophenol	960	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	11	BJ	B
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	62	BJ	B
117-84-0	Di-n-Octyl Phthalate	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	Dibenz(a,h)Anthracene	400	U	
191-24-2	Benzo(g,h,i)Perylene	400	U	

CON

SAS 11/3/94

AR305026

Review: M1 Level

SEMIVOLATILE ORGANICS 1B Location:KOPSB607/2-4

EPA SAMPLE NO.
0071
CNF20

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4500405

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 17991W

Level: (low/med) LOW Date Received: 09/21/94

% Moisture: 15 decanted: (Y/N) N Date Extracted: 09/22/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/30/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	QV
108-95-2	Phenol	390	U	
111-44-4	bis(2-Chloroethyl)Ether	390	U	
95-57-8	2-Chlorophenol	390	U	
541-73-1	1,3-Dichlorobenzene	390	U	
106-46-7	1,4-Dichlorobenzene	390	U	
95-50-1	1,2-Dichlorobenzene	390	U	
95-48-7	2-Methylphenol	390	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U	
106-44-5	4-Methylphenol	390	U	
621-64-7	N-Nitroso-Di-n-Propylamine	390	U	
67-72-1	Hexachloroethane	390	U	
98-95-3	Nitrobenzene	390	U	
78-59-1	Isophorone	390	U	
88-75-5	2-Nitrophenol	390	U	
105-67-9	2,4-Dimethylphenol	390	U	
111-91-1	bis(2-Chloroethoxy)Methane	390	U	
120-83-2	2,4-Dichlorophenol	390	U	
120-82-1	1,2,4-Trichlorobenzene	390	U	
91-20-3	Naphthalene	390	U	
106-47-8	4-Chloroaniline	390	U	
87-68-3	Hexachlorobutadiene	390	U	
59-50-7	4-Chloro-3-Methylphenol	390	U	
91-57-6	2-Methylnaphthalene	390	U	
77-47-4	Hexachlorocyclopentadiene	390	U	
88-06-2	2,4,6-Trichlorophenol	390	U	
95-95-4	2,4,5-Trichlorophenol	940	U	
91-58-7	2-Chloronaphthalene	390	U	
88-74-4	2-Nitroaniline	940	U	
131-11-3	Dimethyl Phthalate	390	U	
208-96-8	Acenaphthylene	390	U	
606-20-2	2,6-Dinitrotoluene	390	U	
99-09-2	3-Nitroaniline	940	U	
83-32-9	Acenaphthene	390	U	

AR305027

QV = QUALIFIER AFTER VALIDATION

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0072

CNF20

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4500405

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 17991W

Level: (low/med) LOW Date Received: 09/21/94

% Moisture: 15 decanted: (Y/N) N Date Extracted: 09/22/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/30/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q	
51-28-5	2,4-Dinitrophenol	940	U	
100-02-7	4-Nitrophenol	940	U	
132-64-9	Dibenzofuran	390	U	
121-14-2	2,4-Dinitrotoluene	390	U	
84-66-2	Diethylphthalate	8	BJ	B
7005-72-3	4-Chlorophenyl-phenylether	390	U	
86-73-7	Fluorene	390	U	
100-01-6	4-Nitroaniline	940	U	
534-52-1	4,6-Dinitro-2-Methylphenol	940	U	
86-30-6	N-Nitrosodiphenylamine (1)	390	U	
101-55-3	4-Bromophenyl-phenylether	390	U	
118-74-1	Hexachlorobenzene	390	U	
87-86-5	Pentachlorophenol	940	U	
85-01-8	Phenanthrene	12	J	J
120-12-7	Anthracene	5	J	J
86-74-8	Carbazole	390	U	
84-74-2	Di-n-Butylphthalate	10	BJ	B
206-44-0	Fluoranthene	79	J	J
129-00-0	Pyrene	150	J	J
85-68-7	Butylbenzylphthalate	390	U	
91-94-1	3,3'-Dichlorobenzidine	390	U	
56-55-3	Benzo(a)Anthracene	390	U	
218-01-9	Chrysene	81	J	J
117-81-7	Bis(2-Ethylhexyl)Phthalate	150	BJ	B
117-84-0	Di-n-Octyl Phthalate	390	U	
205-99-2	Benzo(b)Fluoranthene	140	J	J
207-08-9	Benzo(k)Fluoranthene	46	J	J
50-32-8	Benzo(a)Pyrene	50	J	J
193-39-5	Indeno(1,2,3-cd)Pyrene	47	J	J
53-70-3	Dibenz(a,h)Anthracene	8	J	J
191-24-2	Benzo(g,h,i)Perylene	30	J	J

QV

Sh.s 11/3/94

Review: M1 Level

1B
SEMIVOLATILE ORGANICS ANA

Location:KOPSB607/4-6

EPA SAMPLE NO.
0077

CNF21

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4500406

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 17992W

Level: (low/med) LOW Date Received: 09/21/94

% Moisture: 16 decanted: (Y/N) N Date Extracted: 09/22/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/30/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	QV
108-95-2	Phenol	390	U	
111-44-4	bis(2-Chloroethyl)Ether	390	U	
95-57-8	2-Chlorophenol	390	U	
541-73-1	1,3-Dichlorobenzene	390	U	
106-46-7	1,4-Dichlorobenzene	390	U	
95-50-1	1,2-Dichlorobenzene	390	U	
95-48-7	2-Methylphenol	390	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U	
106-44-5	4-Methylphenol	390	U	
621-64-7	N-Nitroso-Di-n-Propylamine	390	U	
67-72-1	Hexachloroethane	390	U	
98-95-3	Nitrobenzene	390	U	
78-59-1	Isophorone	390	U	
88-75-5	2-Nitrophenol	390	U	
105-67-9	2,4-Dimethylphenol	390	U	
111-91-1	bis(2-Chloroethoxy)Methane	390	U	
120-83-2	2,4-Dichlorophenol	390	U	
120-82-1	1,2,4-Trichlorobenzene	390	U	
91-20-3	Naphthalene	390	U	
106-47-8	4-Chloroaniline	390	U	
87-68-3	Hexachlorobutadiene	390	U	
59-50-7	4-Chloro-3-Methylphenol	390	U	
91-57-6	2-Methylnaphthalene	390	U	
77-47-4	Hexachlorocyclopentadiene	390	U	
88-06-2	2,4,6-Trichlorophenol	390	U	
95-95-4	2,4,5-Trichlorophenol	950	U	
91-58-7	2-Chloronaphthalene	390	U	
88-74-4	2-Nitroaniline	950	U	
131-11-3	Dimethyl Phthalate	390	U	
208-96-8	Acenaphthylene	390	U	
606-20-2	2,6-Dinitrotoluene	390	U	
99-09-2	3-Nitroaniline	950	U	
83-32-9	Acenaphthene	390	U	

QV = QUALIFIER AFTER VALIDATION

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

~~0078~~

CNF21

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4500406

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 17992W

Level: (low/med) LOW Date Received: 09/21/94

% Moisture: 16 decanted: (Y/N) N Date Extracted: 09/22/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/30/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	QV
51-28-5	2,4-Dinitrophenol	950	U	
100-02-7	4-Nitrophenol	950	U	
132-64-9	Dibenzofuran	390	U	
121-14-2	2,4-Dinitrotoluene	390	U	
84-66-2	Diethylphthalate	8	BJ	B
7005-72-3	4-Chlorophenyl-phenylether	390	U	
86-73-7	Fluorene	390	U	
100-01-6	4-Nitroaniline	950	U	
534-52-1	4,6-Dinitro-2-Methylphenol	950	U	
86-30-6	N-Nitrosodiphenylamine (1)	390	U	
101-55-3	4-Bromophenyl-phenylether	390	U	
118-74-1	Hexachlorobenzene	390	U	
87-86-5	Pentachlorophenol	950	U	
85-01-8	Phenanthrene	390	U	
120-12-7	Anthracene	390	U	
86-74-8	Carbazole	390	U	
84-74-2	Di-n-Butylphthalate	390	U	
206-44-0	Fluoranthene	42	J	J
129-00-0	Pyrene	61	J	J
85-68-7	Butylbenzylphthalate	390	U	
91-94-1	3,3'-Dichlorobenzidine	390	U	
56-55-3	Benzo(a)Anthracene	390	U	
218-01-9	Chrysene	30	J	J
117-81-7	Bis(2-Ethylhexyl)Phthalate	120	BJ	B
117-84-0	Di-n-Octyl Phthalate	390	U	
205-99-2	Benzo(b)Fluoranthene	27	J	J
207-08-9	Benzo(k)Fluoranthene	14	J	J
50-32-8	Benzo(a)Pyrene	12	J	J
193-39-5	Indeno(1,2,3-cd)Pyrene	7	J	J
53-70-3	Dibenz(a,h)Anthracene	390	U	
191-24-2	Benzo(g,h,i)Perylene	390	U	

Ds 11/3/94

AR305030

Review: M1 Level

SEMIVOLATILE ORGANICS 1B

Location: KOPSB124/8-10

EPA SAMPLE NO.
0083

CNF22

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4506803

Sample wt/vol: 30.7 (g/mL) G Lab File ID: 18237W

Level: (low/med) LOW Date Received: 09/23/94

% Moisture: 18 decanted: (Y/N) N Date Extracted: 09/26/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/18/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	QV
108-95-2	Phenol	390	U	
111-44-4	bis(2-Chloroethyl)Ether	390	U	
95-57-8	2-Chlorophenol	390	U	
541-73-1	1,3-Dichlorobenzene	390	U	
106-46-7	1,4-Dichlorobenzene	390	U	
95-50-1	1,2-Dichlorobenzene	390	U	
95-48-7	2-Methylphenol	390	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U	
106-44-5	4-Methylphenol	390	U	
621-64-7	N-Nitroso-Di-n-Propylamine	390	U	
67-72-1	Hexachloroethane	390	U	
98-95-3	Nitrobenzene	390	U	
78-59-1	Isophorone	390	U	
88-75-5	2-Nitrophenol	390	U	
105-67-9	2,4-Dimethylphenol	390	U	
111-91-1	bis(2-Chloroethoxy)Methane	390	U	
120-83-2	2,4-Dichlorophenol	390	U	
120-82-1	1,2,4-Trichlorobenzene	390	U	
91-20-3	Naphthalene	46	J	J
106-47-8	4-Chloroaniline	390	U	
87-68-3	Hexachlorobutadiene	390	U	
59-50-7	4-Chloro-3-Methylphenol	390	U	
91-57-6	2-Methylnaphthalene	12	J	J
77-47-4	Hexachlorocyclopentadiene	390	U	
88-06-2	2,4,6-Trichlorophenol	390	U	
95-95-4	2,4,5-Trichlorophenol	950	U	
91-58-7	2-Chloronaphthalene	390	U	
88-74-4	2-Nitroaniline	950	U	
131-11-3	Dimethyl Phthalate	390	U	
208-96-8	Acenaphthylene	47	J	J
606-20-2	2,6-Dinitrotoluene	390	U	
99-09-2	3-Nitroaniline	950	U	
83-32-9	Acenaphthene	2700		

QV = QUALIFIER AFTER VALIDATION

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
0084
CNF22

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4506803

Sample wt/vol: 30.7 (g/mL) G Lab File ID: 18237W

Level: (low/med) LOW Date Received: 09/23/94

% Moisture: 18 decanted: (Y/N) N Date Extracted: 09/26/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/18/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND			Q	QN
51-28-5	2,4-Dinitrophenol		950	U	
100-02-7	4-Nitrophenol		950	U	
132-64-9	Dibenzofuran		1700		
121-14-2	2,4-Dinitrotoluene		390	U	
84-66-2	Diethylphthalate		390	U	
7005-72-3	4-Chlorophenyl-phenylether		390	U	
86-73-7	Fluorene		1200		
100-01-6	4-Nitroaniline		950	U	
534-52-1	4,6-Dinitro-2-Methylphenol		950	U	
86-30-6	N-Nitrosodiphenylamine (1)		390	U	
101-55-3	4-Bromophenyl-phenylether		390	U	
118-74-1	Hexachlorobenzene		390	U	
87-86-5	Pentachlorophenol		950	U	
85-01-8	Phenanthrene	13000 *	~~7300~~	~~E~~	
120-12-7	Anthracene		700		
86-74-8	Carbazole		430		
84-74-2	Di-n-Butylphthalate		23	J	B
206-44-0	Fluoranthene	5700 *	~~3900~~	~~E~~	
129-00-0	Pyrene		3000		
85-68-7	Butylbenzylphthalate		390	U	
91-94-1	3,3'-Dichlorobenzidine		390	U	
56-55-3	Benzo(a)Anthracene		990		
218-01-9	Chrysene		630		
117-81-7	Bis(2-Ethylhexyl)Phthalate		78	BJ	B
117-84-0	Di-n-Octyl Phthalate		390	U	
205-99-2	Benzo(b)Fluoranthene		420		
207-08-9	Benzo(k)Fluoranthene		230	J	J
50-32-8	Benzo(a)Pyrene		230	J	J
193-39-5	Indeno(1,2,3-cd)Pyrene		80	J	J
53-70-3	Dibenz(a,h)Anthracene		23	J	J
191-24-2	Benzo(g,h,i)Perylene		69	J	J

* Reported from diluted analysis.

ks 11/3/94

Review: M1 Level

1B
SEMIVOLATILE ORGANICS AN

Location: KOPSB124/2-4

EPA SAMPLE NO.

