US EPA RECORDS CENTER REGION 5
493416

L0990305026 La Salle County
USEPA/ILLINOIS & MICHIGAN CANAL
Superfund/HRS

D. 2

CERCLA

Screening Site Inspection Analytical Results

VOL. 2
OF
2

RELEASED
DATE 3/21/97
RIN #
INITIALS J.P.

Illinois Environmental
Protection Agency
P.O. Box 19276
Springfield, IL 62794-9276

Confidential Material May be Enclosed

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APPENDIX F

ANALYTICAL RESULTS FROM IEPA COLLECTED SAMPLES

USEPA/I & M Canal
984785071

SAMPLE SUMMARY TABLE

SAMPLING POINT	X 105 5-13-92	X 101 5-13-92	X 102 5-13-92	X 103 5-13-92	X 104 5-13-92	X 201 5-13-92	X 202 5-13-92	X 203 5-13-92	X 401 5-13-92	X 402 5-13-92	X 403 5-13-92	X 405 5-13-92	X 406 5-13-92
PARAMETER	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
VOLATILES													
Methylene Chloride	--	--	8000.0 J	--	--	--	--	--	1600.0 J	--	1600.0 J	--	--
Acetone	--	--	--	--	--	1100.0 D	330.0	--	--	--	--	--	--
Toluene	8.0 J	6.0 J	--	--	--	--	--	3.0 J	5000.0	--	8600.0 J	--	--
Ethylbenzene	--	--	--	--	--	--	--	--	11000.0	1500.0 J	17000.0	1200.0 J	--
Xylene(total)	--	8.0 J	--	--	2000.0 J	--	--	--	46000.0	6300.0 J	83000.0	12000.0	11000.0
SEMIVOLATILES	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
Naphthalene	--	--	--	--	--	--	--	1200.0 J	170000.0 J	--	170000.0 J	130000.0 J	--
2-Methylnaphthalene	--	--	220000.0 J	--	130000.0 J	--	--	2400.0 J	930000.0	200000.0 J	610000.0	420000.0 J	360000.0 J
Phenanthrene	--	470.0 J	800000.0 J	2100.0 J	--	--	--	1400.0 J	830000.0 J	230000.0 J	360000.0 J	--	--
Fluoranthene	--	560.0 J	--	1900.0 J	--	1000.0 J	--	--	--	--	--	--	--
Pyrene	--	500.0 J	120000.0 J	2400.0 J	--	1100.0 J	1200.0 J	1000.0 J	--	130000.0 J	150000.0 J	--	--
Benzo(a)anthracene	--	--	--	1200.0 J	--	--	--	--	--	--	--	--	--
Chrysene	--	--	--	1100.0 J	--	--	--	--	140000.0 J	--	--	--	--
Benzo(b)fluoranthene	--	390.0 J	--	1600.0 J	--	--	1200.0 J	--	180000.0 J	--	--	--	--
Benzo(k)fluoranthene	--	370.0 J	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	--	370.0 J	--	960.0 J	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	--	--	--	1100.0 J	--	--	--	--	200000.0 J	--	--	--	--
PESTICIDES	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
alpha-BHC	--	--	--	--	--	4.9 JPD	--	--	--	--	--	--	--
Aldrin	--	--	--	24.0 JD	--	--	--	--	--	--	--	--	--
Dieldrin	--	--	1800.0 P	--	--	--	--	--	8100.0 D	8000.0 PD	2400.0 D	680.0 JPD	690.0 JP
4,4'-DDE	--	--	--	25.0 JPD	--	--	--	--	--	--	--	--	--
Endrin	--	--	--	47.0 JPD	--	12.0 JD	15.0 JPD	--	--	--	--	--	--
Endosulfan II	--	--	1700.0 P	36.0 JPD	--	--	--	--	--	--	--	--	--
4,4'-DDD	--	--	--	--	--	--	--	--	330.0 JPD	200.0 JPD	800.0 JP	--	--
4,4'-DDT	--	--	--	13.0 JPD	--	36.0 JPD	20.0 JPD PD	--	--	--	--	--	--
alpha-Chlordane	--	--	--	--	--	23.0 JPD	12.0 JPD	--	--	--	--	--	--
gamma-Chlordane	--	--	--	--	--	15.0 JPD	--	--	--	--	--	86.0 JPD	53.0 J
Toxaphene	--	--	--	--	--	--	--	--	--	24000.0 JPD	--	--	--
Aroclor-1242	--	--	--	--	--	--	--	4000.0 D	--	16000.0 PD	--	--	--
Aroclor-1248	--	--	--	140.0 JPD	--	--	--	--	--	--	--	--	--
Aroclor-1254	--	--	--	710.0 PD	--	--	300.0 JPD	--	--	--	--	--	--
Aroclor-1260	--	--	--	530.0 JPD	--	250.0 JPD	--	--	--	--	--	--	--
INORGANICS	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Aluminum	15200.0	10500.0	118.0	17900.0	746.0	23600.0	16100.0	9390.0	--	--	--	--	--
Arsenic	5.90	23.95	2.0 BJ	4.60 J	1.20 BJ	8.90	11.20	5.60	--	20.90	--	--	--
Barium	175.0	115.0	2.80 B	56.50	15.80 B	210.0	127.0	79.10	0.61 B	4.10 B	8.0 B	1.20 B	1.80 B
Beryllium	0.67	1.50	--	3.82	--	1.20	1.50	1.40	--	--	--	--	--
Cadmium	1.91	8.50	0.84	12.70	--	8.90	29.30	5.0	--	99.80	--	--	--
Calcium	12500.0	14200.0	1050.0 B	35600.0	2670.0	26200.0	21500.0	6330.0	--	217.0 B	--	--	--
Chromium	27.10	89.70	2.0 B	41.90	2.51 B	162.0	81.20	42.60	--	20.10	1.60 B	--	--
Cobalt	8.0	13.80	--	23.20	1.43 B	9.80 B	17.0	10.30	--	17.80	--	--	--
Copper	21.10	251.0	5.50 B	43.90	7.60 B	125.0	89.20	44.30	--	66.20	--	--	--
Iron	20500.0	37600.0	496.0	23600.0	1430.0	20400.0	35300.0	14700.0	53.20	261000.0	89.90	37.60 B	32.70 B
Lead	45.60 J	424.0 J	141.0 J	179.0 J	19.90	134.0 J	190.0	57.60 J	2.60 J	69100.0 J	15.30	4.10 J	--
Magnesium	6840.0	5470.0	143.0 B	23900.0	546.0 B	11900.0	8600.0	3520.0	--	--	--	--	--
Manganese	553.0 J	952.0 J	9.40 J	320.0 J	20.80 J	508.0 J	583.0 J	409.0 J	--	359.0 J	--	--	--
Mercury	0.18 J	0.318 J	4.25 J	0.06 BJ	0.03 BJ	0.41 J	0.34 J	0.18 J	0.24 J	251.0 J	--	--	--
Nickel	19.50	43.60	32.90	74.50	53.10	163.0	114.0	56.70	46.0	75.50	42.40	51.20	45.60
Potassium	3060.0	2260.0	--	2040.0	--	4970.0	3960.0	2320.0 J	--	--	--	--	--
Selenium	--	1.90 J	98.80	2.0 J	--	0.44 BJ	1.60 J	--	4.60 J	257.0	1.0 B	0.62 B	0.51 B
Silver	--	--	--	--	--	--	--	0.75	--	--	--	--	--
Sodium	182.0 B	11200.0	--	8430.0	--	1140.0 B	8760.0	--	--	--	--	--	--
Thallium	--	--	--	--	--	--	--	0.45	--	--	--	--	--
Vanadium	94.20	99.40	61.10	27.90	108.0	48.50	50.10	35.0	143.0	8.70	89.40	116.0	90.60
Zinc	288.0	7960.0	36.10	4440.0	87.50	1[illegible]	5690.0	1320.0	--	12700.0	--	--	[illegible]

U.S.E.P.A. DEFINED DATA QUALIFIERS

QUALIFIER	DEFINITION ORGANICS	DEFINITION INORGANICS
• U	Compound was tested for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For soil samples subjected to GPC clean-up procedures, the CRQL is also multiplied by two, to account for the fact that only half of the extract is recovered.	Analyte was analyzed for but not detected.
• J	Estimated value. Used when estimating a concentration for tentatively identified compounds (TICs) where a 1:1 response is assumed or when the mass spectral data indicate the presence of a compound that meets the identification criteria and the result is less than the sample quantitation limit but greater than zero. Used in data validation when the quality control data indicate that a value may not be accurate.	Estimated value. Used in data validation when the quality control data indicate that a value may not be accurate.
• C	This flag applies to pesticide results where the identification is confirmed by GC/MS.	Method qualifier indicates analysis by the Manual Spectrophotometric method.
• B	Analyte was found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action	The reported value is less than the CRDL but greater than the instrument detection limit (IDL).
• D	Identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and <u>all</u> concentration values are flagged with the "D" flag.	not used

QUALIFIER	DEFINITION ORGANICS	DEFINITION INORGANICS
• E	Identifies compounds whose concentrations exceed the calibration range for that specific analysis. All extracts containing compounds exceeding the calibration range must be diluted and analyzed again. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses must be reported on separate Forms I. The Form I for the diluted sample must have the "DL" suffix appended to the sample number.	The reported value is estimated because of the presence of interference
• A	This flag indicates that a TIC is a suspected aldol concentration product formed by the reaction of the solvents used to process the sample in the laboratory.	Method qualifier indicates analysis by Flame Atomic Absorption (AA).
• M	not used	Duplicate injection (a QC parameter) not met.
• N	not used	Spiked sample (a QC parameter) recovery not within control limits.
• S	not used	The reported value was determined by the Method of Standard Additions (MSA).
• W	not used	Post digestion spike for Furnace AA analysis (a QC parameter) is out of control limits of 85% to 115% recovery, while sample absorbance is less than 50% of spike absorbance.
• *	not used	Duplicate analysis (a QC parameter) not within control limits.
• +	not used	Correlation coefficient for MSA (a QC parameter) is less than 0.995.

QUALIFIER	DEFINITION ORGANICS	DEFINITION INORGANICS
• P	not used	Method qualifier indicates analysis by ICP (Inductively Coupled Plasma) Spectroscopy.
• CV	not used	Method qualifier indicates analysis by Cold Vapor AA.
• AV	not used	Method qualifier indicates analysis by Automated Cold Vapor AA
• AS	not used	Method qualifier indicates analysis by Semi-Automated Cold Spectrophotometry.
• T	not used	Method qualifier indicates Titrimetric analysis.
• NR	The analyte was not required to be analyzed.	The analyte was not required to be analyzed.
• R	Rejected data. The QC parameters indicate that the data is not usable for any purpose.	Rejected data. The QC parameters indicate that the data is not usable for any purpose.

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: USEPA I & M CANAL
Lab Code: Case No.: SAS No.: SDG No.: 75
Matrix (Soil): Lab Sample ID: B207163
Level (Low/Med): Date Received: 5/15/92
% Solids: 84.8

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10500			PM
7440-36-0	Antimony	5.0	U	N	PM
7440-38-2	Arsenic	23.95		*	FM
7440-39-3	Barium	115		*	PM
7440-41-7	Beryllium	1.5			PM
7440-43-9	Cadmium	6.5			PM
7440-70-2	Calcium	14200			PM
7440-47-3	Chromium	39.7			PM
7440-48-4	Cobalt	13.8			PM
7440-50-8	Copper	251			PM
7439-89-6	Iron	37600			PM
7439-92-1	Lead	424			FM
7439-95-4	Magnesium	5470		*	PM
7439-96-5	Manganese	352		*	PM
7439-97-6	Mercury	0.306			AS
7440-02-2	Nickel	43.6			PM
7440-09-7	Potassium	2260		*	PM
7782-49-2	Selenium	1.9		W	FM
7440-22-4	Silver	0.59	U		PM
7440-23-5	Sodium	11200			PM
7440-28-0	Thallium	0.35	U	W	FM
7440-62-2	Vanadium	29.4		*	PM
7440-66-6	Zinc	7960		N	PM
	Cyanide				AS

Color Before: Brown Clarity Before: Opaque Texture: Fine
Color After: Yellow Clarity After: Clear Artifacts:
Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: USEPA I & M CANAL
Lab Code: Case No.: SAS No.: SDG No.: 75
Matrix (Soil): Lab Sample ID: B207163
Level (Low/Med): Date Received: 5/15/92
% Solids: 84.8

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10500			PM
7440-36-0	Antimony	5.0	U	N	PM J
7440-38-2	Arsenic	23.95		*	FM
7440-39-3	Barium	115		*	PM
7440-41-7	Beryllium	1.5			PM
7440-43-9	Cadmium	6.5			PM
7440-70-2	Calcium	14200			PM
7440-47-3	Chromium	39.7			PM
7440-48-4	Cobalt	13.8			PM
7440-50-8	Copper	251			PM
7439-89-6	Iron	37600			PM
7439-92-1	Lead	424			FM J
7439-95-4	Magnesium	5470		*	PM
7439-96-5	Manganese	352		*	PM J
7439-97-6	Mercury	~~0.306~~ 0.318			AS J
7440-02-2	Nickel	43.6			PM
7440-09-7	Potassium	2260		*	PM
7782-49-2	Selenium	1.9		W	FM J
7440-22-4	Silver	0.59	U		PM
7440-23-5	Sodium	11200			PM
7440-28-0	Thallium	0.35	U	W	FM J
7440-62-2	Vanadium	29.4		*	PM
7440-66-6	Zinc	7960		N	PM
	Cyanide				AS

Color Before: Brown Clarity Before: Opaque Texture: Fine
Color After: Yellow Clarity After: Clear Artifacts:
Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: USEPA I & M CANAL
Lab Code: Case No.: SAS No.: SDG No.: 75
Matrix (Soil): Lab Sample ID: B207164
Level (Low/Med): Date Received: 5/15/92
% Solids: 94.7