0089
CNF23

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4506802

Sample wt/vol: 30.3 (g/mL) G Lab File ID: 18236W

Level: (low/med) LOW Date Received: 09/23/94

% Moisture: 15 decanted: (Y/N) N Date Extracted: 09/26/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/18/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	QV
108-95-2	Phenol	380	U	
111-44-4	bis(2-Chloroethyl)Ether	380	U	
95-57-8	2-Chlorophenol	380	U	
541-73-1	1,3-Dichlorobenzene	380	U	
106-46-7	1,4-Dichlorobenzene	380	U	
95-50-1	1,2-Dichlorobenzene	380	U	
95-48-7	2-Methylphenol	380	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U	
106-44-5	4-Methylphenol	380	U	
621-64-7	N-Nitroso-Di-n-Propylamine	380	U	
67-72-1	Hexachloroethane	380	U	
98-95-3	Nitrobenzene	380	U	
78-59-1	Isophorone	380	U	
88-75-5	2-Nitrophenol	380	U	
105-67-9	2,4-Dimethylphenol	380	U	
111-91-1	bis(2-Chloroethoxy)Methane	380	U	
120-83-2	2,4-Dichlorophenol	380	U	
120-82-1	1,2,4-Trichlorobenzene	380	U	
91-20-3	Naphthalene	1900		
106-47-8	4-Chloroaniline	380	U	
87-68-3	Hexachlorobutadiene	380	U	
59-50-7	4-Chloro-3-Methylphenol	380	U	
91-57-6	2-Methylnaphthalene	130	J	J
77-47-4	Hexachlorocyclopentadiene	380	U	
88-06-2	2,4,6-Trichlorophenol	380	U	
95-95-4	2,4,5-Trichlorophenol	930	U	
91-58-7	2-Chloronaphthalene	380	U	
88-74-4	2-Nitroaniline	930	U	
131-11-3	Dimethyl Phthalate	380	U	
208-96-8	Acenaphthylene	43	J	J
606-20-2	2,6-Dinitrotoluene	380	U	
99-09-2	3-Nitroaniline	930	U	
83-32-9	Acenaphthene	530		

QV = QUALIFIER AFTER VALIDATION

FORM I SV-1

AR305033

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
~~0090~~
CNF23

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4506802

Sample wt/vol: 30.3 (g/mL) G Lab File ID: 18236W

Level: (low/med) LOW Date Received: 09/23/94

% Moisture: 15 decanted: (Y/N) N Date Extracted: 09/26/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/18/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	QV
51-28-5	2,4-Dinitrophenol	930	U	
100-02-7	4-Nitrophenol	930	U	
132-64-9	Dibenzofuran	63	J	J
121-14-2	2,4-Dinitrotoluene	380	U	
84-66-2	Diethylphthalate	380	U	
7005-72-3	4-Chlorophenyl-phenylether	380	U	
86-73-7	Fluorene	50	J	J
100-01-6	4-Nitroaniline	930	U	
534-52-1	4,6-Dinitro-2-Methylphenol	930	U	
86-30-6	N-Nitrosodiphenylamine (1)	380	U	
101-55-3	4-Bromophenyl-phenylether	380	U	
118-74-1	Hexachlorobenzene	380	U	
87-86-5	Pentachlorophenol	930	U	
85-01-8	Phenanthrene	78	J	J
120-12-7	Anthracene	32	J	J
86-74-8	Carbazole	15	J	J
84-74-2	Di-n-Butylphthalate	17	J	B
206-44-0	Fluoranthene	380	J	J
129-00-0	Pyrene	390		
85-68-7	Butylbenzylphthalate	380	U	
91-94-1	3,3'-Dichlorobenzidine	380	U	
56-55-3	Benzo(a)Anthracene	370	J	J
218-01-9	Chrysene	460		
117-81-7	Bis(2-Ethylhexyl)Phthalate	110	BJ	B
117-84-0	Di-n-Octyl Phthalate	380	U	
205-99-2	Benzo(b)Fluoranthene	860		
207-08-9	Benzo(k)Fluoranthene	410		
50-32-8	Benzo(a)Pyrene	350	J	J
193-39-5	Indeno(1,2,3-cd)Pyrene	220	J	J
53-70-3	Dibenz(a,h)Anthracene	110	J	J
191-24-2	Benzo(g,h,i)Perylene	210	J	J

SK 11/3/94

AR305034

Review: M1 Level

1B
SEMIVOLATILE ORGANICS ANAI

Location: KOPSB602/2-4

EPA SAMPLE NO.
0092

CNF25

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4506804

Sample wt/vol: 30.9 (g/mL) G Lab File ID: 18233W

Level: (low/med) LOW Date Received: 09/23/94

% Moisture: 15 decanted: (Y/N) N Date Extracted: 09/26/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/18/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	QV
108-95-2	Phenol	380	U	
111-44-4	bis(2-Chloroethyl)Ether	380	U	
95-57-8	2-Chlorophenol	380	U	
541-73-1	1,3-Dichlorobenzene	380	U	
106-46-7	1,4-Dichlorobenzene	380	U	
95-50-1	1,2-Dichlorobenzene	380	U	
95-48-7	2-Methylphenol	380	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U	
106-44-5	4-Methylphenol	380	U	
621-64-7	N-Nitroso-Di-n-Propylamine	380	U	
67-72-1	Hexachloroethane	380	U	
98-95-3	Nitrobenzene	380	U	
78-59-1	Isophorone	380	U	
88-75-5	2-Nitrophenol	380	U	
105-67-9	2,4-Dimethylphenol	380	U	
111-91-1	bis(2-Chloroethoxy)Methane	380	U	
120-83-2	2,4-Dichlorophenol	380	U	
120-82-1	1,2,4-Trichlorobenzene	380	U	
91-20-3	Naphthalene	380	U	
106-47-8	4-Chloroaniline	380	U	
87-68-3	Hexachlorobutadiene	380	U	
59-50-7	4-Chloro-3-Methylphenol	380	U	
91-57-6	2-Methylnaphthalene	380	U	
77-47-4	Hexachlorocyclopentadiene	380	U	
88-06-2	2,4,6-Trichlorophenol	380	U	
95-95-4	2,4,5-Trichlorophenol	910	U	
91-58-7	2-Chloronaphthalene	380	U	
88-74-4	2-Nitroaniline	910	U	
131-11-3	Dimethyl Phthalate	380	U	
208-96-8	Acenaphthylene	380	U	
606-20-2	2,6-Dinitrotoluene	380	U	
99-09-2	3-Nitroaniline	910	U	
83-32-9	Acenaphthene	380	U	

QV = QUALIFIER AFTER VALIDATION

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
0093
CNF25

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4506804

Sample wt/vol: 30.9 (g/mL) G Lab File ID: 18233W

Level: (low/med) LOW Date Received: 09/23/94

% Moisture: 15 decanted: (Y/N) N Date Extracted: 09/26/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/18/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.6

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q	QV
51-28-5	2,4-Dinitrophenol	910	U	
100-02-7	4-Nitrophenol	910	U	
132-64-9	Dibenzofuran	380	U	
121-14-2	2,4-Dinitrotoluene	380	U	
84-66-2	Diethylphthalate	380	U	
7005-72-3	4-Chlorophenyl-phenylether	380	U	
86-73-7	Fluorene	380	U	
100-01-6	4-Nitroaniline	910	U	
534-52-1	4,6-Dinitro-2-Methylphenol	910	U	
86-30-6	N-Nitrosodiphenylamine (1)	380	U	
101-55-3	4-Bromophenyl-phenylether	380	U	
118-74-1	Hexachlorobenzene	380	U	
87-86-5	Pentachlorophenol	910	U	
85-01-8	Phenanthrene	380	U	
120-12-7	Anthracene	380	U	
86-74-8	Carbazole	380	U	
84-74-2	Di-n-Butylphthalate	15	J	B
206-44-0	Fluoranthene	380	U	
129-00-0	Pyrene	380	U	
85-68-7	Butylbenzylphthalate	380	U	
91-94-1	3,3'-Dichlorobenzidine	380	U	
56-55-3	Benzo(a)Anthracene	380	U	
218-01-9	Chrysene	380	U	
117-81-7	Bis(2-Ethylhexyl)Phthalate	270	BJ	J
117-84-0	Di-n-Octyl Phthalate	380	U	
205-99-2	Benzo(b)Fluoranthene	380	U	
207-08-9	Benzo(k)Fluoranthene	380	U	
50-32-8	Benzo(a)Pyrene	380	U	
193-39-5	Indeno(1,2,3-cd)Pyrene	380	U	
53-70-3	Dibenz(a,h)Anthracene	380	U	
191-24-2	Benzo(g,h,i)Perylene	380	U	

gk 5
11/3/94

Review: M1 Level

1B
SEMIVOLATILE ORGANICS AN

Location:KOPSB303/6-8

EPA SAMPLE NO.

0095
CNF28

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4506806

Sample wt/vol: 30.4 (g/mL) G Lab File ID: 18234W

Level: (low/med) LOW Date Received: 09/23/94

% Moisture: 17 decanted: (Y/N) N Date Extracted: 09/26/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/18/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.3

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	QV
108-95-2	Phenol	390	U	
111-44-4	bis(2-Chloroethyl)Ether	390	U	
95-57-8	2-Chlorophenol	390	U	
541-73-1	1,3-Dichlorobenzene	390	U	
106-46-7	1,4-Dichlorobenzene	390	U	
95-50-1	1,2-Dichlorobenzene	390	U	
95-48-7	2-Methylphenol	390	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U	
106-44-5	4-Methylphenol	390	U	
621-64-7	N-Nitroso-Di-n-Propylamine	390	U	
67-72-1	Hexachloroethane	390	U	
98-95-3	Nitrobenzene	390	U	
78-59-1	Isophorone	390	U	
88-75-5	2-Nitrophenol	390	U	
105-67-9	2,4-Dimethylphenol	390	U	
111-91-1	bis(2-Chloroethoxy)Methane	390	U	
120-83-2	2,4-Dichlorophenol	390	U	
120-82-1	1,2,4-Trichlorobenzene	390	U	
91-20-3	Naphthalene	390	U	
106-47-8	4-Chloroaniline	390	U	
87-68-3	Hexachlorobutadiene	390	U	
59-50-7	4-Chloro-3-Methylphenol	390	U	
91-57-6	2-Methylnaphthalene	390	U	
77-47-4	Hexachlorocyclopentadiene	390	U	
88-06-2	2,4,6-Trichlorophenol	390	U	
95-95-4	2,4,5-Trichlorophenol	950	U	
91-58-7	2-Chloronaphthalene	390	U	
88-74-4	2-Nitroaniline	950	U	
131-11-3	Dimethyl Phthalate	390	U	
208-96-8	Acenaphthylene	390	U	
606-20-2	2,6-Dinitrotoluene	390	U	
99-09-2	3-Nitroaniline	950	U	
83-32-9	Acenaphthene	14	J	J

QV = QUALIFIER AFTER VALIDATION

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
~~0096~~
CNF28

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4506806

Sample wt/vol: 30.4 (g/mL) G Lab File ID: 18234W

Level: (low/med) LOW Date Received: 09/23/94

% Moisture: 17 decanted: (Y/N) N Date Extracted: 09/26/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/18/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.3

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	QV
51-28-5	2,4-Dinitrophenol	950	U	
100-02-7	4-Nitrophenol	950	U	
132-64-9	Dibenzofuran	14	J	J
121-14-2	2,4-Dinitrotoluene	390	U	
84-66-2	Diethylphthalate	390	U	
7005-72-3	4-Chlorophenyl-phenylether	390	U	
86-73-7	Fluorene	22	J	J
100-01-6	4-Nitroaniline	950	U	
534-52-1	4,6-Dinitro-2-Methylphenol	950	U	
86-30-6	N-Nitrosodiphenylamine (1)	390	U	
101-55-3	4-Bromophenyl-phenylether	390	U	
118-74-1	Hexachlorobenzene	390	U	
87-86-5	Pentachlorophenol	950	U	
85-01-8	Phenanthrene	160	J	J
120-12-7	Anthracene	16	J	J
86-74-8	Carbazole	10	J	J
84-74-2	Di-n-Butylphthalate	15	J	B
206-44-0	Fluoranthene	150	J	J
129-00-0	Pyrene	140	J	J
85-68-7	Butylbenzylphthalate	390	U	
91-94-1	3,3'-Dichlorobenzidine	390	U	
56-55-3	Benzo(a)Anthracene	58	J	J
218-01-9	Chrysene	69	J	J
117-81-7	Bis(2-Ethylhexyl)Phthalate	440	B	
117-84-0	Di-n-Octyl Phthalate	390	U	
205-99-2	Benzo(b)Fluoranthene	59	J	J
207-08-9	Benzo(k)Fluoranthene	28	J	J
50-32-8	Benzo(a)Pyrene	32	J	J
193-39-5	Indeno(1,2,3-cd)Pyrene	17	J	J
53-70-3	Dibenz(a,h)Anthracene	390	U	
191-24-2	Benzo(g,h,i)Perylene	17	J	J

SAS 11/3/94

AR305038

Review: M1 Level

SEMIVOLATILE ORGANICS 1B AN

Location: KOPSB303/8-10

EPA SAMPLE NO.