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	118			PM	
7440-36-0	Antimony	17.0	U	N	PM	J
7440-38-2	Arsenic	2.0	B	W,*	FM	J
7440-39-3	Barium	2.8	B	*	PM	
7440-41-7	Beryllium	0.41	U		PM	
7440-43-9	Cadmium	0.48			PM	
7440-70-2	Calcium	1050	B		PM	
7440-47-3	Chromium	2.0	B		PM	
7440-48-4	Cobalt	1.2	U		PM	
7440-50-8	Copper	5.5	B		PM	
7439-89-6	Iron	498			PM	
7439-92-1	Lead	141			FM	J
7439-95-4	Magnesium	143	B	*	PM	
7439-96-5	Manganese	6.4		*	PM	J
7439-97-6	Mercury	~~4.10~~ 4.35 CS			AS	J
7440-02-2	Nickel	32.3			PM	
7440-09-7	Potassium	265	U	*	PM	
7782-49-2	Selenium	39.8		S	FM	
7440-22-4	Silver	2.0	U		PM	
7440-23-5	Sodium	272	~~B~~ U CS		PM	
7440-28-0	Thallium	1.2	U		FM	
7440-62-2	Vanadium	61.1		*	PM	
7440-66-6	Zinc	36.1		~~N~~ CS	PM	
	Cyanide				AS	

Color Before: Black Clarity Before: Opaque Texture: Oily
Color After: Yellow Clarity After: Clear Artifacts:
Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: USEPA I & M CANAL
Lab Code: Case No.: SAS No.: SDG No.: 75
Matrix (Soil): Lab Sample ID: B207165
Level (Low/Med): Date Received: 5/15/92
% Solids: 52.3

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	17900			PM	
7440-36-0	Antimony	7.6	U	N	PM	J
7440-38-2	Arsenic	4.8		*	FM	J
7440-39-3	Barium	58.5		*	PM	
7440-41-7	Beryllium	3.82			PM	
7440-43-9	Cadmium	12.7			PM	
7440-70-2	Calcium	35600			PM	
7440-47-3	Chromium	41.3			PM	
7440-48-4	Cobalt	23.2			PM	
7440-50-8	Copper	43.9			PM	
7439-89-6	Iron	23600			PM	
7439-92-1	Lead	179			FM	J
7439-95-4	Magnesium	23900		*	PM	
7439-96-5	Manganese	320		*	PM	J
7439-97-6	Mercury	0.06	B		AS	J
7440-02-2	Nickel	74.5			PM	
7440-09-7	Potassium	2040		*	PM	
7782-49-2	Selenium	2.0		W	FM	J
7440-22-4	Silver	0.90	U		PM	
7440-23-5	Sodium	5830			PM	
7440-28-0	Thallium	0.54	U	W	FM	J
7440-62-2	Vanadium	27.9		*	PM	
7440-66-6	Zinc	4440		N[Ca]	PM	
	Cyanide				AS	

Color Before: Brown Clarity Before: Opaque Texture: Medium
Color After: Green Clarity After: Clear Artifacts:
Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: USEPA I & M CANAL
Lab Code: Case No.: SAS No.: SDG No.: 75
Matrix (Soil): Lab Sample ID: B207166
Level (Low/Med): Date Received: 5/15/92
% Solids: 93.9

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	746			PM	
7440-36-0	Antimony	17.9	U	N	PM	J
7440-38-2	Arsenic	1.2	B	W, *	FM	J
7440-39-3	Barium	13.6	B	*	PM	
7440-41-7	Beryllium	0.43	U		PM	
7440-43-9	Cadmium	2.1	U		PM	
7440-70-2	Calcium	2670			PM	
7440-47-3	Chromium	2.51	B		PM	
7440-48-4	Cobalt	1.43	B		PM	
7440-50-8	Copper	7.9	B		PM	
7439-89-6	Iron	1430			PM	
7439-92-1	Lead	19.3		S	FM	
7439-95-4	Magnesium	548	B	*	PM	
7439-96-5	Manganese	20.8		*	PM	J
7439-97-6	Mercury	0.03	B		AS	J
7440-02-2	Nickel	53.1			PM	
7440-09-7	Potassium	278	U	*	PM	
7782-49-2	Selenium	0.43	U		FM	
7440-22-4	Silver	2.1	U		PM	
7440-23-5	Sodium	412	U	*	PM	
7440-28-0	Thallium	1.3	U		FM	
7440-62-2	Vanadium	108			PM	
7440-66-6	Zinc	87.5		*	PM	
	Cyanide			N	AS	

Color Before: Black Clarity Before: Opaque Texture: Oily
Color After: Yellow Clarity After: Clear Artifacts:
Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: USEPA I & M CANAL
Lab Code: Case No.: SAS No.: SDG No.: 75
Matrix (Soil): Lab Sample ID: B207167
Level (Low/Med): Date Received: 5/15/92
% Solids: 88.2

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	18200			PM	
7440-36-0	Antimony	4.7	U	N	PM	J
7440-38-2	Arsenic	5.9		S,*	FM	
7440-39-3	Barium	175		*	PM	
7440-41-7	Beryllium	0.87			PM	
7440-43-9	Cadmium	1.91			PM	
7440-70-2	Calcium	12500			PM	
7440-47-3	Chromium	27.1			PM	
7440-48-4	Cobalt	8.0			PM	
7440-50-8	Copper	21.1			PM	
7439-89-6	Iron	20500			PM	
7439-92-1	Lead	45.6			FM	J
7439-95-4	Magnesium	5840		*	PM	
7439-96-5	Manganese	563		*	PM	J
7439-97-6	Mercury	0.11			AS	J
7440-02-2	Nickel	19.5			PM	
7440-09-7	Potassium	3080		*	PM	
7782-49-2	Selenium	0.56	U	W	FM	J
7440-22-4	Silver	0.56	U		PM	
7440-23-5	Sodium	166	B		PM	
7440-28-0	Thallium	0.34	U	W	FM	J
7440-62-2	Vanadium	34.2		*	PM	
7440-66-6	Zinc	288		*	PM	
	Cyanide				AS	

Color Before: Brown Clarity Before: Opaque Texture: Fine
Color After: Colorless Clarity After: Clear Artifacts:
Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X201

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: USEPA I & M CANAL
Lab Code: Case No.: SAS No.: SDG No.: 75
Matrix (Soil): Lab Sample ID: B207168
Level (Low/Med): Date Received: 5/15/92
% Solids: 43.4

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	23800			PM	
7440-36-0	Antimony	9.7	U	N	PM	J
7440-38-2	Arsenic	9.9		S,*	FM	
7440-39-3	Barium	210		*	PM	
7440-41-7	Beryllium	1.2			PM	
7440-43-9	Cadmium	8.9			PM	
7440-70-2	Calcium	29200			PM	
7440-47-3	Chromium	162			PM	
7440-48-4	Cobalt	9.8	B		PM	
7440-50-8	Copper	125			PM	
7439-89-6	Iron	28500			PM	
7439-92-1	Lead	134			FM	J
7439-95-4	Magnesium	11900		*	PM	
7439-96-5	Manganese	508		*	PM	J
7439-97-6	Mercury	~~0.30~~ 0.41 cs			AS	J
7440-02-2	Nickel	163			PM	
7440-09-7	Potassium	4970		*	PM	
7782-49-2	Selenium	0.44	B	W	FM	J
7440-22-4	Silver	1.2	U		PM	
7440-23-5	Sodium	1140	B		PM	
7440-28-0	Thallium	0.69	U		FM	
7440-62-2	Vanadium	48.8		*	PM	
7440-66-6	Zinc	1330		N cs	PM	
	Cyanide				AS	

Color Before: Brown Clarity Before: Opaque Texture: Fine
Color After: Green Clarity After: Clear Artifacts:
Comments:

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X202

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: USEPA I & M CANAL
Lab Code: Case No.: SAS No.: SDG No.: 75
Matrix (Soil): Lab Sample ID: B207169
Level (Low/Med): Date Received: 5/15/92
% Solids: 48.9

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	16100			PM	
7440-36-0	Antimony	8.8	U	N	PM	J
7440-38-2	Arsenic	11.2		S,*	FM	
7440-39-3	Barium	127		*	PM	
7440-41-7	Beryllium	1.5			PM	
7440-43-9	Cadmium	29.3			PM	
7440-70-2	Calcium	21500			PM	
7440-47-3	Chromium	81.2			PM	
7440-48-4	Cobalt	17.0			PM	
7440-50-8	Copper	69.2			PM	
7439-89-6	Iron	35300			PM	
7439-92-1	Lead	139		S	FM	
7439-95-4	Magnesium	8600		*	PM	
7439-96-5	Manganese	883		*	PM	J
7439-97-6	Mercury	~~0.33~~ 0.34 CB			AS	J
7440-02-2	Nickel	114			PM	
7440-09-7	Potassium	3960		*	PM	
7782-49-2	Selenium	1.6		W	FM	J
7440-22-4	Silver	1.0	U		PM	
7440-23-5	Sodium	8760			PM	
7440-28-0	Thallium	0.63	U	W	FM	J
7440-62-2	Vanadium	50.1		*	PM	
7440-66-6	Zinc	5690		N CB	PM	
	Cyanide				AS	

Color Before: Brown Clarity Before: Opaque Texture: Fine
Color After: Yellow Clarity After: Clear Artifacts:
Comments:

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X203

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: USEPA I & M CANAL
Lab Code: Case No.: SAS No.: SDG No.: 75
Matrix (Soil): Lab Sample ID: B207170
Level (Low/Med): Date Received: 5/15/92
% Solids: 70.9

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	9380			PM	
7440-36-0	Antimony	6.3	U	N	PM	J
7440-38-2	Arsenic	5.8		S,*	FM	
7440-39-3	Barium	79.1		*	PM	
7440-41-7	Beryllium	1.4			PM	
7440-43-9	Cadmium	5.0			PM	
7440-70-2	Calcium	6330			PM	
7440-47-3	Chromium	42.8			PM	
7440-48-4	Cobalt	10.3			PM	
7440-50-8	Copper	44.3			PM	
7439-89-6	Iron	14700			PM	
7439-92-1	Lead	57.9			FM	J
7439-95-4	Magnesium	3520		*	PM	
7439-96-5	Manganese	409		*	PM	J
7439-97-6	Mercury	~~0.17~~ 0.18 CB			AS	J
7440-02-2	Nickel	56.7		*	PM	
7440-09-7	Potassium	2320		W	PM	J
7782-49-2	Selenium	1.3	U		FM	
7440-22-4	Silver	0.75			PM	
7440-23-5	Sodium	3020	U	W	PM	J
7440-28-0	Thallium	0.45		*	FM	
7440-62-2	Vanadium	35.0		N	PM	
7440-66-6	Zinc	1320			PM	
	Cyanide				AS	

Color Before: Black Clarity Before: Opaque Texture: Medium
Color After: Yellow Clarity After: Clear Artifacts:
Comments:

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X401

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: USEPA I & M CANAL
Lab Code: Case No.: SAS No.: SDG No.: 75
Matrix (Soil): Lab Sample ID: B207171
Level (Low/Med): Date Received: 5/15/92
% Solids: 97.6

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	59.9	U		PM	
7440-36-0	Antimony	17.5	U	N	PM	J
7440-38-2	Arsenic	0.83	U	*	FM	J
7440-39-3	Barium	0.61	B	*	PM	
7440-41-7	Beryllium	0.42	U		PM	
7440-43-9	Cadmium	2.1	U		PM	
7440-70-2	Calcium	84.6	U B		PM	
7440-47-3	Chromium	1.2	U		PM	
7440-48-4	Cobalt	1.2	U		PM	
7440-50-8	Copper	2.1	U		PM	
7439-89-6	Iron	53.2			PM	
7439-92-1	Lead	2.9			FM	J
7439-95-4	Magnesium	39.9	U	*	PM	
7439-96-5	Manganese	4.2	U	*	PM	J
7439-97-6	Mercury	~~0.23~~ 3.4 CB			AS	J
7440-02-2	Nickel	46.0			PM	
7440-09-7	Potassium	271	U	*	PM	
7782-49-2	Selenium	4.6		+	FM	J
7440-22-4	Silver	2.1	U		PM	
7440-23-5	Sodium	281	U B		PM	
7440-28-0	Thallium	1.25	U		FM	
7440-62-2	Vanadium	143		*	PM	
7440-66-6	Zinc	8.5	U	N CB	PM	
	Cyanide				AS	

Color Before: Black Clarity Before: Opaque Texture: Oily
Color After: Green Clarity After: Clear Artifacts:
Comments:

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X402

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: USEPA I & M CANAL
Lab Code: Case No.: SAS No.: SDG No.: 75
Matrix (Soil): Lab Sample ID: B207172
Level (Low/Med): Date Received: 5/15/92
% Solids: 71.0

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	21.2	U		PM	
7440-36-0	Antimony	6.2	U	N	PM	J
7440-38-2	Arsenic	20.9		*	FM	
7440-39-3	Barium	4.1	B	*	PM	
7440-41-7	Beryllium	0.15	U		PM	
7440-43-9	Cadmium	39.6			PM	
7440-70-2	Calcium	217	B		PM	
7440-47-3	Chromium	20.1			PM	
7440-48-4	Cobalt	17.8			PM	
7440-50-8	Copper	86.2			PM	
7439-89-6	Iron	281000			PM	
7439-92-1	Lead	6910			FM	J
7439-95-4	Magnesium	14.1	U	*	PM	
7439-96-5	Manganese	359		*	PM	J
7439-97-6	Mercury	251.8 ~~248~~			AS	J
7440-02-2	Nickel	75.5			PM	
7440-09-7	Potassium	95.8	U		PM	
7782-49-2	Selenium	257			FM	
7440-22-4	Silver	0.74	U		PM	
7440-23-5	Sodium	98.5	U		PM	
7440-28-0	Thallium	2.2	U	W	FM	J
7440-62-2	Vanadium	8.7		*	PM	
7440-66-6	Zinc	12700		N	PM	
	Cyanide				AS	

Color Before: Yellow Clarity Before: Opaque Texture: Fine
Color After: Green Clarity After: Clear Artifacts:
Comments:

FORM I - IN
SOIL

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X403

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: USEPA I & M CANAL
Lab Code: Case No.: SAS No.: SDG No.: 75
Matrix (Soil): Lab Sample ID: B207173
Level (Low/Med): Date Received: 5/15/92
% Solids: 91.0