0098

CNF29

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4506807

Sample wt/vol: 30.3 (g/mL) G Lab File ID: 18235W

Level: (low/med) LOW Date Received: 09/23/94

% Moisture: 20 decanted: (Y/N) N Date Extracted: 09/26/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/18/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.1

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q	QV
108-95-2	Phenol	410	U	
111-44-4	bis(2-Chloroethyl)Ether	410	U	
95-57-8	2-Chlorophenol	410	U	
541-73-1	1,3-Dichlorobenzene	410	U	
106-46-7	1,4-Dichlorobenzene	410	U	
95-50-1	1,2-Dichlorobenzene	410	U	
95-48-7	2-Methylphenol	410	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	410	U	
106-44-5	4-Methylphenol	410	U	
621-64-7	N-Nitroso-Di-n-Propylamine	410	U	
67-72-1	Hexachloroethane	410	U	
98-95-3	Nitrobenzene	410	U	
78-59-1	Isophorone	410	U	
88-75-5	2-Nitrophenol	410	U	
105-67-9	2,4-Dimethylphenol	410	U	
111-91-1	bis(2-Chloroethoxy)Methane	410	U	
120-83-2	2,4-Dichlorophenol	410	U	
120-82-1	1,2,4-Trichlorobenzene	410	U	
91-20-3	Naphthalene	410	U	
106-47-8	4-Chloroaniline	410	U	
87-68-3	Hexachlorobutadiene	410	U	
59-50-7	4-Chloro-3-Methylphenol	410	U	
91-57-6	2-Methylnaphthalene	410	U	
77-47-4	Hexachlorocyclopentadiene	410	U	
88-06-2	2,4,6-Trichlorophenol	410	U	
95-95-4	2,4,5-Trichlorophenol	990	U	
91-58-7	2-Chloronaphthalene	410	U	
88-74-4	2-Nitroaniline	990	U	
131-11-3	Dimethyl Phthalate	410	U	
208-96-8	Acenaphthylene	410	U	
606-20-2	2,6-Dinitrotoluene	410	U	
99-09-2	3-Nitroaniline	990	U	
83-32-9	Acenaphthene	410	U	

AR305039

QV = QUALIFIER AFTER VALIDATION

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0099

CNF29

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4506807

Sample wt/vol: 30.3 (g/mL) G Lab File ID: 18235W

Level: (low/med) LOW Date Received: 09/23/94

% Moisture: 20 decanted: (Y/N) N Date Extracted: 09/26/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/18/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.1

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q	QV
51-28-5	2,4-Dinitrophenol	990	U	
100-02-7	4-Nitrophenol	990	U	
132-64-9	Dibenzofuran	410	U	
121-14-2	2,4-Dinitrotoluene	410	U	
84-66-2	Diethylphthalate	410	U	
7005-72-3	4-Chlorophenyl-phenylether	410	U	
86-73-7	Fluorene	410	U	
100-01-6	4-Nitroaniline	990	U	
534-52-1	4,6-Dinitro-2-Methylphenol	990	U	
86-30-6	N-Nitrosodiphenylamine (1)	410	U	
101-55-3	4-Bromophenyl-phenylether	410	U	
118-74-1	Hexachlorobenzene	410	U	
87-86-5	Pentachlorophenol	990	U	
85-01-8	Phenanthrene	24	J	J
120-12-7	Anthracene	410	U	
86-74-8	Carbazole	410	U	
84-74-2	Di-n-Butylphthalate	25	J	B
206-44-0	Fluoranthene	20	J	J
129-00-0	Pyrene	410	U	
85-68-7	Butylbenzylphthalate	410	U	
91-94-1	3,3'-Dichlorobenzidine	410	U	
56-55-3	Benzo(a)Anthracene	410	U	
218-01-9	Chrysene	410	U	
117-81-7	Bis(2-Ethylhexyl)Phthalate	410	B	
117-84-0	Di-n-Octyl Phthalate	410	U	
205-99-2	Benzo(b)Fluoranthene	410	U	
207-08-9	Benzo(k)Fluoranthene	410	U	
50-32-8	Benzo(a)Pyrene	410	U	
193-39-5	Indeno(1,2,3-cd)Pyrene	410	U	
53-70-3	Dibenz(a,h)Anthracene	410	U	
191-24-2	Benzo(g,h,i)Perylene	410	U	

Sh.s 11/3/94

Review: M1 Level

1B
SEMIVOLATILE ORGANICS AN

Location:KOPSB128/2-4

EPA SAMPLE NO.
0101

CNF32

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4508202

Sample wt/vol: 30.8 (g/mL) G Lab File ID: 17953W

Level: (low/med) LOW Date Received: 09/24/94

% Moisture: 20 decanted: (Y/N) N Date Extracted: 09/27/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/28/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	QV
108-95-2	Phenol	400	U	
111-44-4	bis(2-Chloroethyl)Ether	400	U	
95-57-8	2-Chlorophenol	400	U	
541-73-1	1,3-Dichlorobenzene	400	U	
106-46-7	1,4-Dichlorobenzene	400	U	
95-50-1	1,2-Dichlorobenzene	400	U	
95-48-7	2-Methylphenol	400	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	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	
111-91-1	bis(2-Chloroethoxy)Methane	400	U	
120-83-2	2,4-Dichlorophenol	400	U	
120-82-1	1,2,4-Trichlorobenzene	400	U	
91-20-3	Naphthalene	15	J	J
106-47-8	4-Chloroaniline	400	U	
87-68-3	Hexachlorobutadiene	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	970	U	
91-58-7	2-Chloronaphthalene	400	U	
88-74-4	2-Nitroaniline	970	U	
131-11-3	Dimethyl Phthalate	400	U	
208-96-8	Acenaphthylene	28	J	J
606-20-2	2,6-Dinitrotoluene	400	U	
99-09-2	3-Nitroaniline	970	U	
83-32-9	Acenaphthene	400	U	

Shs 11/3/94

QV = QUALIFIER AFTER VALIDATION

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

~~0102~~

CNF32

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4508202

Sample wt/vol: 30.8 (g/mL) G Lab File ID: 17953W

Level: (low/med) LOW Date Received: 09/24/94

% Moisture: 20 decanted: (Y/N) N Date Extracted: 09/27/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/28/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q	QV
51-28-5	2,4-Dinitrophenol	970	U	
100-02-7	4-Nitrophenol	970	U	
132-64-9	Dibenzofuran	8	J	J
121-14-2	2,4-Dinitrotoluene	400	U	
84-66-2	Diethylphthalate	400	U	
7005-72-3	4-Chlorophenyl-phenylether	400	U	
86-73-7	Fluorene	400	U	
100-01-6	4-Nitroaniline	970	U	
534-52-1	4,6-Dinitro-2-Methylphenol	970	U	
86-30-6	N-Nitrosodiphenylamine (1)	400	U	
101-55-3	4-Bromophenyl-phenylether	400	U	
118-74-1	Hexachlorobenzene	400	U	
87-86-5	Pentachlorophenol	970	U	
85-01-8	Phenanthrene	86	J	J
120-12-7	Anthracene	20	J	J
86-74-8	Carbazole	12	J	J
84-74-2	Di-n-Butylphthalate	400	U	
206-44-0	Fluoranthene	420		
129-00-0	Pyrene	350	J	J
85-68-7	Butylbenzylphthalate	400	U	
91-94-1	3,3'-Dichlorobenzidine	400	U	
56-55-3	Benzo(a)Anthracene	230	J	J
218-01-9	Chrysene	280	J	J
117-81-7	Bis(2-Ethylhexyl)Phthalate	360	BJ	J
117-84-0	Di-n-Octyl Phthalate	400	U	
205-99-2	Benzo(b)Fluoranthene	470		
207-08-9	Benzo(k)Fluoranthene	170	J	J
50-32-8	Benzo(a)Pyrene	230	J	J
193-39-5	Indeno(1,2,3-cd)Pyrene	200	J	J
53-70-3	Dibenz(a,h)Anthracene	47	J	J
191-24-2	Benzo(g,h,i)Perylene	160	J	J

11/3/94

AR305042

Review: M1 Level

1B
SEMIVOLATILE ORGANICS ANA

Location:KOPSB128/6-8

EPA SAMPLE NO.
0104
CNF33

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4508203

Sample wt/vol: 30.8 (g/mL) G Lab File ID: 17954W

Level: (low/med) LOW Date Received: 09/24/94

% Moisture: 16 decanted: (Y/N) N Date Extracted: 09/27/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/28/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	QV
108-95-2	Phenol	380	U	
111-44-4	bis(2-Chloroethyl)Ether	380	U	
95-57-8	2-Chlorophenol	380	U	
541-73-1	1,3-Dichlorobenzene	380	U	
106-46-7	1,4-Dichlorobenzene	380	U	
95-50-1	1,2-Dichlorobenzene	380	U	
95-48-7	2-Methylphenol	380	U	
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U	
106-44-5	4-Methylphenol	380	U	
621-64-7	N-Nitroso-Di-n-Propylamine	380	U	
67-72-1	Hexachloroethane	380	U	
98-95-3	Nitrobenzene	380	U	
78-59-1	Isophorone	380	U	
88-75-5	2-Nitrophenol	380	U	
105-67-9	2,4-Dimethylphenol	380	U	
111-91-1	bis(2-Chloroethoxy)Methane	380	U	
120-83-2	2,4-Dichlorophenol	380	U	
120-82-1	1,2,4-Trichlorobenzene	380	U	
91-20-3	Naphthalene	380	U	
106-47-8	4-Chloroaniline	380	U	
87-68-3	Hexachlorobutadiene	380	U	
59-50-7	4-Chloro-3-Methylphenol	380	U	
91-57-6	2-Methylnaphthalene	380	U	
77-47-4	Hexachlorocyclopentadiene	380	U	
88-06-2	2,4,6-Trichlorophenol	380	U	
95-95-4	2,4,5-Trichlorophenol	930	U	
91-58-7	2-Chloronaphthalene	380	U	
88-74-4	2-Nitroaniline	930	U	
131-11-3	Dimethyl Phthalate	380	U	
208-96-8	Acenaphthylene	380	U	
606-20-2	2,6-Dinitrotoluene	380	U	
99-09-2	3-Nitroaniline	930	U	
83-32-9	Acenaphthene	380	U	

QV = QUALIFIER AFTER VALIDATION

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0105

CNF33

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4508203

Sample wt/vol: 30.8 (g/mL) G Lab File ID: 17954W

Level: (low/med) LOW Date Received: 09/24/94

% Moisture: 16 decanted: (Y/N) N Date Extracted: 09/27/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/28/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.4

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q	
51-28-5	2,4-Dinitrophenol	930	U	
100-02-7	4-Nitrophenol	930	U	
132-64-9	Dibenzofuran	380	U	
121-14-2	2,4-Dinitrotoluene	380	U	
84-66-2	Diethylphthalate	380	U	
7005-72-3	4-Chlorophenyl-phenylether	380	U	
86-73-7	Fluorene	380	U	
100-01-6	4-Nitroaniline	930	U	
534-52-1	4,6-Dinitro-2-Methylphenol	930	U	
86-30-6	N-Nitrosodiphenylamine (1)	380	U	
101-55-3	4-Bromophenyl-phenylether	380	U	
118-74-1	Hexachlorobenzene	380	U	
87-86-5	Pentachlorophenol	930	U	
85-01-8	Phenanthrene	380	U	
120-12-7	Anthracene	380	U	
86-74-8	Carbazole	380	U	
84-74-2	Di-n-Butylphthalate	19	J	B
206-44-0	Fluoranthene	380	U	
129-00-0	Pyrene	380	U	
85-68-7	Butylbenzylphthalate	380	U	
91-94-1	3,3'-Dichlorobenzidine	380	U	
56-55-3	Benzo(a)Anthracene	380	U	
218-01-9	Chrysene	380	U	
117-81-7	Bis(2-Ethylhexyl)Phthalate	62	BJ	B
117-84-0	Di-n-Octyl Phthalate	380	U	
205-99-2	Benzo(b)Fluoranthene	380	U	
207-08-9	Benzo(k)Fluoranthene	380	U	
50-32-8	Benzo(a)Pyrene	380	U	
193-39-5	Indeno(1,2,3-cd)Pyrene	380	U	
53-70-3	Dibenz(a,h)Anthracene	380	U	
191-24-2	Benzo(g,h,i)Perylene	380	U	

CQV

SL 11/13/94

AR305044

Review: M1 Level

1D
PESTICIDE ORGANICS ANALY

Location:KOPSB602/2-4

EPA SAMPLE NO.

0107
CNF25

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4506804

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

% Moisture: 15 decanted: (Y/N) N Date Received: 09/23/94

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/26/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/13/94

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 5.0 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q	QV
319-84-6	alpha-BHC	2.0	U	
319-85-7	beta-BHC	2.0	U	
319-86-8	delta-BHC	2.0	U	
58-89-9	gamma-BHC (Lindane)	2.0	U	
76-44-8	Heptachlor	2.0	U	
309-00-2	Aldrin	2.0	U	
1024-57-3	Heptachlor epoxide	2.0	U	
959-98-8	Endosulfan I	2.0	U	
60-57-1	Dieldrin	3.9	U	
72-55-9	4,4'-DDE	3.9	U	
72-20-8	Endrin	3.9	U	
33213-65-9	Endosulfan II	3.9	U	
72-54-8	4,4'-DDD	3.9	U	
1031-07-8	Endosulfan sulfate	3.9	U	
50-29-3	4,4'-DDT	3.9	U	
72-43-5	Methoxychlor	20	U	
53494-70-5	Endrin ketone	3.9	U	
7421-93-4	Endrin aldehyde	3.9	U	
5103-71-9	alpha-Chlordane	2.0	U	
5103-74-2	gamma-Chlordane	2.0	U	
8001-35-2	Toxaphene	200	U	
12674-11-2	Aroclor-1016	39	U	
11104-28-2	Aroclor-1221	79	U	
11141-16-5	Aroclor-1232	39	U	
53469-21-9	Aroclor-1242	39	U	
12672-29-6	Aroclor-1248	39	U	
11097-69-1	Aroclor-1254	39	U	
11096-82-5	Aroclor-1260	39	U	

QV = QUALIFIER AFTER VALIDATION

Appendix C

Support Documentation

SDG NARRATIVE

Laboratory Name: Recra Environmental, Inc.

Laboratory Code: RECNY

Case Number: 22655

SDG Number: CKS97

Contract Number: 68-D2-0027

Sample Identification:

CKS97
CKS98
CKS99
CNF11
CNF12
CNF13
CNF14
CNF14 MATRIX SPIKE
CNF14 MATRIX SPIKE DUPLICATE
CNF15
CNF17
CNF18
CNF20
CNF21
CNF22
CNF23
CNF25
CNF28
CNF29
CNF32
CNF33

METHODOLOGY

Analyses were performed in accordance with United States Environmental Protection Agency March 1990 Statement of Work.

COMMENTS

Comments pertain to data on one or all pages of this report.

The enclosed results have been reported utilizing data qualifiers (Q) as defined on the Organic Data Comment Page.

All original data possibly common to several Sample Delivery Groups is kept on file by our laboratory. This includes continuing calibration, BFB, DFTPP and method blank data. Copies of these data are submitted in this data package.

Results of the analyses of soil samples have been corrected for moisture content and are reported on a dry weight basis.

All soil samples underwent GPC cleanup prior to analyses for semivolatile and Pesticide/PCB constituents. The elevated detection limits are the result of a dilution factor of two (2) inherent in GPC cleanup.

VOLATILE DATA

Volatile sample and standard areas are listed on the corresponding data system printouts.

Volatile data was processed utilizing Finnigan Autoquantitation and QA Formaster software. All compounds determined to be present by the computer-generated autoquantitation were subjected to a manual ion search for secondary and tertiary ions. False positive compounds are crossed out, initialed and dated in this data package.

Ortho-Xylene and meta & para-Xylene elute separately on a capillary column. They are reported in this data package as Total Xylenes. The concentration is calculated by adding the areas of ortho-Xylene and meta & para-Xylene and using only the response factor form ortho-Xylene to calculate the nanogram amount.

Methylene Chloride and Carbon Disulfide coelute on the capillary column used for analysis. When both compounds are present, mixed spectra are observed.

Internal standard and surrogate peaks on all RIC's are labelled with a number corresponding to the compound on the quantitation report.

Samples CKS97 and CNF15 both exhibited a pH of approximately 1.

Sample CNF15 exhibited the surrogate recovery for 1,2-Dichloroethane as above Quality Control Limits. The Limits are 76% - 114% and the recovery was 115%, therefore the laboratory compared this tripblank's recovery with the soil QC Limits and not the water limits. This sample was not re-analyzed.

The Relative Percent Difference for the following compounds were outside QC Limits: 1,1-Dichloroethene, Benzene, Toluene and Chlorobenzene.

Several Tripblanks appear to be tap water and not volatile free water, therefore, there are positive hits in the tripblanks. This was brought to the attention of Sample Management Office and the Region and copies of the telephone conversation logs are in the Case File Purge.

SEMIVOLATILE DATA

Semivolatile sample and standard areas are listed on the corresponding data system printouts.

Semivolatile data was processed utilizing Finnigan Autoquantitation and QA Formaster software. All compounds determined to be present by the computer-generated autoquantitation were subjected to a manual ion search for secondary and tertiary ions. False positive compounds are crossed out, initialed and dated on the quantitation reports in this analytical data package.

The initials "NL" or "NLF" on the quantitation reports stand for "not looked for". The compound is not reported.

Sample CNF14 Matrix Spike exhibits the spike recovery for Pyrene as above QC Limits. Sample CNF14 Matrix Spike Duplicate exhibits the spike recovery for Pentachlorophenol as outside QC Limits. The Relative Percent Difference for Pentachlorophenol is outside Quality Control Limits.

Sample CNF20 exhibited the Internal Standard Chrysene as outside limits, therefore, a re-analysis was required and CNF20RE exhibited Internal Standards Chrysene and Perylene as outside Limits.

Sample CNF21 exhibited the Internal Standard Chrysene as outside limits, therefore, a re-analysis was required and CNF21RE exhibited Internal Standards Chrysene and Perylene as outside Limits.

Samples CNF14, CNF14 Matrix Spike and CNF14 Matrix Spike Duplicate all exhibit Internal Standard Perylene as outside QC Limits.

Samples CKS98 and SBLK45 were inadvertently spiked with 80 NG of Internal Standard instead of the required 40 NG. As a result it appears that Internal Standard Phenanthrene is out in sample CKS98 and Internal Standards Phenanthrene and Chrysene are out in SBLK45. The Internal Standard recoveries for these samples are compliant.

Sample CNF22 required a dilution of four (4) due to the high concentrations of Phenanthrene and Fluoranthene.

Semivolatile Method Blank, SBLK45, exhibits the presence of eighteen (18) tentatively identified compounds (TIC's).

Semivolatile Method Blank, SBLK31, exhibits the presence of three (3) tentatively identified compounds (TIC's).

Semivolatile Method Blank, SBLK52, exhibits the presence of one (1) tentatively identified compound (TIC).

Semivolatile Method Blank, SBLK27, exhibits the presence of two (2) tentatively identified compounds (TIC's).

PESTICIDE/PCB DATA

The Relative Percent Difference is non-compliant on the DB608 column for methoxychlor in INDAM03 analyzed 10/13/94 at 02:51 and in INDAM05 analyzed 10/14/94 at 23:39. The Relative Percent Difference is non-compliant on the DB1701 column for 4,4'-DDT in PEM05 analyzed 10/13/94 at 14:28.

The retention times fell outside the established windows on the DB1701 column for beta-BHC in INDBM04 analyzed 10/14/94 at 02:10 and in PEM06 analyzed 10/14/94 at 12:24; beta-BHC, endosulfan sulfate, endrin ketone in INDBM06 analyzed 10/18/94 at 04:34.

"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 floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Kenneth E. Kasperek
Laboratory Director

10/27/94
Date

RECRA ENVIRONMENTAL INC.

SDG NARRATIVE

Laboratory Name: Recra Environmental, Inc.

Laboratory Code: RECNY

Case Number: 22655

SDG Number: CNF16

Contract Number: 68-D2-0027

Sample Identification: CNF16
CNF19
CNF24
CNF27
CNF30

METHODOLOGY

Analyses were performed in accordance with United States Environmental Protection Agency March 1990 Statement of Work.

COMMENTS

Comments pertain to data on one or all pages of this report.

The enclosed results have been reported utilizing data qualifiers (Q) as defined on the Organic Data Comment Page.

All original data possibly common to several Sample Delivery Groups is kept on file by our laboratory. This includes continuing calibration, BFB, DFTPP and method blank data. Copies of these data are submitted in this data package.

VOLATILE DATA

Volatile sample and standard areas are listed on the corresponding data system printouts.

Volatile data was processed utilizing Finnigan Autoquantitation and QA Formaster software. All compounds determined to be present by the computer-generated autoquantitation were subjected to a manual ion search for secondary and tertiary ions. False positive compounds are crossed out, initialed and dated in this data package.

Ortho-Xylene and meta & para-Xylene elute separately on a capillary column. They are reported in this data package as Total Xylenes. The concentration is calculated by adding the areas of ortho-Xylene and meta & para-Xylene and using only the response factor form ortho-Xylene to calculate the nanogram amount.

Methylene Chloride and Carbon Disulfide coelute on the capillary column used for analysis. When both compounds are present, mixed spectra are observed.

Internal standard and surrogate peaks on all RIC's are labelled with a number corresponding to the compound on the quantitation report.

All the Tripblanks appear to be tap water and not volatile free water, therefore, there are positive hits in the tripblanks. This was brought to the attention of Sample Management Office and the Region and copies of the telephone conversation logs are in the Case File Purge.

"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 floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

K E Kasperek

Kenneth E. Kasperek
Laboratory Director

10/27/94
Date

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

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

SAS No. (if applicable):
Case No.: 2265

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

2. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaHSO4 4. H_2SO_4 5. Other (Specify) 6. Ice only N. Not preserved

3. Region No.: III
Sampling Co.: Tetra Tech
5. Date Shipped: 9-15-94
Carrier: Fed Ex
7. Date Received -- Received by: 9-16-94
Sampler (Name): David G. Neidig
Airbill Number: 1973698974
Laboratory Contract Number:
Unit Price:
Sampler Signature:
6. Ship To: RECRA Environmental Inc
10 Hazelwood Drive
Amherst, NY 14228
716-691-2600
ATTN: Sample Custodian
8. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

4. Type of Activity: SF, PRP, ST, FED; Lead; Pre-Remedial: PA, SSI, LSI; Remedial: RIFS, RD, RA, O&M, NPLD; Removal: CLEM, REMA, REM, OIL, UST

CLP Sample Numbers (from labels)	A Enter # From Box 1	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative from Box 6	E RAS Analysis: VOA	BNA	Pest/PCB	High ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No.	K Sample Condition on Rec't	L High Conc. Phases (Check below): Solids	Water - Ms Liq.	Non Water - Ms Liq.
CKS97	4	L	G	1	X				3-125 87781 thru 3-125 87783	KOPTB08	9/14/94 1125	DEN	MCND16				
CKS98	5	L	C/G	6	X	X			3-125 87784 thru 3-125 87786	KOPSB216/4-6	9/14/94 1310	DEN	MCND16				
CKS99	5	L	C/G	6	X	X			3-125 87788 thru 3-125 87790	KOPSB216/2-4	9/14/94 1300	DEN	MCND17				
CNF11	5	L	C/G	6	X	X			3-125 87793 thru 3-125 87795	KOPSB609/4-6	9/14/94 1540	DEN	MCND18				
CNF12	5	L	C/G	6	X	X			3-125 87796 thru 3-125 87798	KOPSB609/6-8	9/14/94 1545	DEN	MCND19				
CNF14	5	L	C/G	6	X	X			3-115 3740 thru 3-115 3744	KOPSB203/6-8	9/15/94 1440	DEN	MCND21				
CNF13	5	L	C/G	6	X	X			3-115 330 thru 3-115 332	KOPSB203/4-6	9/15/94 1110	DEN	MCND20				
CNF15	4	L	G	1	X				3-115 3747 thru 3-115 3749	KOPTB09	9/15/94 0940	DEN	—				

Shipment for Case complete? (Y/N): Y
Page 1 of 1
Sample used for a spike and/or duplicate: CNF14
Additional Sampler Signatures:
Chain of Custody Seal Number:

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
David G. Neidig	9/15/94 1700				
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	
			9-16-94 1030	Cooler = 4°C	9-16

Split Samples: ☐ Accepted (Signature) ☐ Declined NA

EPA Form 8110-2 (Rev. 5-91) Replaces EPA Form (2075-7), previous edition which may be used

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

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS

AR305053

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Org-2

AR305054

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

EPA — United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

SAS No. (if applicable):
Case No.: 22655

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

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H_2SO_4
5. Other (Specify)
6. Ice only
N. Not preserved

3. Region No.: III
Sampling Co.: Tetra Tech
Sampler (Name): David E. Neidigh
Sampler Signature: [signature]

4. Type of Activity
Lead: SF, PRP, ST, FED
Pre-Remedial: PA, SSI, LSI
Remedial: RIFS, RD, RA, O&M, NPLD
Removal: CLEM, REMA, REM, OIL, UST

5. Date Shipped: 9/20/94
Carrier: Fed Ex
Airbill Number: 1973699022

6. Ship To: RECRA Environmental Inc.
10 Hazelwood Drive
Amherst NY 14225
(716) 691-2600
ATTN: Sample Custodian

7. Date Received -- Received by: 9/21/94 [signature]
Laboratory Contract Number
Unit Price
8. Transfer to
Date Received
Received by
Contract Number
Price

CLP Sample Numbers (from labels)	A Enter # From Box 1	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative from Box 6	E RAS Analysis: VOA	BNA	Pest/PCB	High ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No.	K Sample Condition on Rec'd	L High Conc. Phases (Check below): Solids	Water – Mis Liq.	Non Water – Mis Liq.
									3-118 2679 thru 3-118 2681	KOP1B10	9/19/94 0950	DEN	—				
CNF16	4	L	G	1	X				3-118 2682 thru 3-118 2684	KOPSB205/0-2	9/19/94 1050	DEN	MCND22				
CNF17	5	L	G	6	X	X			3-118 2685 thru 3-118 2687	KOPSB205/6-6	9/19/94 1440	DEN	MCND23				
CNF18	5	L	G	6	X	X			3-118 2688 thru 3-118 2690	KOPTB11	9/20/94 0815	DEN	—				
CNF19	4	L	G	1	X				3-118 2691 thru 3-118 2693	KOPSB607/2-4	9/20/94 0828	DEN	MCND24				
CNF20	5	L	G	6	X	X			3-118 2694 thru 3-118 2697	KOPSB607/4-6	9/20/94 0832	DEN	MCND25				
CNF21	5	L	G	6	X	X											