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	64.8	U		PM	
7440-36-0	Antimony	18.9	U	N	PM	J
7440-38-2	Arsenic	1.4	U R	W,*	FM	J
7440-39-3	Barium	2.0	B	*	PM	
7440-41-7	Beryllium	0.45	U		PM	
7440-43-9	Cadmium	2.2	U		PM	
7440-70-2	Calcium	83.9	U R		PM	
7440-47-3	Chromium	1.6	B		PM	
7440-48-4	Cobalt	1.4	U		PM	
7440-50-8	Copper	2.2	U		PM	
7439-89-6	Iron	89.9			PM	
7439-92-1	Lead	13.3		S	FM	
7439-95-4	Magnesium	43.2	U	*	PM	
7439-96-5	Manganese	4.5	U	*	PM	J
7439-97-6	Mercury	~~0.005~~ 0.096 CS	U		AS	J
7440-02-2	Nickel	42.4			PM	
7440-09-7	Potassium	293	U	*	PM	
7782-49-2	Selenium	1.0	B		FM	
7440-22-4	Silver	2.2	U		PM	
7440-23-5	Sodium	468	U R		PM	
7440-28-0	Thallium	1.4	U	W	FM	J
7440-62-2	Vanadium	99.4		*	PM	
7440-66-6	Zinc	3.6	U	N CS	PM	
	Cyanide				AS	

Color Before: Black Clarity Before: Opaque Texture: Oily
Color After: Yellow Clarity After: Clear Artifacts:
Comments:

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X405

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: USEPA I & M CANAL
Lab Code: Case No.: SAS No.: SDG No.: 75
Matrix (Soil): Lab Sample ID: B207174
Level (Low/Med): Date Received: 5/15/92
% Solids: 94.2

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	59.2	U		PM	
7440-36-0	Antimony	17.3	U	N	PM	J
7440-38-2	Arsenic	0.82	U	*	FM	
7440-39-3	Barium	1.2	B	*	PM	
7440-41-7	Beryllium	0.41	U		PM	
7440-43-9	Cadmium	2.0	U		PM	
7440-70-2	Calcium	69.6	U R		PM	
7440-47-3	Chromium	1.2	U		PM	
7440-48-4	Cobalt	1.2	U		PM	
7440-50-8	Copper	2.0	U		PM	
7439-89-6	Iron	37.6	B		PM	
7439-92-1	Lead	4.1		W	FM	J
7439-95-4	Magnesium	39.4	U	*	PM	
7439-96-5	Manganese	4.1	U	*	PM	J
7439-97-6	Mercury	~~0.005~~ 0.00	U		AS	J
7440-02-2	Nickel	51.2			PM	
7440-09-7	Potassium	268	U	*	PM	
7782-49-2	Selenium	0.62	B		FM	
7440-22-4	Silver	2.0	U		PM	
7440-23-5	Sodium	193	U R		PM	
7440-28-0	Thallium	1.2	U		FM	
7440-62-2	Vanadium	116		*	PM	
7440-66-6	Zinc	6.7	U R	N	PM	
	Cyanide				AS	

Color Before: Black Clarity Before: Opaque Texture: Oily
Color After: Yellow Clarity After: Clear Artifacts:
Comments:

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X406

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: USEPA I & M CANAL
Lab Code: Case No.: SAS No.: SDG No.: 75
Matrix (Soil): Lab Sample ID: B207175
Level (Low/Med): Date Received: 5/15/92
% Solids: 96.0

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	56.6	U		PM	
7440-36-0	Antimony	16.5	U	N	PM	J
7440-38-2	Arsenic	0.79	U	*	FM	
7440-39-3	Barium	1.3	B	*	PM	
7440-41-7	Beryllium	0.39	U		PM	
7440-43-9	Cadmium	2.0	U		PM	
7440-70-2	Calcium	59.9	U R		PM	
7440-47-3	Chromium	1.2	U		PM	
7440-48-4	Cobalt	1.2	U		PM	
7440-50-8	Copper	2.0	U		PM	
7439-89-6	Iron	32.7	B		PM	
7439-92-1	Lead	0.86	U R		FM	J
7439-95-4	Magnesium	37.7	U	*	PM	
7439-96-5	Manganese	3.9	U	*	PM	J
7439-97-6	Mercury	0.005	U		AS	J
7440-02-2	Nickel	45.9			PM	
7440-09-7	Potassium	256	U	*	PM	
7782-49-2	Selenium	0.51	B		FM	
7440-22-4	Silver	2.0	U		PM	
7440-23-5	Sodium	183	U R		PM	
7440-28-0	Thallium	1.2	U		FM	
7440-62-2	Vanadium	96.8		*	PM	
7440-66-6	Zinc	7.5	U R	N	PM	
	Cyanide				AS	

Color Before: Black Clarity Before: Opaque Texture: Oily
Color After: Yellow Clarity After: Clear Artifacts:
Comments:

FORM I - IN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217188

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0519LC04

Level: (low/med) LOW Date Received: 05/14/92

% Moisture: not dec. 16 Date Analyzed: 05/19/92

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	12	UJ	
74-83-9	Bromomethane	12	U	
75-01-4	Vinyl Chloride	12	U	
75-00-3	Chloroethane	12	UJ	
75-09-2	Methylene Chloride	57	~~B~~U	am
67-64-1	Acetone	54	~~B~~U	am
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 ~~B~~	~~B~~U	am
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	6	J	
108-90-7	Chlorobenzene	12	U	
100-41-4	Ethylbenzene	12	U	
100-42-5	Styrene	12	U	
1330-20-7	Xylene (total)	3	J	

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217188

Sample wt/vol: 30.2 (g/mL) G Lab File ID: B0629W04

Level: (low/med) LOW Date Received: 05/14/92

% Moisture: 16 decanted: (Y/N) N Date Extracted: 05/19/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/29/92

Injection Volume: 2.0 (uL) Dilution Factor: 4.0

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

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	UJ
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	Dimethylphthalate	1600	U
208-96-8	Acenaphthylene	1600	U
606-20-2	2,6-Dinitrotoluene	1600	U
99-09-2	3-Nitroaniline	3800	UJ
83-32-9	Acenaphthene	1600	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217188

Sample wt/vol: 30.2 (g/mL) G Lab File ID: B0629W04

Level: (low/med) LOW Date Received: 05/14/92

% Moisture: 16 decanted: (Y/N) N Date Extracted: 05/19/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/29/92

Injection Volume: 2.0 (uL) Dilution Factor: 4.0

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	3800	U
100-02-7	4-Nitrophenol	3800	U
132-64-9	Dibenzofuran	1600	U
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	1600	U
100-10-6	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	470	J
120-12-7	Anthracene	1600	U
86-74-8	Carbazole	1600	U
84-74-2	Di-n-Butylphthalate	1600 ~~410~~	~~BJ~~ U am
206-44-0	Fluoranthene	560	J
129-00-0	Pyrene	600	J
85-68-7	Butylbenzylphthalate	1600	U
91-94-1	3,3'-Dichlorobenzidine	3100	UJ
56-55-3	Benzo(a)Anthracene	1600	U
218-01-9	Chrysene	1600	U
117-81-7	bis(2-Ethylhexyl)Phthalate	1600	UJ
117-84-0	Di-n-Octyl Phthalate	1600	U
205-99-2	Benzo(b)Fluoranthene	390	J
207-08-9	Benzo(k)Fluoranthene	370	J
50-32-8	Benzo(a)Pyrene	370	J
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	1600	U

(1) - Cannot be separated from Diphenylamine

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101DL

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217188

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

% Moisture: 17 decanted: (Y/N) N Date Received: 05/14/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/22/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/09/92

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	20	U
319-85-7	beta-BHC	20	U
319-86-8	delta-BHC	20	U
58-89-9	gamma-BHC (Lindane)	20	U
76-44-8	Heptachlor	20	U
309-00-2	Aldrin	20	U
1024-57-3	Heptachlor epoxide	20	U
959-98-8	Endosulfan I	20	U
60-57-1	Dieldrin	40	U
72-55-9	4,4'-DDE	40	U
72-20-8	Endrin	40	U
33213-65-9	Endosulfan II	40	U
72-54-8	4,4'-DDD	40	U
1031-07-8	Endosulfan sulfate	40	U
50-29-3	4,4'-DDT	40	U
72-43-5	Methoxychlor	200	U
53494-70-5	Endrin ketone	40	U
7421-36-3	Endrin aldehyde	40	U
5103-71-9	alpha-Chlordane	20	U
5103-74-2	gamma-Chlordane	20	U
8001-35-2	Toxaphene	2000	U
12674-11-2	Aroclor-1016	400	U
11104-28-2	Aroclor-1221	800	U
11141-16-5	Aroclor-1232	400	U
53469-21-9	Aroclor-1242	400	U
12672-29-6	Aroclor-1248	400	U
11097-69-1	Aroclor-1254	400	U
11096-82-5	Aroclor-1260	400	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217188

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0519LC04

Level: (low/med) LOW Date Received: 05/14/92

% Moisture: not dec. 16 Date Analyzed: 05/19/92

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

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217188

Sample wt/vol: 30.2 (g/mL) G Lab File ID: B0629W04

Level: (low/med) LOW Date Received: 05/14/92

% Moisture: 16 decanted: (Y/N) N Date Extracted: 05/19/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/29/92

Injection Volume: 2.0 (uL) Dilution Factor: 4.0

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

Number TICs found: 9

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1.	UNKNOWN ALIPHATIC KETONE	9.10	97000	~~BAd~~ U	am
2.	UNKNOWN ETHENYLBENZENE	10.35	1500	J	
3.	UNKNOWN	10.89	1500	~~BC~~ U	am
4.	UNKNOWN ALIPHATIC KETONE	11.60	2700	~~BAd~~ U	am
5.	UNKNOWN	12.60	4900	J	
6.	UNKNOWN	13.89	4300	~~BC~~ U	am
7.	UNKNOWN ALIP. HYDROCARBON	24.64	1400	J	
8.	UNKNOWN	34.79	2000	J	
9.	UNKNOWN	34.91	2900	J	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217189

Sample wt/vol: 1.0 (g/mL) G Lab File ID: A0522BK04

Level: (low/med) MED Date Received: 05/14/92

% Moisture: not dec. ____ Date Analyzed: 05/22/92

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

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	4800	UJ
74-83-9	Bromomethane	4800	UJ
75-01-4	Vinyl Chloride	4800	UJ
75-00-3	Chloroethane	4800	U
75-09-2	Methylene Chloride	2000	J
67-64-1	Acetone	4800	UJ
75-15-0	Carbon Disulfide	4800	U
75-35-4	1,1-Dichloroethene	4800	U
75-34-3	1,1-Dichloroethane	4800	U
540-59-0	1,2-Dichloroethene (total)	4800	U
67-66-3	Chloroform	4800	U
107-06-2	1,2-Dichloroethane	4800	U
78-93-3	2-Butanone	4800	U
71-55-6	1,1,1-Trichloroethane	4800	U
56-23-5	Carbon Tetrachloride	4800	U
75-27-4	Bromodichloromethane	4800	U
78-87-5	1,2-Dichloropropane	4800	U
10061-01-5	cis-1,3-Dichloropropene	4800	U
79-01-6	Trichloroethene	4800	U
124-48-1	Dibromochloromethane	4800	U
79-00-5	1,1,2-Trichloroethane	4800	U
71-43-2	Benzene	4800	U
10061-02-6	trans-1,3-Dichloropropene	4800	U
75-25-2	Bromoform	4800	U
108-10-1	4-Methyl-2-Pentanone	4800	U
591-78-6	2-Hexanone	4800	U
127-18-4	Tetrachloroethene	4800	U
79-34-5	1,1,2,2-Tetrachloroethane	4800	U
108-88-3	Toluene	4800	U
108-90-7	Chlorobenzene	4800	U
100-41-4	Ethylbenzene	4800	U
100-42-5	Styrene	4800	U
1330-20-7	Xylene (total)	4800	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217189

Sample wt/vol: 1.0 (g/mL) G Lab File ID: B0630W04

Level: (low/med) MED Date Received: 05/14/92

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/20/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/30/92

Injection Volume: 2.0 (uL) Dilution Factor: 40.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	400000	U
111-44-4	bis(2-Chloroethyl)Ether	400000	U
95-57-8	2-Chlorophenol	400000	U
541-73-1	1,3-Dichlorobenzene	400000	U
106-46-7	1,4-Dichlorobenzene	400000	U
95-50-1	1,2-Dichlorobenzene	400000	U
95-48-7	2-Methylphenol	400000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400000	U
106-44-5	4-Methylphenol	400000	U
621-64-7	N-Nitroso-Di-n-Propylamine	400000	U
67-72-1	Hexachloroethane	400000	U
98-95-3	Nitrobenzene	400000	U
78-59-1	Isophorone	400000	U
88-75-5	2-Nitrophenol	400000	U
105-67-9	2,4-Dimethylphenol	400000	U
111-91-1	bis(2-Chloroethoxy)Methane	400000	U
120-83-2	2,4-Dichlorophenol	400000	U
120-82-1	1,2,4-Trichlorobenzene	400000	U
91-20-3	Naphthalene	400000	U
106-47-8	4-Chloroaniline	400000	UJ
87-68-3	Hexachlorobutadiene	400000	U
59-50-7	4-Chloro-3-Methylphenol	400000	U
91-57-6	2-Methylnaphthalene	220000	J
77-47-4	Hexachlorocyclopentadiene	400000	U
88-06-2	2,4,6-Trichlorophenol	400000	U
95-95-4	2,4,5-Trichlorophenol	1000000	U
91-58-7	2-Chloronaphthalene	400000	U
88-74-4	2-Nitroaniline	1000000	U
131-11-3	Dimethylphthalate	400000	U
208-96-8	Acenaphthylene	400000	U
606-20-2	2,6-Dinitrotoluene	400000	U
99-09-2	3-Nitroaniline	1000000	UJ
83-32-9	Acenaphthene	400000	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217189

Sample wt/vol: 1.0 (g/mL) G Lab File ID: B0630W04

Level: (low/med) MED Date Received: 05/14/92

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/20/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/30/92