Shipment for Case complete? (Y/N): Y
Page 1 of 1
Sample used for a spike and/or duplicate
Additional Sampler Signatures
Chain of Custody Seal Number

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	9/20/94 1600				
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
		[signature]	9/21/94 1000	coolers = 3°C	[signature] 9/21

Split Samples: ☐ Accepted ☐ Declined
(Signature): NA

Previous EPA Form (2075-7), previous edition which ma... used

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

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

SAS No. (if applicable):
Case No.: 2265

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

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NaHSO4
   4. H_2SO_4
   5. Other (Specify)
   6. Ice only
   N. Not preserved

3. Region No.: III
Sampling Co.: Tetra Tech
Sampler (Name): David E. Neidigh
Sampler Signature: [signature]
4. Type of Activity: Lead / Pre-Remedial / Remedial / Removal
   SF, PRP, ST, FED; PA, SSI, LSI; RIFS, RD, RA, O&M, NPLD; CLEM, REMA, REM, OIL, UST
5. Date Shipped: 9/22/94
Carrier: FED EX
Airbill Number: 1973699092
6. Ship To: RECRA Environmental Inc. 10 Hazelwood Drive Amherst NY 14228 (716) 691-2600
ATTN: Sample Custodian
7. Date Received -- Received by: 9/23/94 [signature]
Laboratory Contract Number: 4590
Unit Price
8. Transfer to
Date Received
Received by
Contract Number
Price

CLP Sample Numbers (from labels)	A Enter # From Box 1	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative from Box 6	E RAS Analysis: VOA	BNA	Pest/PCB	High ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No.	K Sample Condition on Rec't	L High Conc. Phases (Check below): Solids	Water - Mix Liq.	Non Water - Mix Liq.
CNF24	4	L	G	1	X				3-115-4310 thru 3-115-4312	KOPTB12	9/21/94 0635	DEN	–				
CNF23	5	L	G	6	X	X			3-115-4306 thru 3-115-4308	KOPSB124/2-4	9/21/94 1110	DEN	MCND27				
CNF22	5	L	G	6	X	X			3-115-4302 thru 3-115-4304	KOPSB124/8-10	9/21/94 1200	DEN	MCND26				
CNF25	5	L	G	6	X	X	X		3-115-4316 thru 3-115-4321	KOPSB602/2-4	9/21/94 1359	DEN	MCND28				
CNF27	4	L	G	1	X				3-115-4323 thru 3-115-4325	~~KOPSB~~ KOPTB13	9/22/94 0915	DEN	–				
CNF28	5	L	G	6	X	X			3-115-4326 thru 3-115-4328	KOPSB303/6-8	9/22/94 1035	DEN	MCND30				
CNF29	5	L	G	6	X	X			3-115-4330 thru 3-115-4332	KOPSB303/8-10	9/22/94 1050	DEN	MCND31				
											Cooler Temp =		2°C				

Shipment for Case complete? (Y/N): Y
Page 1 of 1
Sample used for a spike and/or duplicate
Additional Sampler Signatures
Chain of Custody Seal Number

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	9/22/94 1600				
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	
		[signature]	9/23/94 1030		

Split Samples: ☐ Accepted ☐ Declined (Signature): NA

EPA Form 9110-2 (Rev. 5-91) Replaces EPA Form (2075-7), previous edition which may be used

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

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS

AR305055

0176

EPA

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Organic Traffic Report & Chain of Custody Record

(For Organic CLP Analysis)

SAS No. (if applicable):

Case No.: 22655

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

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NaHSO4
   4. H_2SO_4
   5. Other (Specify)
   6. Ice only
   N. Not preserved

3. Region No.: III

Sampling Co.: Tetratech

Sampler (Name): David E. Nordigh

Sampler Signature: [signature]

4. Type of Activity: Lead / Pre-Remedial / Remedial / Removal
   SF, PRP, ST, FED; PA, SSI, LSI; RIFS, RD, RA, O&M, NPLD; CLEM, REMA, REM, OIL, UST

5. Date Shipped: 9/23/94

Carrier: Fed EX

Airbill Number: 1973699151

6. Ship To: RECRA Environmental Inc.
10 Hazelwood Drive
Amherst NY 14228
716-691-2600
ATTN: Sample Custodian

7. Date Received -- Received by: 9/24/94 D Breau

Laboratory Contract Number:

Unit Price:

8. Transfer to:

Date Received:

Received by:

Contract Number:

Price:

CLP Sample Numbers (from labels)	A Enter # From Box 1	B Conc. Low Med High	C Sample Type: Comp./ Grab	D Preservative from Box 6	E RAS Analysis: VOA	BNA	Pest/ PCB	High ARO/ TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/ Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No.	K Sample Condition on Rec't	L High Conc. Phases (Check below): Solids	Water - Ms Liq.	Non Water - Ms Liq.
CNF 30	4	L	G	1	X				3-115 4338 thru 3-115 4340	KOPTB14	9/23/94 0810	DEN	–				
CNF 32	5	L	G	6	X	X			3-115 4341 thru 3-115 4343	KOPSB126/2-4	9/23/94 0925	DEN	MCND32				
CNF 33	5	L	G	6	X	X			3-115 4345 thru 3-115 4347	KOPSB126/6-8	9/23/94 0950	DEN	MCND33				

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

Page 1 of 1

Sample used for a spike and/or duplicate:

Additional Sampler Signatures:

Chain of Custody Seal Number:

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	9/23/94 1300				
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	
		D Breau	9/24/94 1030	Cooler Temp = 5°C	

Split Samples: ☐ Accepted ☐ Declined (Signature): N/A

EPA 110-2 (Rev. 5-91) Replaces EPA Form (2075-7), previous edition which may be

DISTRIBUTION:

AR305056

0177

PAGE 1 OF ___
(1)

EPA SAMPLE SHIPPING LOG

ARC/TETRA

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

PROJECT SITE NAME: KOPPERS FACILITY
EPA PROJ. OFFICER: Lisa Marino
RAS NO. 22655
SAS NO:
TASK OR SET NO.
PROJECT SITE LEADER: E.W. Rogers
PHONE NO. (304) 738-7551
PROJECT SAMPLE COORDINATOR: E.W. Rogers
PHONE NO. (304) 738-7551

SAS REQUEST (DETAILS REQUIRED)
(10)

QC SAMPLE INFORMATION AND/OR COMMENTS	CONC (LOW/ MED/ HIGH)	SAMPLE PHASE (AQ/ SOL)	TYPE OF REQUEST (ORG.DIO OR INOR) SAS)	EPA SAMPLE NO.	ORGANICS OR INORGANICS: LAB NAME	DATE SHIPPED	DATA RECEIVED (XX-OUT ITEMS NOT REQUESTED): VOA	BNA	PEST	TCDD	METALS	CN	LAB NAME	SAS REQUEST (ITEMIZE)	DATE SHIP'D	DATA REC'D
(2)	(3) L	(4) SOL	(5) INORG	(6) MCND16	(7) ALI	(8) 9/15/94	←			(9)	✓	→	(11)	(12)	(13)	
				MCND 17							✓					
				MCND 18							✓					
				MCND 19							✓					
				MCND 20							✓					
MS/MSD	L			MCND 21							✓		Recd 10/21/94			
TB		AQ	ORG	CKS 97	RECNY	9/15/94	✓	✗								
				CKS 98			✓	✓								
				CKS 99			✓	✓								
				CNF 11			✓	✓								
				CNF 12			✓	✓								
				CNF 13			✓	✓								
MS/MSD				CNF 14			✓	✓								
TB	L			CNF 15			✓	✗								
						rec'd 10/28/94										

SEP 1994

CKS98 SOil
99 "
CNF 11 "
CNF 12 "
CNF 13 "
CNF14 "

FINAL SAMPLING: YES ☐; NO ☒
(14)

FINAL SHIPPING DATE: 9/23/94

REVISION 02/90

AR305057

PAGE 1 OF 2
(1)

EPA SAMPLE SHIPPING LOG

ARC/TETRA

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

PROJECT SITE NAME: Former KOPPERS Facility
EPA PROJ. OFFICER: Lisa Marino
RAS NO. 22655
SAS NO:
TASK OR SET NO. 4232-05
PROJECT SITE LEADER: E. Rogers
PHONE NO. (302) 738-7551
PROJECT SAMPLE COORDINATOR: "
PHONE NO. (") "

SAS REQUEST (DETAILS REQUIRED)
(10)

AR305058

QC SAMPLE INFORMATION AND/OR COMMENTS	CONC (LOW/ MED/ HIGH)	SAMPLE PHASE (AQ/ SOL)	TYPE OF REQUEST (ORG.DIO OR INOR) SAS)	EPA SAMPLE NO.	ORGANICS OR INORGANICS: LAB NAME	DATE SHIPPED	DATA RECEIVED (XX-OUT ITEMS NOT REQUESTED): VOA	BNA	PEST	TCDD	METALS	CN	SAS REQUEST: LAB NAME	SAS REQUEST (ITEMIZE)	DATE SHIP'D	DATA REC'D
(2) TB	(3) L	(4) AQ	(5) ORG	(6) CNF 16	(7) RECNY	(8) 9/20/94	✓	X	X	X	X	X	rec'd	9/28/94	9/31	
–	L	SOL		CNF 17			✓	✓								
–	L	SOL		CNF 18			✓	✓								
TB	L	AQ		CNF 19			✓	X					rec'd	10/28/94		
–	L	SOL		CNF 20			✓	✓								
–	L	SOL		CNF 21			✓	✓								
	L	SOL	INORG	MCND 22	ALI	9/20/94					✓					
	L	SOL		MCND 23							✓					
	L	SOL		MCND 24							✓					
	L	SOL		MCND 25							✓					
	L	SOL	INORG	MCND 26	ALI	9/20/94					✓					
	L			MCND 27												
	L			MCND 28												
	L			MCND 30												
	L			MCND 31												
	L	SOL	ORG	CNF 22	RECNY	9/22/94	✓	✓	X	X						
	L	SOL	ORG	CNF 23			✓	✓	X	X						
TB	L	SOL	ORG	CNF 24			✓	X	X	X			rec'd	10/28/94		

CNF 24
TB
(AQ) ?

SEP 1994
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FINAL SAM (14) YES ☒ NO ~~ONRA~~ 9/22/94 FINAL SHIPPING DATE: 9/3/94

REVISION 02/90

PAGE 2 OF 2
(1)

EPA SAMPLE SHIPPING LOG

ARC/TETRA

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

PROJECT SITE NAME: Former Koppers Facility
EPA PROJ. OFFICER: Lisa Marino
RAS NO. 22655
SAS NO:
TASK OR SET NO. T4232-05
PROJECT SITE LEADER: E. Rogers
PHONE NO. (302) 738-7551
PROJECT SAMPLE COORDINATOR: "
PHONE NO. (") "

SAS REQUEST (DETAILS REQUIRED)
(10)

QC SAMPLE INFORMATION AND/OR COMMENTS	CONC (LOW/ MED/ HIGH)	SAMPLE PHASE (AQ/ SOL)	TYPE OF REQUEST (ORG.DIO OR INOR) SAS)	EPA SAMPLE NO.	ORGANICS OR INORGANICS: LAB. NAME	DATE SHIPPED	DATA RECEIVED (XX-OUT ITEMS NOT REQUESTED): VOA	BNA	PEST	TCDD	METALS	CN	LAB NAME	SAS REQUEST (ITEMIZE)	DATE SHIP'D	DATA REC'D
(2)	(3)	(4)	(5)	(6)	(7)	(8)	←			(9)		→	(11)	(12)	(13)	
	L	SOL	ORG	CNF 25	RECNY	9/22/94	✓	✓	✓	X	X	X				
TB	↓	↓	↓	CNF 27	↓	↓	✓	X	X	X	X	X	rec'd	10/28/94	[illegible]	
				CNF 28			✓	✓	X	X	X	X				
	↓	↓	↓	CNF 29	↓	↓	✓	✓	X	X	X	X				
	L	SOL	ORG	CNF 32	RECNY	9/23/94	✓	✓	X	X	X	X				
	L	Sol	↓	CNF 33	↓	↓	✓	✓	X	X	X	X				
TB	L	AQ	↓	CNF 30	↓	↓	✓	X	X	X	X	X	rec'd	10/28/94	[illegible]	
	L	SOL	INorg	MCND 32	ALI	9/23/94					✓	X				
	L	SOL	↓	MCND 33	↓	↓					✓	X	fwd 10/21/94 [illegible]			

SEP 1994
RECEIVED

FINAL SAMPLING: YES ☒; NO ☐; FINAL SHIPPING DATE:
(14)

REVISION 02/90

AR305056

SDG NARRATIVE

Laboratory Name: Recra Environmental, Inc.

Laboratory Code: RECNY

Case Number: 22655

SDG Number: CKS97

Contract Number: 68-D2-0027

Sample Identification:

CKS97
CKS98
CKS99
CNF11
CNF12
CNF13
CNF14
CNF14 MATRIX SPIKE
CNF14 MATRIX SPIKE DUPLICATE
CNF15
CNF17
CNF18
CNF20
CNF21
CNF22
CNF23
CNF25
CNF28
CNF29
CNF32
CNF33

METHODOLOGY

Analyses were performed in accordance with United States Environmental Protection Agency March 1990 Statement of Work.

COMMENTS

Comments pertain to data on one or all pages of this report.

The enclosed results have been reported utilizing data qualifiers (Q) as defined on the Organic Data Comment Page.

All original data possibly common to several Sample Delivery Groups is kept on file by our laboratory. This includes continuing calibration, BFB, DFTPP and method blank data. Copies of these data are submitted in this data package.

Results of the analyses of soil samples have been corrected for moisture content and are reported on a dry weight basis.

All soil samples underwent GPC cleanup prior to analyses for semivolatile and Pesticide/PCB constituents. The elevated detection limits are the result of a dilution factor of two (2) inherent in GPC cleanup.

VOLATILE DATA

Volatile sample and standard areas are listed on the corresponding data system printouts.

Volatile data was processed utilizing Finnigan Autoquantitation and QA Formaster software. All compounds determined to be present by the computer-generated autoquantitation were subjected to a manual ion search for secondary and tertiary ions. False positive compounds are crossed out, initialed and dated in this data package.

Ortho-Xylene and meta & para-Xylene elute separately on a capillary column. They are reported in this data package as Total Xylenes. The concentration is calculated by adding the areas of ortho-Xylene and meta & para-Xylene and using only the response factor form ortho-Xylene to calculate the nanogram amount.

Methylene Chloride and Carbon Disulfide coelute on the capillary column used for analysis. When both compounds are present, mixed spectra are observed.

Internal standard and surrogate peaks on all RIC's are labelled with a number corresponding to the compound on the quantitation report.

Samples CKS97 and CNF15 both exhibited a pH of approximately 1.

Sample CNF15 exhibited the surrogate recovery for 1,2-Dichloroethane as above Quality Control Limits. The Limits are 76% - 114% and the recovery was 115%, therefore the laboratory compared this tripblank's recovery with the soil QC Limits and not the water limits. This sample was not re-analyzed.

The Relative Percent Difference for the following compounds were outside QC Limits: 1,1-Dichloroethene, Benzene, Toluene and Chlorobenzene.

Several Tripblanks appear to be tap water and not volatile free water, therefore, there are positive hits in the tripblanks. This was brought to the attention of Sample Management Office and the Region and copies of the telephone conversation logs are in the Case File Purge.

SEMIVOLATILE DATA

Semivolatile sample and standard areas are listed on the corresponding data system printouts.

Semivolatile data was processed utilizing Finnigan Autoquantitation and QA Formaster software. All compounds determined to be present by the computer-generated autoquantitation were subjected to a manual ion search for secondary and tertiary ions. False positive compounds are crossed out, initialed and dated on the quantitation reports in this analytical data package.

The initials "NL" or "NLF" on the quantitation reports stand for "not looked for". The compound is not reported.

Sample CNF14 Matrix Spike exhibits the spike recovery for Pyrene as above QC Limits. Sample CNF14 Matrix Spike Duplicate exhibits the spike recovery for Pentachlorophenol as outside QC Limits. The Relative Percent Difference for Pentachlorophenol is outside Quality Control Limits.

Sample CNF20 exhibited the Internal Standard Chrysene as outside limits, therefore, a re-analysis was required and CNF20RE exhibited Internal Standards Chrysene and Perylene as outside Limits.

Sample CNF21 exhibited the Internal Standard Chrysene as outside limits, therefore, a re-analysis was required and CNF21RE exhibited Internal Standards Chrysene and Perylene as outside Limits.

Samples CNF14, CNF14 Matrix Spike and CNF14 Matrix Spike Duplicate all exhibit Internal Standard Perylene as outside QC Limits.

Samples CKS98 and SBLK45 were inadvertently spiked with 80 NG of Internal Standard instead of the required 40 NG. As a result it appears that Internal Standard Phenanthrene is out in sample CKS98 and Internal Standards Phenanthrene and Chrysene are out in SBLK45. The Internal Standard recoveries for these samples are compliant.

Sample CNF22 required a dilution of four (4) due to the high concentrations of Phenanthrene and Fluoranthene.

Semivolatile Method Blank, SBLK45, exhibits the presence of eighteen (18) tentatively identified compounds (TIC's).

Semivolatile Method Blank, SBLK31, exhibits the presence of three (3) tentatively identified compounds (TIC's).

Semivolatile Method Blank, SBLK52, exhibits the presence of one (1) tentatively identified compound (TIC).

Semivolatile Method Blank, SBLK27, exhibits the presence of two (2) tentatively identified compounds (TIC's).

PESTICIDE/PCB DATA

The Relative Percent Difference is non-compliant on the DB608 column for methoxychlor in INDAM03 analyzed 10/13/94 at 02:51 and in INDAM05 analyzed 10/14/94 at 23:39. The Relative Percent Difference is non-compliant on the DB1701 column for 4,4'-DDT in PEM05 analyzed 10/13/94 at 14:28.

The retention times fell outside the established windows on the DB1701 column for beta-BHC in INDBM04 analyzed 10/14/94 at 02:10 and in PEM06 analyzed 10/14/94 at 12:24; beta-BHC, endosulfan sulfate, endrin ketone in INDBM06 analyzed 10/18/94 at 04:34.

"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 floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

K.E. Kasperek

Kenneth E. Kasperek
Laboratory Director

10/27/94
Date

RECRA
ENVIRONMENTAL
INC.

EPA

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Organic Traffic Report & Chain of Custody Record

(For Organic CLP Analysis)

SAS No. (if applicable):

Case No.: 22655

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

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NaHSO4
   4. H_2SO_4
   5. Other (Specify)
   6. Ice only
   N. Not preserved

3. Region No.: III

Sampling Co.: Tetra Tech

Sampler (Name): David E. Nordish

Sampler Signature: David E. Nordish

4. Type of Activity: Lead / Pre-Remedial / Remedial / Removal
   SF / PRP / ST / FED / PA / SSI / LSI / RIFS / RD / RA / O&M / NPLD / CLEM / REMA / REM / OIL / UST

5. Date Shipped: 9-15-94

Carrier: Fed Ex

Airbill Number: 1973698974

6. Ship To: ALCRA Environmental Inc
10 Hazelwood Drive
Amherst, NY 14228
716-691-2600
ATTN: Sample Custodian

7. Date Received -- Received by: 9-16-94

Laboratory Contract Number:

Unit Price:

8. Transfer to:

Date Received:

Received by:

Contract Number:

Price:

CLP Sample Numbers (from labels)	A Enter # From Box 1	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative from Box 6	E RAS Analysis: VOA	BNA	Pest/PCB	High ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No.	K Sample Condition on Rec'd	L High Conc. Phases (Check below): Solids	Water -- Ms Liq.	Non Water -- Ms Liq.
CKS97	4	L	G	1	X				3-125 6781 thru 3-125 6783	KOPTB08	9/14/94 1125	DEN	MCND16				
CKS98	5	L	C/G	6	X	X			3-125 6784 thru 3-125 6786	KOPSB216/4-6	9/14/94 1310	DEN	MCND16				
CKS99	5	L	C/G	6	X	X			3-125 6788 thru 3-125 6790	KOPSB216/2-4	9/14/94 1300	DEN	MCND17				
CNF11	5	L	C/G	6	X	X			3-125 6793 thru 3-125 6795	KOPSB604/4-6	9/14/94 1540	DEN	MCND18				
CNF12	5	L	C/G	6	X	X			3-125 6796 thru 3-125 6798	KOPSB604/6-8	9/14/94 1545	DEN	MCND19				
CNF14	5	L	C/G	6	X	X			3-115 3790 thru 3-115 3794	KOPSB203/6-8	9/15/94 1440	DEN	MCND21				
CNF13	5	L	C/G	6	X	X			3-115 330 thru 3-115 332	KOPSB203/4-6	9/15/94 1410	DEN	MCND20				
CNF15	4	L	G	1	X				3-115 3747 thru 3-115 3749	KOPTB09	9/15/94 0940	DEN	—				

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

Page 1 of 1

Sample used for a spike and/or duplicate: CNF14

Additional Sampler Signatures:

Chain of Custody Seal Number:

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
David E. Nordish	9-15-94 1700				
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	
			9-16-94 1030	Cooler = 4°C	9-11

Samples ☐ Accepted (Signature)
☐ Declined NA

EPA Form 8110-2 (1-91) Replaces EPA Form (2075-7), previous edition which may be used

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

AR305064

0174

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

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

SAS No. (If applicable):
Case No.: 22655

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

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NaHSO4
   4. H_2SO_4
   5. Other (Specify)
   6. Ice only
   N. Not preserved

3. Region No.: III
Sampling Co.: Tetra Tech
Sampler (Name): David E. Neidigh
Sampler Signature: [signature]

4. Type of Activity: Lead / Pre-Remedial / Remedial / Removal
SF / PRP / ST / FED / PA / SSI / LSI / RIFS / RD / RA / O&M / NPLD / CLEM / REMA / REM / OIL / UST

5. Date Shipped: 9/20/94
Carrier: Fed Ex
Airbill Number: 1973699022

6. Ship To: RECRA Environmental Inc.
10 Hazelwood Drive
Amherst NY 14225
(716) 691-2600
ATTN: Sample Custodian

7. Date Received -- Received by: 9/21/94 [signature]
Laboratory Contract Number:
Unit Price:
8. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

CLP Sample Numbers (from labels)	A Enter # From Box 1	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative from Box 6	E RAS Analysis: VOA	BNA	Pest/PCB	High ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No.	K Sample Condition on Rec'd	L High Conc. Phases (Check below): Solids	Water - Mis Liq.	Non Water - Mis Liq.
CNF16	4	L	G	1	X				3-118268 [illegible] 3-118268 [illegible]	KOPTB10	9/19/94 0950	DEN	—				
CNF17	5	L	G	6	X	X			3-118268 [illegible] 3-118268 [illegible]	KOPSB205/0-2	9/19/94 1050	DEN	MCND22				
CNF18	5	L	G	6	X	X			3-118268 [illegible] 3-118268 [illegible]	KOPSB205/6-8	9/19/94 1440	DEN	MCND23				
CNF19	4	L	G	1	X				3-118268 [illegible] 3-118268 [illegible]	KOPTB11	9/20/94 0815	DEN	—				
CNF20	5	L	G	6	X	X			3-118268 [illegible] 3-118268 [illegible]	KOPSB607/2-4	9/20/94 0828	DEN	MCND24				
CNF21	5	L	G	6	X	X			3-118268 [illegible] 3-118268 [illegible]	KOPSB607/4-6	9/20/94 0832	DEN	MCND25				

Shipment for Case complete? (Y/N): Y
Page 1 of 1
Sample used for a spike and/or duplicate:
Additional Sampler Signatures:
Chain of Custody Seal Number:

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	9/20/94 1600				
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	
		[signature]	9/21/94 1000	coolers = 3°C	[signature] 9/21

Split Samples: ☐ Accepted (Signature) ☐ Declined [signature]

EPA Form 9110-2 (Rev. 5-91) Replaces EPA Form (2075-7), previous edition which may be used

DISTRIBUTION:
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SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS

AR305065

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Org-2

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK **1571**

Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Instrument ID: I50W Calibration date: 10/03/94 Time: 1800

Lab File ID: 18003W Init. Calib. Date(s): 10/03/94 10/03/94

Init. Calib. Times: 1800 2009

Samples: SBLK31

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Phenol	2.087	2.299	0.800	-10.2	25.0
bis(2-Chloroethyl)Ether	1.701	1.854	0.700	-9.0	25.0
2-Chlorophenol	1.559	1.577	0.800	-1.2	25.0
1,3-Dichlorobenzene	1.633	1.590	0.600	2.6	25.0
1,4-Dichlorobenzene	1.741	1.955	0.500	-12.3	25.0
1,2-Dichlorobenzene	1.497	1.561	0.400	-4.3	25.0
2-Methylphenol	1.391	1.183	0.700	15.0	25.0
2,2'-oxybis(1-Chloropropane)	1.527	1.371		10.2	
4-Methylphenol	1.414	1.241	0.600	12.2	25.0
N-Nitroso-Di-n-Propylamine	0.956	1.015	0.500	-6.2	25.0
Hexachloroethane	0.748	0.694	0.300	7.2	25.0
Nitrobenzene	0.402	0.336	0.200	16.4	25.0
Isophorone	0.743	0.678	0.400	8.7	25.0
2-Nitrophenol	0.236	0.193	0.100	18.2	25.0
2,4-Dimethylphenol	0.370	0.305	0.200	17.6	25.0
bis(2-Chloroethoxy)Methane	0.515	0.542	0.300	-5.2	25.0
2,4-Dichlorophenol	0.335	0.300	0.200	10.4	25.0
1,2,4-Trichlorobenzene	0.355	0.342	0.200	3.7	25.0
Naphthalene	1.135	1.310	0.700	-15.4	25.0
4-Chloroaniline	0.540	0.517		4.3	
Hexachlorobutadiene	0.169	0.158		6.5	
4-Chloro-3-Methylphenol	0.310	0.310	0.200	0.0	25.0
2-Methylnaphthalene	0.766	0.738	0.400	3.7	25.0
Hexachlorocyclopentadiene	0.352	0.347		1.4	
2,4,6-Trichlorophenol	0.392	0.357	0.200	8.9	25.0
2,4,5-Trichlorophenol	0.459	0.444	0.200	3.3	25.0
2-Chloronaphthalene	1.263	1.128	0.800	10.7	25.0
2-Nitroaniline	0.379	0.306		19.3	
Dimethyl Phthalate	1.276	1.241		2.7	
Acenaphthylene	1.891	1.876	1.300	0.8	25.0
2,6-Dinitrotoluene	0.325	0.327	0.200	-0.6	25.0
3-Nitroaniline	0.481	0.465		3.3	
Acenaphthene	1.095	1.152	0.800	-5.2	25.0
2,4-Dinitrophenol	0.102	0.036		64.7	
4-Nitrophenol	0.120	0.107		10.8	
Dibenzofuran	1.807	1.844	0.800	-2.0	25.0
2,4-Dinitrotoluene	0.391	0.418	0.200	-6.9	25.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Instrument ID: I50W Calibration date: 10/03/94 Time: 1800