Injection Volume: 2.0(uL) Dilution Factor: 40.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000000	U
100-02-7	4-Nitrophenol	1000000	U
132-64-9	Dibenzofuran	400000	U
121-14-2	2,4-Dinitrotoluene	400000	U
84-66-2	Diethylphthalate	400000	U
7005-72-3	4-Chlorophenyl-phenylether	400000	U
86-73-7	Fluorene	400000	U
100-10-6	4-Nitroaniline	1000000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000000	U
86-30-6	N-Nitrosodiphenylamine (1)	400000	U
101-55-3	4-Bromophenyl-phenylether	400000	U
118-74-1	Hexachlorobenzene	400000	U
87-86-5	Pentachlorophenol	1000000	U
85-01-8	Phenanthrene	200000	J
120-12-7	Anthracene	400000	U
86-74-8	Carbazole	400000	U
84-74-2	Di-n-Butylphthalate	400000	U
206-44-0	Fluoranthene	400000	U
129-00-0	Pyrene	120000	J
85-68-7	Butylbenzylphthalate	400000	U
91-94-1	3,3'-Dichlorobenzidine	1600000	UJ
56-55-3	Benzo(a)Anthracene	400000	U
218-01-9	Chrysene	400000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	400000	U
117-84-0	Di-n-Octyl Phthalate	400000	UJ
205-99-2	Benzo(b)Fluoranthene	400000	U
207-08-9	Benzo(k)Fluoranthene	400000	UJ
50-32-8	Benzo(a)Pyrene	400000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	400000	U
53-70-3	Dibenz(a,h)Anthracene	400000	U
191-24-2	Benzo(g,h,i)Perylene	400000	U

(1) - Cannot be separated from Diphenylamine

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102DL

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217189

Sample wt/vol: 1.1 (g/mL) G Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N Date Received: 05/14/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/09/92

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 0.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	450	U
319-85-7	beta-BHC	450	U
319-86-8	delta-BHC	450	U
58-89-9	gamma-BHC (Lindane)	450	U
76-44-8	Heptachlor	450	U
309-00-2	Aldrin	450	U
1024-57-3	Heptachlor epoxide	450	U
959-98-8	Endosulfan I	450	U
60-57-1	Dieldrin	1800	P
72-55-9	4,4'-DDE	870	U
72-20-8	Endrin	870	U
33213-65-9	Endosulfan II	1700	P
72-54-8	4,4'-DDD	870	U
1031-07-8	Endosulfan sulfate	870	U
50-29-3	4,4'-DDT	870	U
72-43-5	Methoxychlor	4500	U
53494-70-5	Endrin ketone	870	U
7421-36-3	Endrin aldehyde	870	U
5103-71-9	alpha-Chlordane	450	U
5103-74-2	gamma-Chlordane	450	U
8001-35-2	Toxaphene	45000	U
12674-11-2	Aroclor-1016	8700	U
11104-28-2	Aroclor-1221	18000	U
11141-16-5	Aroclor-1232	8700	U
53469-21-9	Aroclor-1242	8700	U
12672-29-6	Aroclor-1248	8700	U
11097-69-1	Aroclor-1254	8700	U
11096-82-5	Aroclor-1260	8700	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217189

Sample wt/vol: 1.0 (g/mL) G Lab File ID: A0522BK04

Level: (low/med) MED Date Received: 05/14/92

% Moisture: not dec. _____ Date Analyzed: 05/22/92

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

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217189

Sample wt/vol: 1.0 (g/mL) G Lab File ID: B0630W04

Level: (low/med) MED Date Received: 05/14/92

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/20/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/30/92

Injection Volume: 2.0(uL) Dilution Factor: 40.0

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

Number TICs found: 26

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN ALIP. HYDROCARBON	18.10	2100000	J
2.	UNKNOWN ALIP. HYDROCARBON	18.55	6400000	J
3.	UNKNOWN ALIP. HYDROCARBON	19.44	1700000	J
4.	UNKNOWN ALIP. HYDROCARBON	19.52	610000	J
5.	UNKNOWN ALIP. HYDROCARBON	19.62	1000000	J
6.	UNKNOWN ALIP. HYDROCARBON	20.20	10000000	J
7.	UNKNOWN ALIP. HYDROCARBON	20.35	690000	J
8.	UNKNOWN	20.44	560000	J
9.	UNKNOWN DIMETHYLNAPHTHALENE	20.65	470000	J
10.	UNKNOWN DIMETHYLNAPHTHALENE	20.90	700000	J
11.	UNKNOWN DIMETHYLNAPHTHALENE	20.97	430000	J
12.	UNKNOWN ALIP. HYDROCARBON	21.00	540000	J
13.	UNKNOWN ALIP. HYDROCARBON	21.10	1600000	J
14.	UNKNOWN ALIP. HYDROCARBON	21.17	4400000	J
15.	UNKNOWN ALIP. HYDROCARBON	21.29	860000	J
16.	UNKNOWN	21.40	160000	J
17.	UNKNOWN ALIP. HYDROCARBON	21.47	350000	J
18.	UNKNOWN ALIP. HYDROCARBON	21.74	9200000	J
19.	UNKNOWN	21.84	800000	J
20.	UNKNOWN ALIP. HYDROCARBON	22.40	920000	J
21.	UNKNOWN ALIP. HYDROCARBON	22.54	1500000	J
22.	UNKNOWN ALIP. HYDROCARBON	22.65	1300000	J
23.	UNKNOWN ALIP. HYDROCARBON	22.72	330000	J
24.	UNKNOWN ALIP. HYDROCARBON	23.19	4500000	J
25.	UNKNOWN ALIP. HYDROCARBON	23.85	1300000	J
26.	UNKNOWN ALIP. HYDROCARBON	24.55	1400000	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217190

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0519LC08

Level: (low/med) LOW Date Received: 05/14/92

% Moisture: not dec. 49 Date Analyzed: 05/19/92

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	20	UJ
74-83-9	Bromomethane	20	U
75-01-4	Vinyl Chloride	20	U
75-00-3	Chloroethane	20	UJ
75-09-2	Methylene Chloride	36	~~B~~U am
67-64-1	Acetone	25	~~B~~U am
75-15-0	Carbon Disulfide	20	U
75-35-4	1,1-Dichloroethene	20	U
75-34-3	1,1-Dichloroethane	20	U
540-59-0	1,2-Dichloroethene (total)	20	U
67-66-3	Chloroform	20	U
107-06-2	1,2-Dichloroethane	20	U
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	20	U
56-23-5	Carbon Tetrachloride	20	U
75-27-4	Bromodichloromethane	20	U
78-87-5	1,2-Dichloropropane	20	U
10061-01-5	cis-1,3-Dichloropropene	20	U
79-01-6	Trichloroethene	20	U
124-48-1	Dibromochloromethane	20	U
79-00-5	1,1,2-Trichloroethane	20	U
71-43-2	Benzene	20	U
10061-02-6	trans-1,3-Dichloropropene	20	U
75-25-2	Bromoform	20	U
108-10-1	4-Methyl-2-Pentanone	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	20	U
79-34-5	1,1,2,2-Tetrachloroethane	20	U
108-88-3	Toluene	20	U
108-90-7	Chlorobenzene	20	U
100-41-4	Ethylbenzene	20	U
100-42-5	Styrene	20	U
1330-20-7	Xylene (total)	20	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217190

Sample wt/vol: 30.1 (g/mL) G Lab File ID: B0629W05

Level: (low/med) LOW Date Received: 05/14/92

% Moisture: 49 decanted: (Y/N) N Date Extracted: 05/19/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/29/92

Injection Volume: 2.0(uL) Dilution Factor: 4.0

GPC Cleanup: (Y/N) Y pH: 6.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	2600	U
111-44-4	bis(2-Chloroethyl)Ether	2600	U
95-57-8	2-Chlorophenol	2600	U
541-73-1	1,3-Dichlorobenzene	2600	U
106-46-7	1,4-Dichlorobenzene	2600	U
95-50-1	1,2-Dichlorobenzene	2600	U
95-48-7	2-Methylphenol	2600	U
108-60-1	2,2'-oxybis(1-Chloropropane)	2600	U
106-44-5	4-Methylphenol	2600	U
621-64-7	N-Nitroso-Di-n-Propylamine	2600	U
67-72-1	Hexachloroethane	2600	U
98-95-3	Nitrobenzene	2600	U
78-59-1	Isophorone	2600	U
88-75-5	2-Nitrophenol	2600	U
105-67-9	2,4-Dimethylphenol	2600	U
111-91-1	bis(2-Chloroethoxy)Methane	2600	U
120-83-2	2,4-Dichlorophenol	2600	U
120-82-1	1,2,4-Trichlorobenzene	2600	U
91-20-3	Naphthalene	2600	U
106-47-8	4-Chloroaniline	2600	UJ
87-68-3	Hexachlorobutadiene	2600	U
59-50-7	4-Chloro-3-Methylphenol	2600	U
91-57-6	2-Methylnaphthalene	2600	U
77-47-4	Hexachlorocyclopentadiene	2600	U
88-06-2	2,4,6-Trichlorophenol	2600	U
95-95-4	2,4,5-Trichlorophenol	6300	U
91-58-7	2-Chloronaphthalene	2600	U
88-74-4	2-Nitroaniline	6300	U
131-11-3	Dimethylphthalate	2600	U
208-96-8	Acenaphthylene	2600	U
606-20-2	2,6-Dinitrotoluene	2600	U
99-09-2	3-Nitroaniline	6300	UJ
83-32-9	Acenaphthene	2600	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217190

Sample wt/vol: 30.1 (g/mL) G Lab File ID: B0629W05

Level: (low/med) LOW Date Received: 05/14/92

% Moisture: 49 decanted: (Y/N) N Date Extracted: 05/19/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/29/92

Injection Volume: 2.0 (uL) Dilution Factor: 4.0

GPC Cleanup: (Y/N) Y pH: 6.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	6300	U
100-02-7	4-Nitrophenol	6300	U
132-64-9	Dibenzofuran	2600	U
121-14-2	2,4-Dinitrotoluene	2600	U
84-66-2	Diethylphthalate	2600	U
7005-72-3	4-Chlorophenyl-phenylether	2600	U
86-73-7	Fluorene	2600	U
100-10-6	4-Nitroaniline	6300	U
534-52-1	4,6-Dinitro-2-methylphenol	6300	U
86-30-6	N-Nitrosodiphenylamine (1)	2600	U
101-55-3	4-Bromophenyl-phenylether	2600	U
118-74-1	Hexachlorobenzene	2600	U
87-86-5	Pentachlorophenol	6300	U
85-01-8	Phenanthrene	2100	J
120-12-7	Anthracene	2600	U
86-74-8	Carbazole	2600	U
84-74-2	Di-n-Butylphthalate	2600	U
206-44-0	Fluoranthene	1900	J
129-00-0	Pyrene	2400	J
85-68-7	Butylbenzylphthalate	2600	U
91-94-1	3,3'-Dichlorobenzidine	5200	UJ
56-55-3	Benzo(a)Anthracene	1200	J
218-01-9	Chrysene	1100	J
117-81-7	bis(2-Ethylhexyl)Phthalate	2600	UJ
117-84-0	Di-n-Octyl Phthalate	2600	U
205-99-2	Benzo(b)Fluoranthene	1600	J
207-08-9	Benzo(k)Fluoranthene	2600	U
50-32-8	Benzo(a)Pyrene	960	J
193-39-5	Indeno(1,2,3-cd)Pyrene	1100	J
53-70-3	Dibenz(a,h)Anthracene	2600	U
191-24-2	Benzo(g,h,i)Perylene	2600	U

(1) - Cannot be separated from Diphenylamine

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103DL

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217190

Sample wt/vol: 30.2 (g/mL) G Lab File ID: _____

% Moisture: 49 decanted: (Y/N) N Date Received: 05/14/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/22/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/09/92

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 6.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	33	U
319-85-7	beta-BHC	33	U
319-86-8	delta-BHC	33	U
58-89-9	gamma-BHC (Lindane)	33	U
76-44-8	Heptachlor	33	U
309-00-2	Aldrin	24	JD
1024-57-3	Heptachlor epoxide	33	U
959-98-8	Endosulfan I	33	U
60-57-1	Dieldrin	64	U
72-55-9	4,4'-DDE	25	JPD
72-20-8	Endrin	47	JPD
33213-65-9	Endosulfan II	36	JPD
72-54-8	4,4'-DDD	64	U
1031-07-8	Endosulfan sulfate	64	U
50-29-3	4,4'-DDT	13	JPD
72-43-5	Methoxychlor	330	U
53494-70-5	Endrin ketone	64	U
7421-36-3	Endrin aldehyde	64	U
5103-71-9	alpha-Chlordane	33	U
5103-74-2	gamma-Chlordane	33	U
8001-35-2	Toxaphene	3300	U
12674-11-2	Aroclor-1016	640	U
11104-28-2	Aroclor-1221	1300	U
11141-16-5	Aroclor-1232	640	U
53469-21-9	Aroclor-1242	640	U
12672-29-6	Aroclor-1248	440	JPD
11097-69-1	Aroclor-1254	710	PD
11096-82-5	Aroclor-1260	530	JPD

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217190

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0519LC08

Level: (low/med) LOW Date Received: 05/14/92

% Moisture: not dec. 49 Date Analyzed: 05/19/92

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

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217190

Sample wt/vol: 30.1 (g/mL) G Lab File ID: B0629W05

Level: (low/med) LOW Date Received: 05/14/92

% Moisture: 49 decanted: (Y/N) N Date Extracted: 05/19/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/29/92

Injection Volume: 2.0 (uL) Dilution Factor: 4.0

GPC Cleanup: (Y/N) Y pH: 6.5

Number TICs found: 17

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIPHATIC KETONE	9.15	150000	~~BJ~~ U
2.	UNKNOWN	10.92	2700	~~BJ~~ U
3.	UNKNOWN ALIPHATIC KETONE	11.64	4300	~~BJ~~ U
4.	UNKNOWN	12.64	13000	J
5.	UNKNOWN ALIP. HYDROCARBON	23.19	2300	J
6.	UNKNOWN ALIP. HYDROCARBON	24.57	3100	J
7.	UNKNOWN ALIP. HYDROCARBON	24.65	2400	J
8.	UNKNOWN ALIP. HYDROCARBON	25.89	3200	J
9.	UNKNOWN ALIP. HYDROCARBON	27.12	3200	J
10.	UNKNOWN PNA	27.76	1400	J
11.	UNKNOWN ALIP. HYDROCARBON	32.61	4100	J
12.	UNKNOWN ALIP. HYDROCARBON	33.59	7500	J
13.	UNKNOWN ALIP. HYDROCARBON	34.61	9200	J
14.	UNKNOWN ALIP. HYDROCARBON	35.77	11000	J
15.	UNKNOWN ALIP. HYDROCARBON	37.14	11000	J
16.	UNKNOWN ALIP. HYDROCARBON	38.74	21000	J
17.	UNKNOWN ALIP. HYDROCARBON	40.67	12000	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217191

Sample wt/vol: 1.0 (g/mL) G Lab File ID: A0520BK06

Level: (low/med) MED Date Received: 05/14/92

% Moisture: not dec. ____ Date Analyzed: 05/20/92

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

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	4800	U
74-83-9	Bromomethane	4800	U
75-01-4	Vinyl Chloride	4800	U
75-00-3	Chloroethane	4800	U
75-09-2	Methylene Chloride	4800 ~~1000~~	~~BJ~~ U
67-64-1	Acetone	4800	UJ
75-15-0	Carbon Disulfide	4800	U
75-35-4	1,1-Dichloroethene	4800	U
75-34-3	1,1-Dichloroethane	4800	U
540-59-0	1,2-Dichloroethene (total)	4800	U
67-66-3	Chloroform	4800	U
107-06-2	1,2-Dichloroethane	4800	U
78-93-3	2-Butanone	4800	U
71-55-6	1,1,1-Trichloroethane	4800	U
56-23-5	Carbon Tetrachloride	4800	U
75-27-4	Bromodichloromethane	4800	U
78-87-5	1,2-Dichloropropane	4800	U
10061-01-5	cis-1,3-Dichloropropene	4800	U
79-01-6	Trichloroethene	4800	U
124-48-1	Dibromochloromethane	4800	U
79-00-5	1,1,2-Trichloroethane	4800	U
71-43-2	Benzene	4800	U
10061-02-6	trans-1,3-Dichloropropene	4800	U
75-25-2	Bromoform	4800	UJ
108-10-1	4-Methyl-2-Pentanone	4800	U
591-78-6	2-Hexanone	4800	U
127-18-4	Tetrachloroethene	4800	U
79-34-5	1,1,2,2-Tetrachloroethane	4800	U
108-88-3	Toluene	4800	U
108-90-7	Chlorobenzene	4800	U
100-41-4	Ethylbenzene	4800	U
100-42-5	Styrene	4800	U
1330-20-7	Xylene (total)	2000	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217191

Sample wt/vol: 1.2 (g/mL) G Lab File ID: B0630W05

Level: (low/med) MED Date Received: 05/14/92

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/20/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/30/92

Injection Volume: 2.0 (uL) Dilution Factor: 60.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	500000	U
111-44-4	bis(2-Chloroethyl)Ether	500000	U
95-57-8	2-Chlorophenol	500000	U
541-73-1	1,3-Dichlorobenzene	500000	U
106-46-7	1,4-Dichlorobenzene	500000	U
95-50-1	1,2-Dichlorobenzene	500000	U
95-48-7	2-Methylphenol	500000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	500000	U
106-44-5	4-Methylphenol	500000	U
621-64-7	N-Nitroso-Di-n-Propylamine	500000	U
67-72-1	Hexachloroethane	500000	U
98-95-3	Nitrobenzene	500000	U
78-59-1	Isophorone	500000	U
88-75-5	2-Nitrophenol	500000	U
105-67-9	2,4-Dimethylphenol	500000	U
111-91-1	bis(2-Chloroethoxy)Methane	500000	U
120-83-2	2,4-Dichlorophenol	500000	U
120-82-1	1,2,4-Trichlorobenzene	500000	U
91-20-3	Naphthalene	500000	U
106-47-8	4-Chloroaniline	500000	UJ
87-68-3	Hexachlorobutadiene	500000	U
59-50-7	4-Chloro-3-Methylphenol	500000	U
91-57-6	2-Methylnaphthalene	130000	J
77-47-4	Hexachlorocyclopentadiene	500000	U
88-06-2	2,4,6-Trichlorophenol	500000	U
95-95-4	2,4,5-Trichlorophenol	1200000	U
91-58-7	2-Chloronaphthalene	500000	U
88-74-4	2-Nitroaniline	1200000	U
131-11-3	Dimethylphthalate	500000	U
208-96-8	Acenaphthylene	500000	U
606-20-2	2,6-Dinitrotoluene	500000	U
99-09-2	3-Nitroaniline	1200000	UJ
83-32-9	Acenaphthene	500000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217191

Sample wt/vol: 1.2 (g/mL) G Lab File ID: B0630W05

Level: (low/med) MED Date Received: 05/14/92

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/20/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/30/92

Injection Volume: 2.0 (uL) Dilution Factor: 60.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200000	U
100-02-7	4-Nitrophenol	1200000	U
132-64-9	Dibenzofuran	500000	U
121-14-2	2,4-Dinitrotoluene	500000	U
84-66-2	Diethylphthalate	500000	U
7005-72-3	4-Chlorophenyl-phenylether	500000	U
86-73-7	Fluorene	500000	U
100-10-6	4-Nitroaniline	1200000	U
534-52-1	4,6-Dinitro-2-methylphenol	1200000	U
86-30-6	N-Nitrosodiphenylamine (1)	500000	U
101-55-3	4-Bromophenyl-phenylether	500000	U
118-74-1	Hexachlorobenzene	500000	U
87-86-5	Pentachlorophenol	1200000	U
85-01-8	Phenanthrene	500000	U
120-12-7	Anthracene	500000	U
86-74-8	Carbazole	500000	U
84-74-2	Di-n-Butylphthalate	500000	U
206-44-0	Fluoranthene	500000	U
129-00-0	Pyrene	500000	U
85-68-7	Butylbenzylphthalate	500000	U
91-94-1	3,3'-Dichlorobenzidine	2000000	UJ
56-55-3	Benzo(a)Anthracene	500000	U
218-01-9	Chrysene	500000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	500000	U
117-84-0	Di-n-Octyl Phthalate	500000	UJ
205-99-2	Benzo(b)Fluoranthene	500000	U
207-08-9	Benzo(k)Fluoranthene	500000	UJ
50-32-8	Benzo(a)Pyrene	500000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	500000	U
53-70-3	Dibenz(a,h)Anthracene	500000	U
191-24-2	Benzo(g,h,i)Perylene	500000	U

(1) - Cannot be separated from Diphenylamine

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104DL

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217191

Sample wt/vol: 1.4 (g/mL) G Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N Date Received: 05/14/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/09/92

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 0.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	350	U
319-85-7	beta-BHC	350	U
319-86-8	delta-BHC	350	U
58-89-9	gamma-BHC (Lindane)	350	U
76-44-8	Heptachlor	350	U
309-00-2	Aldrin	350	U
1024-57-3	Heptachlor epoxide	350	U
959-98-8	Endosulfan I	350	U
60-57-1	Dieldrin	680	U
72-55-9	4,4'-DDE	680	U
72-20-8	Endrin	680	U
33213-65-9	Endosulfan II	680	U
72-54-8	4,4'-DDD	680	U
1031-07-8	Endosulfan sulfate	680	U
50-29-3	4,4'-DDT	680	U
72-43-5	Methoxychlor	3500	U
53494-70-5	Endrin ketone	680	U
7421-36-3	Endrin aldehyde	680	U
5103-71-9	alpha-Chlordane	350	U
5103-74-2	gamma-Chlordane	350	U
8001-35-2	Toxaphene	35000	U
12674-11-2	Aroclor-1016	6800	U
11104-28-2	Aroclor-1221	14000	U
11141-16-5	Aroclor-1232	6800	U
53469-21-9	Aroclor-1242	6800	U
12672-29-6	Aroclor-1248	6800	U
11097-69-1	Aroclor-1254	6800	U
11096-82-5	Aroclor-1260	6800	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217191

Sample wt/vol: 1.0 (g/mL) G Lab File ID: A0520BK06

Level: (low/med) MED Date Received: 05/14/92

% Moisture: not dec. ____ Date Analyzed: 05/20/92

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

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217191

Sample wt/vol: 1.2 (g/mL) G Lab File ID: B0630W05

Level: (low/med) MED Date Received: 05/14/92

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/20/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/30/92

Injection Volume: 2.0 (uL) Dilution Factor: 60.0

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

Number TICs found: 11

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN ALIP. HYDROCARBON	12.90	470000	J
2.	UNKNOWN ALIP. HYDROCARBON	14.95	1300000	J
3.	UNKNOWN	15.77	350000	J
4.	UNK. C4 SUBSTITUTED BENZENE	16.17	200000	J
5.	UNKNOWN ALIP. HYDROCARBON	18.57	1500000	J
6.	UNKNOWN ALIP. HYDROCARBON	20.20	1500000	J
7.	UNKNOWN DIMETHYLNAPHTHALENE	20.92	250000	J
8.	UNKNOWN ALIP. HYDROCARBON	21.19	330000	J
9.	UNKNOWN ALIP. HYDROCARBON	21.74	830000	J
10.	UNKNOWN ALIP. HYDROCARBON	23.19	480000	J
11.	UNKNOWN ALIPATIC ACID ESTER	32.66	380000	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217192

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0519LC05

Level: (low/med) LOW Date Received: 05/14/92

% Moisture: not dec. 11 Date Analyzed: 05/19/92

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
74-87-3	Chloromethane	11	UJ
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	UJ
75-09-2	Methylene Chloride	13	~~B~~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	3	J
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217192

Sample wt/vol: 30.2 (g/mL) G Lab File ID: B0629W06

Level: (low/med) LOW Date Received: 05/14/92

% Moisture: 11 decanted: (Y/N) N Date Extracted: 05/19/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/29/92

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	740	U
111-44-4	bis(2-Chloroethyl)Ether	740	U
95-57-8	2-Chlorophenol	740	U
541-73-1	1,3-Dichlorobenzene	740	U
106-46-7	1,4-Dichlorobenzene	740	U
95-50-1	1,2-Dichlorobenzene	740	U
95-48-7	2-Methylphenol	740	U
108-60-1	2,2'-oxybis(1-Chloropropane)	740	U
106-44-5	4-Methylphenol	740	U
621-64-7	N-Nitroso-Di-n-Propylamine	740	U
67-72-1	Hexachloroethane	740	U
98-95-3	Nitrobenzene	740	U
78-59-1	Isophorone	740	U
88-75-5	2-Nitrophenol	740	U
105-67-9	2,4-Dimethylphenol	740	U
111-91-1	bis(2-Chloroethoxy)Methane	740	U
120-83-2	2,4-Dichlorophenol	740	U
120-82-1	1,2,4-Trichlorobenzene	740	U
91-20-3	Naphthalene	740	U
106-47-8	4-Chloroaniline	740	UJ
87-68-3	Hexachlorobutadiene	740	U
59-50-7	4-Chloro-3-Methylphenol	740	U
91-57-6	2-Methylnaphthalene	740	U
77-47-4	Hexachlorocyclopentadiene	740	U
88-06-2	2,4,6-Trichlorophenol	740	U
95-95-4	2,4,5-Trichlorophenol	1800	U
91-58-7	2-Chloronaphthalene	740	U
88-74-4	2-Nitroaniline	1800	U
131-11-3	Dimethylphthalate	740	U
208-96-8	Acenaphthylene	740	U
606-20-2	2,6-Dinitrotoluene	740	U
99-09-2	3-Nitroaniline	1800	UJ
83-32-9	Acenaphthene	740	U

1C

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217192

Sample wt/vol: 30.2 (g/mL) G Lab File ID: B0629W06

Level: (low/med) LOW Date Received: 05/14/92

% Moisture: 11 decanted: (Y/N) N Date Extracted: 05/19/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/29/92

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1800	U
100-02-7	4-Nitrophenol	1800	U
132-64-9	Dibenzofuran	740	U
121-14-2	2,4-Dinitrotoluene	740	U
84-66-2	Diethylphthalate	740	U
7005-72-3	4-Chlorophenyl-phenylether	740	U
86-73-7	Fluorene	740	U
100-10-6	4-Nitroaniline	1800	U
534-52-1	4,6-Dinitro-2-methylphenol	1800	U
86-30-6	N-Nitrosodiphenylamine (1)	740	U
101-55-3	4-Bromophenyl-phenylether	740	U
118-74-1	Hexachlorobenzene	740	U
87-86-5	Pentachlorophenol	1800	U
85-01-8	Phenanthrene	740	U
120-12-7	Anthracene	740	U
86-74-8	Carbazole	740	U
84-74-2	Di-n-Butylphthalate	740 ~~210~~	~~BJ~~ U
206-44-0	Fluoranthene	740	U
129-00-0	Pyrene	740	U
85-68-7	Butylbenzylphthalate	740	U
91-94-1	3,3'-Dichlorobenzidine	1500	UJ
56-55-3	Benzo(a)Anthracene	740	U
218-01-9	Chrysene	740	U
117-81-7	bis(2-Ethylhexyl)Phthalate	740	UJ
117-84-0	Di-n-Octyl Phthalate	740	U
205-99-2	Benzo(b)Fluoranthene	740	U
207-08-9	Benzo(k)Fluoranthene	740	U
50-32-8	Benzo(a)Pyrene	740	U
193-39-5	Indeno(1,2,3-cd)Pyrene	740	U
53-70-3	Dibenz(a,h)Anthracene	740	U
191-24-2	Benzo(g,h,i)Perylene	740	U

(1) - Cannot be separated from Diphenylamine

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105DL

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217192

Sample wt/vol: 30.2 (g/mL) G Lab File ID: _____

% Moisture: 11 decanted: (Y/N) N Date Received: 05/14/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/22/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/09/92

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	19	U
319-85-7	beta-BHC	19	U
319-86-8	delta-BHC	19	U
58-89-9	gamma-BHC (Lindane)	19	U
76-44-8	Heptachlor	19	U
309-00-2	Aldrin	19	U
1024-57-3	Heptachlor epoxide	19	U
959-98-8	Endosulfan I	19	U
60-57-1	Dieldrin	37 ~~6.7~~	~~BJ~~ U am
72-55-9	4,4'-DDE	37	U
72-20-8	Endrin	37	U
33213-65-9	Endosulfan II	37	U
72-54-8	4,4'-DDD	37	U
1031-07-8	Endosulfan sulfate	37	U
50-29-3	4,4'-DDT	37	U
72-43-5	Methoxychlor	190	U
53494-70-5	Endrin ketone	37	U
7421-36-3	Endrin aldehyde	37	U
5103-71-9	alpha-Chlordane	19	U
5103-74-2	gamma-Chlordane	19	U
8001-35-2	Toxaphene	1900	U
12674-11-2	Aroclor-1016	370	U
11104-28-2	Aroclor-1221	750	U
11141-16-5	Aroclor-1232	370	U
53469-21-9	Aroclor-1242	370	U
12672-29-6	Aroclor-1248	370	U
11097-69-1	Aroclor-1254	370	U
11096-82-5	Aroclor-1260	370	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217192