Lab File ID: 18003W Init. Calib. Date(s): 10/03/94 10/03/94

Init. Calib. Times: 1800 2009

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.208	1.187		1.7	
4-Chlorophenyl-phenylether	0.575	0.602	0.400	-4.7	25.0
Fluorene	1.255	1.345	0.900	-7.2	25.0
4-Nitroaniline	0.358	0.362		-1.1	
4,6-Dinitro-2-Methylphenol	0.148	0.097		34.5	
N-Nitrosodiphenylamine (1)	0.675	0.662		1.9	
4-Bromophenyl-phenylether	0.255	0.253	0.100	0.8	25.0
Hexachlorobenzene	0.272	0.283	0.100	-4.0	25.0
Pentachlorophenol	0.110	0.081	0.050	26.4	25.0
Phenanthrene	1.279	1.408	0.700	-10.1	25.0
Anthracene	1.289	1.358	0.700	-5.4	25.0
Carbazole	1.274	1.404		-10.2	
Di-n-Butylphthalate	1.592	1.490		6.4	
Fluoranthene	1.281	1.367	0.600	-6.7	25.0
Pyrene	1.501	1.502	0.600	-0.1	25.0
Butylbenzylphthalate	0.707	0.669		5.4	
3,3'-Dichlorobenzidine	0.514	0.482		6.2	
Benzo(a)Anthracene	1.201	1.296	0.800	-7.9	25.0
Chrysene	1.302	1.398	0.700	-7.4	25.0
Bis(2-Ethylhexyl)Phthalate	0.953	0.912		4.3	
Di-n-Octyl Phthalate	2.640	2.678		-1.4	
Benzo(b)Fluoranthene	2.179	1.830	0.700	16.0	25.0
Benzo(k)Fluoranthene	1.643	1.670	0.700	-1.6	25.0
Benzo(a)Pyrene	1.608	1.527	0.700	5.0	25.0
Indeno(1,2,3-cd)Pyrene	1.486	1.449	0.500	2.5	25.0
Dibenz(a,h)Anthracene	1.341	1.329	0.400	0.9	25.0
Benzo(g,h,i)Perylene	1.297	1.266	0.500	2.4	25.0
Nitrobenzene-d5	0.363	0.307	0.200	15.4	25.0
2-Fluorobiphenyl	1.270	1.325	0.700	-4.3	25.0
Terphenyl-d14	0.911	0.901	0.500	1.1	25.0
Phenol-d5	1.597	1.276	0.800	20.1	25.0
2-Fluorophenol	1.067	1.072	0.600	-0.5	25.0
2,4,6-Tribromophenol	0.109	0.109		0.0	
2-Chlorophenol-d4	1.290	1.257	0.800	2.6	25.0
1,2-Dichlorobenzene-d4	0.883	0.930	0.400	-5.3	25.0

All other compounds must meet a minimum RRF of 0.010.

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY 0108

b Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	CKS97	95	101	109	0	0
02	CNF15	93	100	115 *	0	1

		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(88-110)
SMC2 (BFB)	= Bromofluorobenzene	(86-115)
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM II VOA-1

AR305068

3/90

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY 0112

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix Spike - EPA Sample No.: CNF14 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	59.00	0	81.59	138	59-172
Trichloroethene	59.00	0	64.96	110	62-137
Benzene	59.00	0	69.21	117	66-142
Toluene	59.00	0	67.56	114	59-139
Chlorobenzene	59.00	0	68.97	117	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMIT RPD	QC LIMIT REC.
1,1-Dichloroethene	60.10	63.32	105	27 *	22	59-172
Trichloroethene	60.10	54.04	90	20	24	62-137
Benzene	60.10	56.20	94	22 *	21	66-142
Toluene	60.10	52.72	88	26 *	21	59-139
Chlorobenzene	60.10	56.32	94	22 *	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 4 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: A4493006 CNF14
I50G

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix Spike - EPA Sample No.: CNF14 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Phenol	3110	0	2309	74	26- 90
2-Chlorophenol	3110	0	2052	66	25-102
1,4-Dichlorobenzene	2080	0	1414	68	28-104
N-Nitroso-di-n-prop.(1)	2080	0	1351	65	41-126
1,2,4-Trichlorobenzene	2080	0	1551	75	38-107
4-Chloro-3-methylphenol	3110	0	2153	69	26-103
Acenaphthene	2080	0	1592	77	31-137
4-Nitrophenol	3110	0	2199	71	11-114
2,4-Dinitrotoluene	2080	0	1555	75	28- 89
Pentachlorophenol	3110	0	729.8	23	17-109
Pyrene	2080	1215	4321	149 *	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	3110	1856	60	21	35	26- 90
2-Chlorophenol	3110	1935	62	6	50	25-102
1,4-Dichlorobenzene	2080	1275	61	11	27	28-104
N-Nitroso-di-n-prop.(1)	2080	1100	53	20	38	41-126
1,2,4-Trichlorobenzene	2080	1431	69	8	23	38-107
4-Chloro-3-methylphenol	3110	1916	62	11	33	26-103
Acenaphthene	2080	1428	69	11	19	31-137
4-Nitrophenol	3110	1869	60	17	50	11-114
2,4-Dinitrotoluene	2080	1296	62	19	47	28- 89
Pentachlorophenol	3110	439.1	14 *	49 *	47	17-109
Pyrene	2080	3378	104	36	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: 1 out of 11 outside limits
Spike Recovery: 2 out of 22 outside limits

COMMENTS:

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

0156

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Lab File ID (Standard): 17984W Date Analyzed: 09/30/94

Instrument ID: I50W Time Analyzed: 0653

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	17365	4.20	65011	5.32	38656	7.48
	UPPER LIMIT	34730	4.70	130022	5.82	77312	7.98
	LOWER LIMIT	8682	3.70	32506	4.82	19328	6.98
	EPA SAMPLE NO.						
01	CNF17	28211	4.22	101154	5.32	56228	7.48
02	CNF18	24456	4.22	92743	5.32	51904	7.48
03	CNF20	20848	4.20	82483	5.32	45892	7.48
04	CNF20RE	21936	4.20	78850	5.32	44320	7.48
05	CNF21	22805	4.20	84882	5.32	43294	7.48
06	CNF21RE	21510	4.20	84180	5.32	43866	7.48

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = + 100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = +0.50 minutes of internal standard RT.
RT LOWER LIMIT = -0.50 minutes of internal standard RT.

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

0157

Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Lab File ID (Standard): 17984W Date Analyzed: 09/30/94

Instrument ID: I50W Time Analyzed: 0653

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	55829	10.02	56581	15.10	29711	17.67
	UPPER LIMIT	111658	10.52	113162	15.60	59422	18.17
	LOWER LIMIT	27914	9.52	28290	14.60	14856	17.17
	EPA SAMPLE NO.						
01	CNF17	66906	10.02	29276	15.10	16115	17.69
02	CNF18	66076	10.02	32576	15.07	19410	17.65
03	CNF20	54818	10.00	27958 *	15.07	16695	17.65
04	CNF20RE	55822	10.02	28663	15.09	14838 *	17.65
05	CNF21	51930	10.00	27527 *	15.07	16923	17.65
06	CNF21RE	53462	10.00	25833 *	15.07	14744 *	17.65

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = + 100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = +0.50 minutes of internal standard RT.
RT LOWER LIMIT = -0.50 minutes of internal standard RT.

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Lab File ID (Standard): 20719Z Date Analyzed: 10/01/94

Instrument ID: I50Z Time Analyzed: 1352

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	151537	4.63	558510	5.87	331977	8.25
	UPPER LIMIT	303074	5.13	1117020	6.37	663954	8.75
	LOWER LIMIT	75768	4.13	279255	5.37	165988	7.75
	EPA SAMPLE NO.						
01	CKS98	288237	4.64	1086121	5.86	658367	8.25
02	CKS99	131603	4.64	468116	5.86	305524	8.24
03	CNF11	134312	4.64	496878	5.86	315028	8.24
04	CNF12	146036	4.64	532665	5.86	328059	8.24
05	CNF13	125537	4.64	462549	5.86	281030	8.24
06	CNF14	141154	4.63	508738	5.86	326584	8.24
07	CNF14MS	132224	4.64	475957	5.86	306945	8.25
08	CNF14MSD	128232	4.64	444968	5.86	284943	8.24
09	SBLK45	292860	4.64	1091672	5.87	653861	8.25

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = + 100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = +0.50 minutes of internal standard RT.
RT LOWER LIMIT = -0.50 minutes of internal standard RT.

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Lab File ID (Standard): 20719Z Date Analyzed: 10/01/94

Instrument ID: I50Z Time Analyzed: 1352

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	412430	10.87	413809	16.03	290619	18.65
	UPPER LIMIT	824860	11.37	827618	16.53	581238	19.15
	LOWER LIMIT	206215	10.37	206904	15.53	145310	18.15
	EPA SAMPLE NO.						
01	CKS98	912676	10.87	778875	16.03	538841	18.66
02	CKS99	411211	10.86	367014	16.01	237564	18.63
03	CNF11	418071	10.86	353596	16.01	241852	18.63
04	CNF12	448175	10.86	396310	16.01	270751	18.63
05	CNF13	374301	10.86	342443	16.01	217561	18.63
06	CNF14	439132	10.87	304152	16.03	109315 *	18.63
07	CNF14MS	425438	10.87	251798	16.03	83438 *	18.63
08	CNF14MSD	383853	10.87	241893	16.02	78453 *	18.63
09	SBLK45	905961	10.87	842135	16.04	562053	18.66

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = + 100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = +0.50 minutes of internal standard RT.
RT LOWER LIMIT = -0.50 minutes of internal standard RT.

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

AR305074

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0033
CNF22DL

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4506803DL

Sample wt/vol: 1.2 (g/mL) G Lab File ID: G1059

Level: (low/med) LOW Date Received: 09/23/94

% Moisture: not dec. 17 Date Analyzed: 09/27/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl Chloride	50	U
75-00-3	Chloroethane	50	U
75-09-2	Methylene Chloride	5	DJ
67-64-1	Acetone	630	D
75-15-0	Carbon Disulfide	50	U
75-35-4	1,1-Dichloroethene	50	U
75-34-3	1,1-Dichloroethane	50	U
540-59-0	1,2-Dichloroethene (total)	50	U
67-66-3	Chloroform	50	U
107-06-2	1,2-Dichloroethane	50	U
78-93-3	2-Butanone	50	U
71-55-6	1,1,1-Trichloroethane	50	U
56-23-5	Carbon Tetrachloride	50	U
75-27-4	Bromodichloromethane	50	U
78-87-5	1,2-Dichloropropane	50	U
10061-01-5	cis-1,3-dichloropropene	50	U
79-01-6	Trichloroethene	50	U
124-48-1	Dibromochloromethane	50	U
79-00-5	1,1,2-Trichloroethane	50	U
71-43-2	Benzene	50	U
10061-02-6	trans-1,3-dichloropropene	50	U
75-25-2	Bromoform	50	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	50	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U
108-88-3	Toluene	50	U
108-90-7	Chlorobenzene	50	U
100-41-4	Ethylbenzene	50	U
100-42-5	Styrene	50	U
1330-20-7	Total Xylenes	50	U

AR305075

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
0074

CNF20RE

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4500405RI

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 17998W

Level: (low/med) LOW Date Received: 09/21/94

% Moisture: 15 decanted: (Y/N) N Date Extracted: 09/22/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/30/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	390	U
111-44-4	bis(2-Chloroethyl)Ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
95-50-1	1,2-Dichlorobenzene	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-Di-n-Propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
111-91-1	bis(2-Chloroethoxy)Methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-Methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	940	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	940	U
131-11-3	Dimethyl Phthalate	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	940	U
83-32-9	Acenaphthene	390	U

AR305076

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
0075

CNF20RE

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4500405RI

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 17998W

Level: (low/med) LOW Date Received: 09/21/94

% Moisture: 15 decanted: (Y/N) N Date Extracted: 09/22/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/30/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	940	U
100-02-7	4-Nitrophenol	940	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	9	BJ
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	940	U
534-52-1	4,6-Dinitro-2-Methylphenol	940	U
86-30-6	N-Nitrosodiphenylamine (1)	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	940	U
85-01-8	Phenanthrene	12	J
120-12-7	Anthracene	6	J
86-74-8	Carbazole	390	U
84-74-2	Di-n-Butylphthalate	10	BJ
206-44-0	Fluoranthene	81	J
129-00-0	Pyrene	150	J
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)Anthracene	390	U
218-01-9	Chrysene	79	J
117-81-7	Bis(2-Ethylhexyl)Phthalate	170	BJ
117-84-0	Di-n-Octyl Phthalate	390	U
205-99-2	Benzo(b)Fluoranthene	130	J
207-08-9	Benzo(k)Fluoranthene	55	J
50-32-8	Benzo(a)Pyrene	56	J
193-39-5	Indeno(1,2,3-cd)Pyrene	40	J
53-70-3	Dibenz(a,h)Anthracene	9	J
191-24-2	Benzo(g,h,i)Perylene	29	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
0080
CNF21RE