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0519LC05

Level: (low/med) LOW Date Received: 05/14/92

% Moisture: not dec. 11 Date Analyzed: 05/19/92

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

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217192

Sample wt/vol: 30.2 (g/mL) G Lab File ID: B0629W06

Level: (low/med) LOW Date Received: 05/14/92

% Moisture: 11 decanted: (Y/N) N Date Extracted: 05/19/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/29/92

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.1

Number TICs found: 6

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
	UNKNOWN ALIPHATIC KETONE	9.22	51000	~~BJ~~ U	am
2.	UNKNOWN	9.57	810	~~BJ~~ U	am
3.	UNKNOWN ALIPHATIC KETONE	10.94	1100	~~BJ~~ U	am
4.	UNKNOWN	12.65	2500	J	
5.	UNKNOWN	13.95	3600	~~BJ~~ U	am
6.	UNKNOWN ALIPHATIC ACID	23.32	390	~~BJ~~ U	am

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X201

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217193

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0519LC06

Level: (low/med) LOW Date Received: 05/14/92

% Moisture: not dec. 51 Date Analyzed: 05/19/92

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	20	UJ	
74-83-9	Bromomethane	20	U	
75-01-4	Vinyl Chloride	20	U	
75-00-3	Chloroethane	20	UJ	
75-09-2	Methylene Chloride	20 ~~17~~	~~BJ~~ U	am
67-64-1	Acetone	780	~~BJ~~ E	am
75-15-0	Carbon Disulfide	20	U	
75-35-4	1,1-Dichloroethene	20	U	
75-34-3	1,1-Dichloroethane	20	U	
540-59-0	1,2-Dichloroethene (total)	20	U	
67-66-3	Chloroform	20	U	
107-06-2	1,2-Dichloroethane	20	U	
78-93-3	2-Butanone	20 ~~8~~	~~BJ~~ U	am
71-55-6	1,1,1-Trichloroethane	20	U	
56-23-5	Carbon Tetrachloride	20	U	
75-27-4	Bromodichloromethane	20	U	
78-87-5	1,2-Dichloropropane	20	U	
10061-01-5	cis-1,3-Dichloropropene	20	U	
79-01-6	Trichloroethene	20	U	
124-48-1	Dibromochloromethane	20	U	
79-00-5	1,1,2-Trichloroethane	20	U	
71-43-2	Benzene	20	U	
10061-02-6	trans-1,3-Dichloropropene	20	U	
75-25-2	Bromoform	20	U	
108-10-1	4-Methyl-2-Pentanone	20	U	
591-78-6	2-Hexanone	20	U	
127-18-4	Tetrachloroethene	20	U	
79-34-5	1,1,2,2-Tetrachloroethane	20	U	
108-88-3	Toluene	20	U	
108-90-7	Chlorobenzene	20	U	
100-41-4	Ethylbenzene	20	U	
100-42-5	Styrene	20	U	
1330-20-7	Xylene (total)	20	U	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X201DL

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217193DL

Sample wt/vol: 1.0 (g/mL) G Lab File ID: B0519GK06

Level: (low/med) LOW Date Received: 05/14/92

% Moisture: not dec. 51 Date Analyzed: 05/19/92

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	
74-87-3	Chloromethane	100	UJ	
74-83-9	Bromomethane	100	U	
75-01-4	Vinyl Chloride	100	U	
75-00-3	Chloroethane	100	UJ	
75-09-2	Methylene Chloride	100 ~~95~~	~~BDJ~~U	am
67-64-1	Acetone	1100	~~B~~D	am
75-15-0	Carbon Disulfide	100	U	
75-35-4	1,1-Dichloroethene	100	U	
75-34-3	1,1-Dichloroethane	100	U	
540-59-0	1,2-Dichloroethene (total)	100	U	
67-66-3	Chloroform	100	U	
107-06-2	1,2-Dichloroethane	100	U	
78-93-3	2-Butanone	100	U	
71-55-6	1,1,1-Trichloroethane	100	U	
56-23-5	Carbon Tetrachloride	100	U	
75-27-4	Bromodichloromethane	100	U	
78-87-5	1,2-Dichloropropane	100	U	
10061-01-5	cis-1,3-Dichloropropene	100	U	
79-01-6	Trichloroethene	100	U	
124-48-1	Dibromochloromethane	100	U	
79-00-5	1,1,2-Trichloroethane	100	U	
71-43-2	Benzene	100	U	
10061-02-6	trans-1,3-Dichloropropene	100	U	
75-25-2	Bromoform	100	U	
108-10-1	4-Methyl-2-Pentanone	100	U	
591-78-6	2-Hexanone	100	U	
127-18-4	Tetrachloroethene	100	U	
79-34-5	1,1,2,2-Tetrachloroethane	100	U	
108-88-3	Toluene	100	U	
108-90-7	Chlorobenzene	100	U	
100-41-4	Ethylbenzene	100	U	
100-42-5	Styrene	100	U	
1330-20-7	Xylene (total)	100	U	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X201

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217193

Sample wt/vol: 30.1 (g/mL) G Lab File ID: B0629W07

Level: (low/med) LOW Date Received: 05/14/92

% Moisture: 51 decanted: (Y/N) N Date Extracted: 05/19/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/29/92

Injection Volume: 2.0(uL) Dilution Factor: 6.0

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	4000	U
111-44-4	bis(2-Chloroethyl)Ether	4000	U
95-57-8	2-Chlorophenol	4000	U
541-73-1	1,3-Dichlorobenzene	4000	U
106-46-7	1,4-Dichlorobenzene	4000	U
95-50-1	1,2-Dichlorobenzene	4000	U
95-48-7	2-Methylphenol	4000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	4000	U
106-44-5	4-Methylphenol	4000	U
621-64-7	N-Nitroso-Di-n-Propylamine	4000	U
67-72-1	Hexachloroethane	4000	U
98-95-3	Nitrobenzene	4000	U
78-59-1	Isophorone	4000	U
88-75-5	2-Nitrophenol	4000	U
105-67-9	2,4-Dimethylphenol	4000	U
111-91-1	bis(2-Chloroethoxy)Methane	4000	U
120-83-2	2,4-Dichlorophenol	4000	U
120-82-1	1,2,4-Trichlorobenzene	4000	U
91-20-3	Naphthalene	4000	U
106-47-8	4-Chloroaniline	4000	UJ
87-68-3	Hexachlorobutadiene	4000	U
59-50-7	4-Chloro-3-Methylphenol	4000	U
91-57-6	2-Methylnaphthalene	4000	U
77-47-4	Hexachlorocyclopentadiene	4000	U
88-06-2	2,4,6-Trichlorophenol	4000	U
95-95-4	2,4,5-Trichlorophenol	9800	U
91-58-7	2-Chloronaphthalene	4000	U
88-74-4	2-Nitroaniline	9800	U
131-11-3	Dimethylphthalate	4000	U
208-96-8	Acenaphthylene	4000	U
606-20-2	2,6-Dinitrotoluene	4000	U
99-09-2	3-Nitroaniline	9800	UJ
83-32-9	Acenaphthene	4000	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X201

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217193

Sample wt/vol: 30.1 (g/mL) G Lab File ID: B0629W07

Level: (low/med) LOW Date Received: 05/14/92

% Moisture: 51 decanted: (Y/N) N Date Extracted: 05/19/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/29/92

Injection Volume: 2.0 (uL) Dilution Factor: 6.0

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	9800	U
100-02-7	4-Nitrophenol	9800	U
132-64-9	Dibenzofuran	4000	U
121-14-2	2,4-Dinitrotoluene	4000	U
84-66-2	Diethylphthalate	4000	U
7005-72-3	4-Chlorophenyl-phenylether	4000	U
86-73-7	Fluorene	4000	U
100-10-6	4-Nitroaniline	9800	U
534-52-1	4,6-Dinitro-2-methylphenol	9800	U
86-30-6	N-Nitrosodiphenylamine (1)	4000	U
101-55-3	4-Bromophenyl-phenylether	4000	U
118-74-1	Hexachlorobenzene	4000	U
87-86-5	Pentachlorophenol	9800	U
85-01-8	Phenanthrene	4000	U
120-12-7	Anthracene	4000	U
86-74-8	Carbazole	4000	U
84-74-2	Di-n-Butylphthalate	4000	U
206-44-0	Fluoranthene	1000	J
129-00-0	Pyrene	1100	J
85-68-7	Butylbenzylphthalate	4000	U
91-94-1	3,3'-Dichlorobenzidine	8100	UJ
56-55-3	Benzo(a)Anthracene	4000	U
218-01-9	Chrysene	4000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	4000	UJ
117-84-0	Di-n-Octyl Phthalate	4000	U
205-99-2	Benzo(b)Fluoranthene	4000	U
207-08-9	Benzo(k)Fluoranthene	4000	U
50-32-8	Benzo(a)Pyrene	4000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	4000	U
53-70-3	Dibenz(a,h)Anthracene	4000	U
191-24-2	Benzo(g,h,i)Perylene	4000	U

(1) - Cannot be separated from Diphenylamine

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X201DL

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217193

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

% Moisture: 51 decanted: (Y/N) N Date Received: 05/14/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/22/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/09/92

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

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	5.9	JPD
319-85-7	beta-BHC	35	U
319-86-8	delta-BHC	35	U
58-89-9	gamma-BHC (Lindane)	35	U
76-44-8	Heptachlor	35	U
309-00-2	Aldrin	35	U
1024-57-3	Heptachlor epoxide	35	U
959-98-8	Endosulfan I	35	U
60-57-1	Dieldrin	67	U
72-55-9	4,4'-DDE	67	U
72-20-8	Endrin	12	JD
33213-65-9	Endosulfan II	67	U
72-54-8	4,4'-DDD	67	U
1031-07-8	Endosulfan sulfate	67	U
50-29-3	4,4'-DDT	35	JPD
72-43-5	Methoxychlor	350	U
53494-70-5	Endrin ketone	67	U
7421-36-3	Endrin aldehyde	67	U
5103-71-9	alpha-Chlordane	23	JPD
5103-74-2	gamma-Chlordane	15	JPD
8001-35-2	Toxaphene	3500	U
12674-11-2	Aroclor-1016	670	U
11104-28-2	Aroclor-1221	1400	U
11141-16-5	Aroclor-1232	670	U
53469-21-9	Aroclor-1242	670	U
12672-29-6	Aroclor-1248	670	U
11097-69-1	Aroclor-1254	670	U
11096-82-5	Aroclor-1260	250	JPD

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X201

ab Name: ILLINOIS EPA Contract: 0990305026

ab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

atrix: (soil/water) SOIL Lab Sample ID: D217193

ample wt/vol: 5.0 (g/mL) G Lab File ID: B0519LC06

evel: (low/med) LOW Date Received: 05/14/92

Moisture: not dec. 51 Date Analyzed: 05/19/92

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

oil 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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X201DL

ab Name: ILLINOIS EPA Contract: 0990305026

ab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

atrix: (soil/water) SOIL Lab Sample ID: D217193DL

ample wt/vol: 1.0 (g/mL) G Lab File ID: B0519GK06

evel: (low/med) LOW Date Received: 05/14/92

Moisture: not dec. 51 Date Analyzed: 05/19/92

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

oil 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

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X201

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217193

Sample wt/vol: 30.1 (g/mL) G Lab File ID: B0629W07

Level: (low/med) LOW Date Received: 05/14/92

% Moisture: 51 decanted: (Y/N) N Date Extracted: 05/19/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/29/92

Injection Volume: 2.0 (uL) Dilution Factor: 6.0

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

Number TICs found: 4

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
	UNKNOWN ALIPHATIC KETONE	9.12	160000	~~BJ~~ U	am
2.	UNKNOWN	10.92	2600	~~BJ~~ U	am
3.	UNKNOWN	12.64	11000	J	
4.	UNKNOWN	13.92	5500	~~BJ~~ U	am

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X202RE

ab Name: ILLINOIS EPA Contract: 0990305026

ab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

atrix: (soil/water) SOIL Lab Sample ID: D217194RE

ample wt/vol: 5.0 (g/mL) G Lab File ID: B0519GK04

evel: (low/med) LOW Date Received: 05/14/92

Moisture: not dec. 59 Date Analyzed: 05/19/92

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/KG	Q	
74-87-3	Chloromethane	24	UJ	
74-83-9	Bromomethane	24	U	
75-01-4	Vinyl Chloride	24	U	
75-00-3	Chloroethane	24	UJ	
75-09-2	Methylene Chloride	24 ~~25~~	~~BJ~~ u	am
67-64-1	Acetone	330	~~B~~	am
75-15-0	Carbon Disulfide	24	U	
75-35-4	1,1-Dichloroethene	24	U	
75-34-3	1,1-Dichloroethane	24	U	
540-59-0	1,2-Dichloroethene (total)	24	U	
67-66-3	Chloroform	24	U	
107-06-2	1,2-Dichloroethane	24	U	
78-93-3	2-Butanone	48	~~B~~ u	am
71-55-6	1,1,1-Trichloroethane	24	U	
56-23-5	Carbon Tetrachloride	24	U	
75-27-4	Bromodichloromethane	24	U	
78-87-5	1,2-Dichloropropane	24	U	
10061-01-5	cis-1,3-Dichloropropene	24	U	
79-01-6	Trichloroethene	24	U	
124-48-1	Dibromochloromethane	24	U	
79-00-5	1,1,2-Trichloroethane	24	U	
71-43-2	Benzene	24	U	
10061-02-6	trans-1,3-Dichloropropene	24	U	
75-25-2	Bromoform	24	U	
108-10-1	4-Methyl-2-Pentanone	24	U	
591-78-6	2-Hexanone	24	U	
127-18-4	Tetrachloroethene	24	U	
79-34-5	1,1,2,2-Tetrachloroethane	24	U	
108-88-3	Toluene	24	U	
108-90-7	Chlorobenzene	24	U	
100-41-4	Ethylbenzene	24	U	
100-42-5	Styrene	24	U	
1330-20-7	Xylene (total)	24	U	

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X202

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217194

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0629W08

Level: (low/med) LOW Date Received: 05/14/92

% Moisture: 59 decanted: (Y/N) N Date Extracted: 05/19/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/29/92

Injection Volume: 2.0 (uL) Dilution Factor: 6.0

GPC Cleanup: (Y/N) Y pH: 7.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	4800	U
111-44-4	bis(2-Chloroethyl)Ether	4800	U
95-57-8	2-Chlorophenol	4800	U
541-73-1	1,3-Dichlorobenzene	4800	U
106-46-7	1,4-Dichlorobenzene	4800	U
95-50-1	1,2-Dichlorobenzene	4800	U
95-48-7	2-Methylphenol	4800	U
108-60-1	2,2'-oxybis(1-Chloropropane)	4800	U
106-44-5	4-Methylphenol	4800	U
621-64-7	N-Nitroso-Di-n-Propylamine	4800	U
67-72-1	Hexachloroethane	4800	U
98-95-3	Nitrobenzene	4800	U
78-59-1	Isophorone	4800	U
88-75-5	2-Nitrophenol	4800	U
105-67-9	2,4-Dimethylphenol	4800	U
111-91-1	bis(2-Chloroethoxy)Methane	4800	U
120-83-2	2,4-Dichlorophenol	4800	U
120-82-1	1,2,4-Trichlorobenzene	4800	U
91-20-3	Naphthalene	4800	U
106-47-8	4-Chloroaniline	4800	UJ
87-68-3	Hexachlorobutadiene	4800	U
59-50-7	4-Chloro-3-Methylphenol	4800	U
91-57-6	2-Methylnaphthalene	4800	U
77-47-4	Hexachlorocyclopentadiene	4800	U
88-06-2	2,4,6-Trichlorophenol	4800	U
95-95-4	2,4,5-Trichlorophenol	12000	U
91-58-7	2-Chloronaphthalene	4800	U
88-74-4	2-Nitroaniline	12000	U
131-11-3	Dimethylphthalate	4800	U
208-96-8	Acenaphthylene	4800	U
606-20-2	2,6-Dinitrotoluene	4800	U
99-09-2	3-Nitroaniline	12000	UJ
83-32-9	Acenaphthene	4800	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X202

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217194

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0629W08

Level: (low/med) LOW Date Received: 05/14/92

% Moisture: 59 decanted: (Y/N) N Date Extracted: 05/19/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/29/92

Injection Volume: 2.0 (uL) Dilution Factor: 6.0

GPC Cleanup: (Y/N) Y pH: 7.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	12000	U
100-02-7	4-Nitrophenol	12000	U
132-64-9	Dibenzofuran	4800	U
121-14-2	2,4-Dinitrotoluene	4800	U
84-66-2	Diethylphthalate	4800	U
7005-72-3	4-Chlorophenyl-phenylether	4800	U
86-73-7	Fluorene	4800	U
100-10-6	4-Nitroaniline	12000	U
534-52-1	4,6-Dinitro-2-methylphenol	12000	U
86-30-6	N-Nitrosodiphenylamine (1)	4800	U
101-55-3	4-Bromophenyl-phenylether	4800	U
118-74-1	Hexachlorobenzene	4800	U
87-86-5	Pentachlorophenol	12000	U
85-01-8	Phenanthrene	4800	U
120-12-7	Anthracene	4800	U
86-74-8	Carbazole	4800	U
84-74-2	Di-n-Butylphthalate	4800	U
206-44-0	Fluoranthene	4800	U
129-00-0	Pyrene	1200	J
85-68-7	Butylbenzylphthalate	4800	U
91-94-1	3,3'-Dichlorobenzidine	9700	UJ
56-55-3	Benzo(a)Anthracene	4800	U
218-01-9	Chrysene	4800	U
117-81-7	bis(2-Ethylhexyl)Phthalate	4800	UJ
117-84-0	Di-n-Octyl Phthalate	4800	U
205-99-2	Benzo(b)Fluoranthene	1200	J
207-08-9	Benzo(k)Fluoranthene	4800	U
50-32-8	Benzo(a)Pyrene	4800	U
193-39-5	Indeno(1,2,3-cd)Pyrene	4800	U
53-70-3	Dibenz(a,h)Anthracene	4800	U
191-24-2	Benzo(g,h,i)Perylene	4800	U

(1) - Cannot be separated from Diphenylamine

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X202DL

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217194

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

% Moisture: 59 decanted: (Y/N) N Date Received: 05/14/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/22/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/09/92

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	41	U
319-85-7	beta-BHC	41	U
319-86-8	delta-BHC	41	U
58-89-9	gamma-BHC (Lindane)	41	U
76-44-8	Heptachlor	41	U
309-00-2	Aldrin	41	U
1024-57-3	Heptachlor epoxide	41	U
959-98-8	Endosulfan I	41	U
60-57-1	Dieldrin	80	U
72-55-9	4,4'-DDE	80	U
72-20-8	Endrin	15	JPD
33213-65-9	Endosulfan II	80	U
72-54-8	4,4'-DDD	80	U
1031-07-8	Endosulfan sulfate	80	U
50-29-3	4,4'-DDT	20	JPD
72-43-5	Methoxychlor	410	U
53494-70-5	Endrin ketone	80	U
7421-36-3	Endrin aldehyde	80	U
5103-71-9	alpha-Chlordane	12	JPD
5103-74-2	gamma-Chlordane	41	U
8001-35-2	Toxaphene	4100	U
12674-11-2	Aroclor-1016	800	U
11104-28-2	Aroclor-1221	1600	U
11141-16-5	Aroclor-1232	800	U
53469-21-9	Aroclor-1242	800	U
12672-29-6	Aroclor-1248	800	U
11097-69-1	Aroclor-1254	300	JPD
11096-82-5	Aroclor-1260	800	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X202

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217194

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0629W08

Level: (low/med) LOW Date Received: 05/14/92

% Moisture: 59 decanted: (Y/N) N Date Extracted: 05/19/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/29/92

Injection Volume: 2.0 (uL) Dilution Factor: 6.0

GPC Cleanup: (Y/N) Y pH: 7.4

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIPHATIC KETONE	9.14	180000	~~BAJ~~ U
2.	UNKNOWN ALIP. HYDROCARBON	24.67	7800	J
3.	UNKNOWN	27.84	2400	J

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X202RE

ab Name: ILLINOIS EPA Contract: 0990305026

ab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

atrix: (soil/water) SOIL Lab Sample ID: D217194RE

ample wt/vol: 5.0 (g/mL) G Lab File ID: B0519GK04

evel: (low/med) LOW Date Received: 05/14/92

Moisture: not dec. 59 Date Analyzed: 05/19/92

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

oil 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
75-18-3	METHANE, THIOBIS-	5.87	28	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X203

ab Name: ILLINOIS EPA Contract: 0990305026

ab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

atrix: (soil/water) SOIL Lab Sample ID: D217195

ample wt/vol: 5.0 (g/mL) G Lab File ID: B0519LC07

evel: (low/med) LOW Date Received: 05/14/92

Moisture: not dec. 32 Date Analyzed: 05/19/92

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/KG

CAS NO.	COMPOUND		Q	
74-87-3	Chloromethane	15	UJ	
74-83-9	Bromomethane	15	U	
75-01-4	Vinyl Chloride	15	U	
75-00-3	Chloroethane	15	UJ	
75-09-2	Methylene Chloride	70	~~B~~ U	am
67-64-1	Acetone	15 ~~B~~	~~BJ~~ U	am
75-15-0	Carbon Disulfide	15	U	
75-35-4	1,1-Dichloroethene	15	U	
75-34-3	1,1-Dichloroethane	15	U	
540-59-0	1,2-Dichloroethene (total)	15	U	
67-66-3	Chloroform	15	U	
107-06-2	1,2-Dichloroethane	15	U	
78-93-3	2-Butanone	15	U	
71-55-6	1,1,1-Trichloroethane	15	U	
56-23-5	Carbon Tetrachloride	15	U	
75-27-4	Bromodichloromethane	15	U	
78-87-5	1,2-Dichloropropane	15	U	
10061-01-5	cis-1,3-Dichloropropene	15	U	
79-01-6	Trichloroethene	15	U	
124-48-1	Dibromochloromethane	15	U	
79-00-5	1,1,2-Trichloroethane	15	U	
71-43-2	Benzene	15	U	
10061-02-6	trans-1,3-Dichloropropene	15	U	
75-25-2	Bromoform	15	U	
108-10-1	4-Methyl-2-Pentanone	15	U	
591-78-6	2-Hexanone	15	U	
127-18-4	Tetrachloroethene	15	U	
79-34-5	1,1,2,2-Tetrachloroethane	15	U	
108-88-3	Toluene	3	J	
108-90-7	Chlorobenzene	15	U	
100-41-4	Ethylbenzene	15	U	
100-42-5	Styrene	15	U	
1330-20-7	Xylene (total)	15	U	

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X203

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217195

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0629W09

Level: (low/med) LOW Date Received: 05/14/92

% Moisture: 32 decanted: (Y/N) N Date Extracted: 05/19/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/29/92

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	4900	U
111-44-4	bis(2-Chloroethyl)Ether	4900	U
95-57-8	2-Chlorophenol	4900	U
541-73-1	1,3-Dichlorobenzene	4900	U
106-46-7	1,4-Dichlorobenzene	4900	U
95-50-1	1,2-Dichlorobenzene	4900	U
95-48-7	2-Methylphenol	4900	U
108-60-1	2,2'-oxybis(1-Chloropropane)	4900	U
106-44-5	4-Methylphenol	4900	U
621-64-7	N-Nitroso-Di-n-Propylamine	4900	U
67-72-1	Hexachloroethane	4900	U
98-95-3	Nitrobenzene	4900	U
78-59-1	Isophorone	4900	U
88-75-5	2-Nitrophenol	4900	U
105-67-9	2,4-Dimethylphenol	4900	U
111-91-1	bis(2-Chloroethoxy)Methane	4900	U
120-83-2	2,4-Dichlorophenol	4900	U
120-82-1	1,2,4-Trichlorobenzene	4900	U
91-20-3	Naphthalene	1200	J
106-47-8	4-Chloroaniline	4900	UJ
87-68-3	Hexachlorobutadiene	4900	U
59-50-7	4-Chloro-3-Methylphenol	4900	U
91-57-6	2-Methylnaphthalene	2400	J
77-47-4	Hexachlorocyclopentadiene	4900	U
88-06-2	2,4,6-Trichlorophenol	4900	U
95-95-4	2,4,5-Trichlorophenol	12000	U
91-58-7	2-Chloronaphthalene	4900	U
88-74-4	2-Nitroaniline	12000	U
131-11-3	Dimethylphthalate	4900	U
208-96-8	Acenaphthylene	4900	U
606-20-2	2,6-Dinitrotoluene	4900	U
99-09-2	3-Nitroaniline	12000	UJ
83-32-9	Acenaphthene	4900	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X203

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217195

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0629W09

Level: (low/med) LOW Date Received: 05/14/92

% Moisture: 32 decanted: (Y/N) N Date Extracted: 05/19/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/29/92

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	12000	U
100-02-7	4-Nitrophenol	12000	U
132-64-9	Dibenzofuran	4900	U
121-14-2	2,4-Dinitrotoluene	4900	U
84-66-2	Diethylphthalate	4900	U
7005-72-3	4-Chlorophenyl-phenylether	4900	U
86-73-7	Fluorene	4900	U
100-10-6	4-Nitroaniline	12000	U
534-52-1	4,6-Dinitro-2-methylphenol	12000	U
86-30-6	N-Nitrosodiphenylamine (1)	4900	U
101-55-3	4-Bromophenyl-phenylether	4900	U
118-74-1	Hexachlorobenzene	4900	U
87-86-5	Pentachlorophenol	12000	U
85-01-8	Phenanthrene	1400	J
120-12-7	Anthracene	4900	U
86-74-8	Carbazole	4900	U
84-74-2	Di-n-Butylphthalate	4900	U
206-44-0	Fluoranthene	4900	U
129-00-0	Pyrene	1000	J
85-68-7	Butylbenzylphthalate	4900	U
91-94-1	3,3'-Dichlorobenzidine	9700	UJ
56-55-3	Benzo(a)Anthracene	4900	U
218-01-9	Chrysene	4900	U
117-81-7	bis(2-Ethylhexyl)Phthalate	4900	UJ
117-84-0	Di-n-Octyl Phthalate	4900	U
205-99-2	Benzo(b)Fluoranthene	4900	U
207-08-9	Benzo(k)Fluoranthene	4900	U
50-32-8	Benzo(a)Pyrene	4900	U
193-39-5	Indeno(1,2,3-cd)Pyrene	4900	U
53-70-3	Dibenz(a,h)Anthracene	4900	U
191-24-2	Benzo(g,h,i)Perylene	4900	U

(1) - Cannot be separated from Diphenylamine

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X203DL

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217195

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

% Moisture: 32 decanted: (Y/N) N Date Received: 05/14/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/22/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/09/92

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	25	U
319-85-7	beta-BHC	25	U
319-86-8	delta-BHC	25	U
58-89-9	gamma-BHC (Lindane)	25	U
76-44-8	Heptachlor	25	U
309-00-2	Aldrin	25	U
1024-57-3	Heptachlor epoxide	25	U
959-98-8	Endosulfan I	25	U
60-57-1	Dieldrin	48	U
72-55-9	4,4'-DDE	48	U
72-20-8	Endrin	48	U
33213-65-9	Endosulfan II	48	U
72-54-8	4,4'-DDD	48	U
1031-07-8	Endosulfan sulfate	48	U
50-29-3	4,4'-DDT	48	U
72-43-5	Methoxychlor	250	U
53494-70-5	Endrin ketone	48	U
7421-36-3	Endrin aldehyde	48	U
5103-71-9	alpha-Chlordane	25	U
5103-74-2	gamma-Chlordane	25	U
8001-35-2	Toxaphene	2500	U
12674-11-2	Aroclor-1016	480	U
11104-28-2	Aroclor-1221	980	U
11141-16-5	Aroclor-1232	480	U
53469-21-9	Aroclor-1242	4000	D
12672-29-6	Aroclor-1248	480	U
11097-69-1	Aroclor-1254	480	U
11096-82-5	Aroclor-1260	480	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X203

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217195

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0519LC07

Level: (low/med) LOW Date Received: 05/14/92

% Moisture: not dec. 32 Date Analyzed: 05/19/92

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

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X203

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217195

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0629W09

Level: (low/med) LOW Date Received: 05/14/92

% Moisture: 32 decanted: (Y/N) N Date Extracted: 05/19/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/29/92