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4500406RI

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 17999W

Level: (low/med) LOW Date Received: 09/21/94

% Moisture: 16 decanted: (Y/N) N Date Extracted: 09/22/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/30/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	390	U
111-44-4	bis(2-Chloroethyl)Ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
95-50-1	1,2-Dichlorobenzene	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-Di-n-Propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
111-91-1	bis(2-Chloroethoxy)Methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-Methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	950	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	950	U
131-11-3	Dimethyl Phthalate	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	950	U
83-32-9	Acenaphthene	390	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0081
CNF21RE

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4500406RI

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 17999W

Level: (low/med) LOW Date Received: 09/21/94

% Moisture: 16 decanted: (Y/N) N Date Extracted: 09/22/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/30/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	950	U
100-02-7	4-Nitrophenol	950	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	7	BJ
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	950	U
534-52-1	4,6-Dinitro-2-Methylphenol	950	U
86-30-6	N-Nitrosodiphenylamine (1)	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	950	U
85-01-8	Phenanthrene	390	U
120-12-7	Anthracene	390	U
86-74-8	Carbazole	390	U
84-74-2	Di-n-Butylphthalate	390	U
206-44-0	Fluoranthene	42	J
129-00-0	Pyrene	67	J
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)Anthracene	390	U
218-01-9	Chrysene	27	J
117-81-7	Bis(2-Ethylhexyl)Phthalate	150	BJ
117-84-0	Di-n-Octyl Phthalate	390	U
205-99-2	Benzo(b)Fluoranthene	38	J
207-08-9	Benzo(k)Fluoranthene	390	U
50-32-8	Benzo(a)Pyrene	12	J
193-39-5	Indeno(1,2,3-cd)Pyrene	8	J
53-70-3	Dibenz(a,h)Anthracene	390	U
191-24-2	Benzo(g,h,i)Perylene	390	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
0086
CNF22DL

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4506803DL

Sample wt/vol: 30.7 (g/mL) G Lab File ID: 18267W

Level: (low/med) LOW Date Received: 09/23/94

% Moisture: 18 decanted: (Y/N) N Date Extracted: 09/26/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/20/94

Injection Volume: 2.0 (uL) Dilution Factor: 4.0

GPC Cleanup: (Y/N) Y pH: 7.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1600	U
111-44-4	bis(2-Chloroethyl)Ether	1600	U
95-57-8	2-Chlorophenol	1600	U
541-73-1	1,3-Dichlorobenzene	1600	U
106-46-7	1,4-Dichlorobenzene	1600	U
95-50-1	1,2-Dichlorobenzene	1600	U
95-48-7	2-Methylphenol	1600	U
108-60-1	2,2'-oxybis(1-Chloropropane)	1600	U
106-44-5	4-Methylphenol	1600	U
621-64-7	N-Nitroso-Di-n-Propylamine	1600	U
67-72-1	Hexachloroethane	1600	U
98-95-3	Nitrobenzene	1600	U
78-59-1	Isophorone	1600	U
88-75-5	2-Nitrophenol	1600	U
105-67-9	2,4-Dimethylphenol	1600	U
111-91-1	bis(2-Chloroethoxy)Methane	1600	U
120-83-2	2,4-Dichlorophenol	1600	U
120-82-1	1,2,4-Trichlorobenzene	1600	U
91-20-3	Naphthalene	1600	U
106-47-8	4-Chloroaniline	1600	U
87-68-3	Hexachlorobutadiene	1600	U
59-50-7	4-Chloro-3-Methylphenol	1600	U
91-57-6	2-Methylnaphthalene	1600	U
77-47-4	Hexachlorocyclopentadiene	1600	U
88-06-2	2,4,6-Trichlorophenol	1600	U
95-95-4	2,4,5-Trichlorophenol	3800	U
91-58-7	2-Chloronaphthalene	1600	U
88-74-4	2-Nitroaniline	3800	U
131-11-3	Dimethyl Phthalate	1600	U
208-96-8	Acenaphthylene	1600	U
606-20-2	2,6-Dinitrotoluene	1600	U
99-09-2	3-Nitroaniline	3800	U
83-32-9	Acenaphthene	2700	D

AR305080

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 0087

CNF22DL

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4506803DL

Sample wt/vol: 30.7 (g/mL) G Lab File ID: 18267W

Level: (low/med) LOW Date Received: 09/23/94

% Moisture: 18 decanted: (Y/N) N Date Extracted: 09/26/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/20/94

Injection Volume: 2.0 (uL) Dilution Factor: 4.0

GPC Cleanup: (Y/N) Y pH: 7.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	3800	U
100-02-7	4-Nitrophenol	3800	U
132-64-9	Dibenzofuran	3400	D
121-14-2	2,4-Dinitrotoluene	1600	U
84-66-2	Diethylphthalate	1600	U
7005-72-3	4-Chlorophenyl-phenylether	1600	U
86-73-7	Fluorene	2200	D
100-01-6	4-Nitroaniline	3800	U
534-52-1	4,6-Dinitro-2-Methylphenol	3800	U
86-30-6	N-Nitrosodiphenylamine (1)	1600	U
101-55-3	4-Bromophenyl-phenylether	1600	U
118-74-1	Hexachlorobenzene	1600	U
87-86-5	Pentachlorophenol	3800	U
85-01-8	Phenanthrene	13000	D
120-12-7	Anthracene	930	DJ
86-74-8	Carbazole	590	DJ
84-74-2	Di-n-Butylphthalate	1600	U
206-44-0	Fluoranthene	5700	D
129-00-0	Pyrene	4700	D
85-68-7	Butylbenzylphthalate	1600	U
91-94-1	3,3'-Dichlorobenzidine	1600	U
56-55-3	Benzo(a)Anthracene	1200	DJ
218-01-9	Chrysene	890	DJ
117-81-7	Bis(2-Ethylhexyl)Phthalate	1600	U
117-84-0	Di-n-Octyl Phthalate	1600	U
205-99-2	Benzo(b)Fluoranthene	440	DJ
207-08-9	Benzo(k)Fluoranthene	200	DJ
50-32-8	Benzo(a)Pyrene	230	DJ
193-39-5	Indeno(1,2,3-cd)Pyrene	1600	U
53-70-3	Dibenz(a,h)Anthracene	1600	U
191-24-2	Benzo(g,h,i)Perylene	87	DJ

AR305081

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
0121

VBLK01

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4500409

Sample wt/vol: 5.0 (g/mL) G Lab File ID: G1010

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

% Moisture: not dec. ____ Date Analyzed: 09/22/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
0122
VBLK01

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4500409

Sample wt/vol: 5.0 (g/mL) G Lab File ID: G1010

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

% Moisture: not dec. ____ Date Analyzed: 09/22/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ORGANOSILICONE POLYMER	23.48	8	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
0124
VBLK02

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4507117

Sample wt/vol: 5.0 (g/mL) G Lab File ID: G1020

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

% Moisture: not dec. ____ Date Analyzed: 09/26/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	0.9	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U

AR305084

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
~~0125~~
VBLK02

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4507117

Sample wt/vol: 5.0 (g/mL) G Lab File ID: G1020

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

% Moisture: not dec. ____ Date Analyzed: 09/26/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
0127
VBLK03

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4507118

Sample wt/vol: 5.0 (g/mL) G Lab File ID: G1041

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

% Moisture: not dec. ____ Date Analyzed: 09/27/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
0128

VBLK03

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4507118

Sample wt/vol: 5.0 (g/mL) G Lab File ID: G1041

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

% Moisture: not dec. ____ Date Analyzed: 09/27/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
0115

VBLK98

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4493010

Sample wt/vol: 5.0 (g/mL) G Lab File ID: G9979

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

% Moisture: not dec. ____ Date Analyzed: 09/20/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U

AR305088

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
0116

VBLK98

ab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4493010

Sample wt/vol: 5.0 (g/mL) G Lab File ID: G9979

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

% Moisture: not dec. ____ Date Analyzed: 09/20/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK99 0118

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4500408

Sample wt/vol: 5.0 (g/mL) G Lab File ID: G9995

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

% Moisture: not dec. ____ Date Analyzed: 09/21/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
0119

VBLK99

Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4500408

Sample wt/vol: 5.0 (g/mL) G Lab File ID: G9995

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

% Moisture: not dec. ____ Date Analyzed: 09/21/94

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
0130
SBLK27

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4508205

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 17941W

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

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/27/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/28/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	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
111-91-1	bis(2-Chloroethoxy)Methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	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	800	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	800	U
131-11-3	Dimethyl Phthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	800	U
83-32-9	Acenaphthene	330	U

AR305092

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
0131

SBLK27

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4508205

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 17941W

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

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/27/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/28/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
51-28-5	2,4-Dinitrophenol	800	U
100-02-7	4-Nitrophenol	800	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	800	U
534-52-1	4,6-Dinitro-2-Methylphenol	800	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	800	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	18	J
117-84-0	Di-n-Octyl Phthalate	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	Dibenz(a,h)Anthracene	330	U
191-24-2	Benzo(g,h,i)Perylene	330	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0132
SBLK27

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4508205

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 17941W

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

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/27/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 09/28/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.83	400	J
2.	SUSPECTED ALDOL COND. PROD.	4.33	670	AJ

AR305094

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0134
SBLK45

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4493011

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 20724Z

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

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/20/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/01/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	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
111-91-1	bis(2-Chloroethoxy)Methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	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	800	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	800	U
131-11-3	Dimethyl Phthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	800	U
83-32-9	Acenaphthene	330	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
0135

SBLK45

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4493011

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 20724Z

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

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/20/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/01/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	800	U
100-02-7	4-Nitrophenol	800	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	800	U
534-52-1	4,6-Dinitro-2-Methylphenol	800	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	800	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-Octyl Phthalate	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	Dibenz(a,h)Anthracene	330	U
191-24-2	Benzo(g,h,i)Perylene	330	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
0136

SBLK45

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4493011

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 20724Z

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

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/20/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/01/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 18

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-83-8	CYCLOHEXENE	0.82	500	JN
2.	UNKNOWN	1.82	450	J
3.	SUSPECTED ALDOL COND. PROD.	2.73	3400	AJ
4.	UNKNOWN	2.88	280	J
5.	UNKNOWN	3.73	140	J
6.	UNKNOWN	4.10	310	J
7.	UNKNOWN	4.17	150	J
8.	UNKNOWN	11.05	180	J
9.	UNKNOWN	11.18	510	J
10.	UNKNOWN	11.37	1200	J
11.	UNKNOWN	11.53	350	J
12.	UNKNOWN	11.62	240	J
13.	UNKNOWN	11.68	690	J
14.	UNKNOWN	11.85	420	J
15.	UNKNOWN	11.97	300	J
16.	UNKNOWN	12.03	240	J
17.	UNKNOWN	12.32	150	J
18.	UNKNOWN	12.88	160	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
0138
SBLK31

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4500410

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 18008W

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

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/22/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/03/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	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
111-91-1	bis(2-Chloroethoxy)Methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	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	800	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	800	U
131-11-3	Dimethyl Phthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	800	U
83-32-9	Acenaphthene	330	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

~~0139~~

SBLK31

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4500410

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 18008W

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

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/22/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/03/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	800	U
100-02-7	4-Nitrophenol	800	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	11	J
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	800	U
534-52-1	4,6-Dinitro-2-Methylphenol	800	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	800	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	5	J
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	17	J
117-84-0	Di-n-Octyl Phthalate	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	Dibenz(a,h)Anthracene	330	U
191-24-2	Benzo(g,h,i)Perylene	330	U

AR305099

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
0140

SBLK31

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4500410

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 18008W

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

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/22/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/03/94

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	OXYGENATED COMPOUND	3.10	75	J
2.	SUSPECTED ALDOL COND. PROD.	3.40	390	AJ
3.	UNKNOWN	3.45	170	J

AR305100

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
0142

SBLK52

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4506809

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 18232W

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

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/26/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/18/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	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
111-91-1	bis(2-Chloroethoxy)Methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	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	800	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	800	U
131-11-3	Dimethyl Phthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	800	U
83-32-9	Acenaphthene	330	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
0143
SBLK52

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4506809

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 18232W

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

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/26/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/18/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	800	U
100-02-7	4-Nitrophenol	800	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	800	U
534-52-1	4,6-Dinitro-2-Methylphenol	800	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	800	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	11	J
117-84-0	Di-n-Octyl Phthalate	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	Dibenz(a,h)Anthracene	330	U
191-24-2	Benzo(g,h,i)Perylene	330	U

AR305102

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
0144

SBLK52

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4506809

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 18232W

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

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/26/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 10/18/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN OXYGENATED COMPOUND	3.83	530	J

AR305103

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
0146

PBLK09

Lab Name: RECRA ENVIRON Contract: 68D20027

Lab Code: RECNY Case No.: 22655 SAS No.: _____ SDG No.: CKS97

Matrix: (soil/water) SOIL Lab Sample ID: A4B0182501

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

% Moisture: _____ decanted: (Y/N) ___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/26/94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 10/13/94

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	67	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U