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

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

Number TICs found: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN ALIPHATIC KETONE	9.10	110000	~~BA~~ U am.
2.	UNKNOWN METHYLNAPHTHALENE	19.19	2900	J
3.	UNKNOWN DIMETHYLNAPHTHALENE	20.95	3000	J
4.	UNKNOWN ALIP. HYDROCARBON	21.22	3900	J
5.	UNKNOWN ALIP. HYDROCARBON	24.69	19000	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X401RE

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217196RE

Sample wt/vol: 1.0 (g/mL) G Lab File ID: A0522BK06

Level: (low/med) MED Date Received: 05/14/92

% Moisture: not dec. _____ Date Analyzed: 05/22/92

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

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	4800	UJ
74-83-9	Bromomethane	4800	UJ
75-01-4	Vinyl Chloride	4800	UJ
75-00-3	Chloroethane	4800	U
75-09-2	Methylene Chloride	1600	J
67-64-1	Acetone	4800	UJ
75-15-0	Carbon Disulfide	4800	U
75-35-4	1,1-Dichloroethene	4800	U
75-34-3	1,1-Dichloroethane	4800	U
540-59-0	1,2-Dichloroethene (total)	4800	U
67-66-3	Chloroform	4800	U
107-06-2	1,2-Dichloroethane	4800	U
78-93-3	2-Butanone	4800	U
71-55-6	1,1,1-Trichloroethane	4800	U
56-23-5	Carbon Tetrachloride	4800	U
75-27-4	Bromodichloromethane	4800	U
78-87-5	1,2-Dichloropropane	4800	U
10061-01-5	cis-1,3-Dichloropropene	4800	U
79-01-6	Trichloroethene	4800	U
124-48-1	Dibromochloromethane	4800	U
79-00-5	1,1,2-Trichloroethane	4800	U
71-43-2	Benzene	4800	U
10061-02-6	trans-1,3-Dichloropropene	4800	U
75-25-2	Bromoform	4800	U
108-10-1	4-Methyl-2-Pentanone	4800	U
591-78-6	2-Hexanone	4800	U
127-18-4	Tetrachloroethene	4800	U
79-34-5	1,1,2,2-Tetrachloroethane	4800	U
108-88-3	Toluene	5000	
108-90-7	Chlorobenzene	4800	U
100-41-4	Ethylbenzene	11000	
100-42-5	Styrene	4800	U
1330-20-7	Xylene (total)	48000	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X401

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217196

Sample wt/vol: 1.1 (g/mL) G Lab File ID: B0630W06

Level: (low/med) MED Date Received: 05/14/92

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/20/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/30/92

Injection Volume: 2.0 (uL) Dilution Factor: 60.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	540000	U
111-44-4	bis(2-Chloroethyl)Ether	540000	U
95-57-8	2-Chlorophenol	540000	U
541-73-1	1,3-Dichlorobenzene	540000	U
106-46-7	1,4-Dichlorobenzene	540000	U
95-50-1	1,2-Dichlorobenzene	540000	U
95-48-7	2-Methylphenol	540000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	540000	U
106-44-5	4-Methylphenol	540000	U
621-64-7	N-Nitroso-Di-n-Propylamine	540000	U
67-72-1	Hexachloroethane	540000	U
98-95-3	Nitrobenzene	540000	U
78-59-1	Isophorone	540000	U
88-75-5	2-Nitrophenol	540000	U
105-67-9	2,4-Dimethylphenol	540000	U
111-91-1	bis(2-Chloroethoxy)Methane	540000	U
120-83-2	2,4-Dichlorophenol	540000	U
120-82-1	1,2,4-Trichlorobenzene	540000	U
91-20-3	Naphthalene	170000	J
106-47-8	4-Chloroaniline	540000	UJ
87-68-3	Hexachlorobutadiene	540000	U
59-50-7	4-Chloro-3-Methylphenol	540000	U
91-57-6	2-Methylnaphthalene	930000	
77-47-4	Hexachlorocyclopentadiene	540000	U
88-06-2	2,4,6-Trichlorophenol	540000	U
95-95-4	2,4,5-Trichlorophenol	1400000	U
91-58-7	2-Chloronaphthalene	540000	U
88-74-4	2-Nitroaniline	1400000	U
131-11-3	Dimethylphthalate	540000	U
208-96-8	Acenaphthylene	540000	U
606-20-2	2,6-Dinitrotoluene	540000	U
99-09-2	3-Nitroaniline	1400000	UJ
83-32-9	Acenaphthene	540000	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X401

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217196

Sample wt/vol: 1.1 (g/mL) G Lab File ID: B0630W06

Level: (low/med) MED Date Received: 05/14/92

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/20/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/30/92

Injection Volume: 2.0(uL) Dilution Factor: 60.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1400000	U
100-02-7	4-Nitrophenol	1400000	U
132-64-9	Dibenzofuran	540000	U
121-14-2	2,4-Dinitrotoluene	540000	U
84-66-2	Diethylphthalate	540000	U
7005-72-3	4-Chlorophenyl-phenylether	540000	U
86-73-7	Fluorene	540000	U
100-10-6	4-Nitroaniline	1400000	U
534-52-1	4,6-Dinitro-2-methylphenol	1400000	U
86-30-6	N-Nitrosodiphenylamine (1)	540000	U
101-55-3	4-Bromophenyl-phenylether	540000	U
118-74-1	Hexachlorobenzene	540000	U
87-86-5	Pentachlorophenol	1400000	U
85-01-8	Phenanthrene	530000	J
120-12-7	Anthracene	540000	U
86-74-8	Carbazole	540000	U
84-74-2	Di-n-Butylphthalate	540000	U
206-44-0	Fluoranthene	540000	U
129-00-0	Pyrene	540000	U
85-68-7	Butylbenzylphthalate	540000	U
91-94-1	3,3'-Dichlorobenzidine	2200000	UJ
56-55-3	Benzo(a)Anthracene	540000	U
218-01-9	Chrysene	140000	J
117-81-7	bis(2-Ethylhexyl)Phthalate	540000	U
117-84-0	Di-n-Octyl Phthalate	540000	UJ
205-99-2	Benzo(b)Fluoranthene	180000	J
207-08-9	Benzo(k)Fluoranthene	540000	UJ
50-32-8	Benzo(a)Pyrene	540000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	200000	J
53-70-3	Dibenz(a,h)Anthracene	540000	U
191-24-2	Benzo(g,h,i)Perylene	540000	U

(1) - Cannot be separated from Diphenylamine

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X401DL

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217196

Sample wt/vol: 1.1 (g/mL) G Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N Date Received: 05/14/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/09/92

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 0.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	470	U
319-85-7	beta-BHC	470	U
319-86-8	delta-BHC	470	U
58-89-9	gamma-BHC (Lindane)	470	U
76-44-8	Heptachlor	470	U
309-00-2	Aldrin	470	U
1024-57-3	Heptachlor epoxide	470	U
959-98-8	Endosulfan I	470	U
60-57-1	Dieldrin	3100	
72-55-9	4,4'-DDE	920	U
72-20-8	Endrin	920	U
33213-65-9	Endosulfan II	920	U
72-54-8	4,4'-DDD	330	JP
1031-07-8	Endosulfan sulfate	920	U
50-29-3	4,4'-DDT	920	U
72-43-5	Methoxychlor	4700	U
53494-70-5	Endrin ketone	920	U
7421-36-3	Endrin aldehyde	920	U
5103-71-9	alpha-Chlordane	470	U
5103-74-2	gamma-Chlordane	470	U
8001-35-2	Toxaphene	47000	U
12674-11-2	Aroclor-1016	9200	U
11104-28-2	Aroclor-1221	19000	U
11141-16-5	Aroclor-1232	9200	U
53469-21-9	Aroclor-1242	9200	U
12672-29-6	Aroclor-1248	9200	U
11097-69-1	Aroclor-1254	9200	U
11096-82-5	Aroclor-1260	9200	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X401RE

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217196RE

Sample wt/vol: 1.0 (g/mL) G Lab File ID: A0522BK06

Level: (low/med) MED Date Received: 05/14/92

% Moisture: not dec. ____ Date Analyzed: 05/22/92

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

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (uL)

Number TICs found: 6

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	16.20	5600	J
2.	UNKNOWN	16.37	4800	J
3.	UNKNOWN	17.35	9000	J
4.	UNKNOWN	17.44	10000	J
5.	UNKNOWN	17.89	9300	J
6.	UNKNOWN	18.05	5300	J

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X401

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217196

Sample wt/vol: 1.1 (g/mL) G Lab File ID: B0630W06

Level: (low/med) MED Date Received: 05/14/92

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/20/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/30/92

Injection Volume: 2.0 (uL) Dilution Factor: 60.0

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

Number TICs found: 28

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN ALIP. HYDROCARBON	18.57	2700000	J
2.	UNKNOWN ALIP. HYDROCARBON	20.20	3700000	J
3.	UNKNOWN DIMETHYLNAPHTHALENE	20.92	2100000	J
4.	UNKNOWN ALIP. HYDROCARBON	21.74	5300000	J
5.	UNKNOWN ALIP. HYDROCARBON	23.19	7800000	J
6.	UNKNOWN ALIP. HYDROCARBON	23.87	3500000	J
7.	UNKNOWN ALIP. HYDROCARBON	24.59	15000000	J
8.	UNKNOWN ALIP. HYDROCARBON	24.65	6300000	J
9.	UNKNOWN ALIP. HYDROCARBON	25.16	1900000	J
10.	UNKNOWN ALIP. HYDROCARBON	25.54	1800000	J
11.	UNKNOWN ALIP. HYDROCARBON	26.02	5400000	J
12.	UNKNOWN ALIP. HYDROCARBON	26.67	760000	J
13.	UNKNOWN ALIP. HYDROCARBON	26.79	660000	J
14.	UNKNOWN	27.06	470000	J
15.	UNKNOWN ALIP. HYDROCARBON	27.14	14000000	J
16.	UNKNOWN ALIP. HYDROCARBON	27.62	1400000	J
17.	UNKNOWN PNA	27.76	1200000	J
18.	UNKNOWN PNA	27.84	1100000	J
19.	UNKNOWN ALIP. HYDROCARBON	27.89	670000	J
20.	UNKNOWN PNA	28.11	1200000	J
21.	UNKNOWN	28.14	1800000	J
22.	UNKNOWN PNA	28.17	510000	J
23.	UNKNOWN ALIP. HYDROCARBON	28.32	11000000	J
24.	UNKNOWN ALIP. HYDROCARBON	29.21	960000	J
25.	UNKNOWN ALIP. HYDROCARBON	29.47	9400000	J
26.	UNKNOWN ALIP. HYDROCARBON	31.59	6600000	J
27.	UNKNOWN ALIP. HYDROCARBON	32.61	5400000	J
28.	UNKNOWN ALIP. HYDROCARBON	33.59	4200000	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X402

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217197

Sample wt/vol: 1.0 (g/mL) G Lab File ID: A0519BK10

Level: (low/med) MED Date Received: 05/14/92

% Moisture: not dec. ____ Date Analyzed: 05/19/92

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

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	4800	UJ
74-83-9	Bromomethane	4800	U
75-01-4	Vinyl Chloride	4800	U
75-00-3	Chloroethane	4800	U
75-09-2	Methylene Chloride	4800	U
67-64-1	Acetone	4800	UJ
75-15-0	Carbon Disulfide	4800	UJ
75-35-4	1,1-Dichloroethene	4800	U
75-34-3	1,1-Dichloroethane	4800	U
540-59-0	1,2-Dichloroethene (total)	4800	U
67-66-3	Chloroform	4800	U
107-06-2	1,2-Dichloroethane	4800	U
78-93-3	2-Butanone	4800	U
71-55-6	1,1,1-Trichloroethane	4800	U
56-23-5	Carbon Tetrachloride	4800	U
75-27-4	Bromodichloromethane	4800	U
78-87-5	1,2-Dichloropropane	4800	U
10061-01-5	cis-1,3-Dichloropropene	4800	U
79-01-6	Trichloroethene	4800	U
124-48-1	Dibromochloromethane	4800	U
79-00-5	1,1,2-Trichloroethane	4800	U
71-43-2	Benzene	4800	U
10061-02-6	trans-1,3-Dichloropropene	4800	U
75-25-2	Bromoform	4800	U
108-10-1	4-Methyl-2-Pentanone	4800	U
591-78-6	2-Hexanone	4800	U
127-18-4	Tetrachloroethene	4800	U
79-34-5	1,1,2,2-Tetrachloroethane	4800	U
108-88-3	Toluene	4800	U
108-90-7	Chlorobenzene	4800	U
100-41-4	Ethylbenzene	1500	J
100-42-5	Styrene	4800	U
1330-20-7	Xylene (total)	3300	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X402

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217197

Sample wt/vol: 1.5 (g/mL) G Lab File ID: B0630W07

Level: (low/med) MED Date Received: 05/14/92

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/20/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/30/92

Injection Volume: 2.0 (uL) Dilution Factor: 40.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	270000	U
111-44-4	bis(2-Chloroethyl)Ether	270000	U
95-57-8	2-Chlorophenol	270000	U
541-73-1	1,3-Dichlorobenzene	270000	U
106-46-7	1,4-Dichlorobenzene	270000	U
95-50-1	1,2-Dichlorobenzene	270000	U
95-48-7	2-Methylphenol	270000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	270000	U
106-44-5	4-Methylphenol	270000	U
621-64-7	N-Nitroso-Di-n-Propylamine	270000	U
67-72-1	Hexachloroethane	270000	U
98-95-3	Nitrobenzene	270000	U
78-59-1	Isophorone	270000	U
88-75-5	2-Nitrophenol	270000	U
105-67-9	2,4-Dimethylphenol	270000	U
111-91-1	bis(2-Chloroethoxy)Methane	270000	U
120-83-2	2,4-Dichlorophenol	270000	U
120-82-1	1,2,4-Trichlorobenzene	270000	U
91-20-3	Naphthalene	270000	U
106-47-8	4-Chloroaniline	270000	UJ
87-68-3	Hexachlorobutadiene	270000	U
59-50-7	4-Chloro-3-Methylphenol	270000	U
91-57-6	2-Methylnaphthalene	200000	J
77-47-4	Hexachlorocyclopentadiene	270000	U
88-06-2	2,4,6-Trichlorophenol	270000	U
95-95-4	2,4,5-Trichlorophenol	670000	U
91-58-7	2-Chloronaphthalene	270000	U
88-74-4	2-Nitroaniline	670000	U
131-11-3	Dimethylphthalate	270000	U
208-96-8	Acenaphthylene	270000	U
606-20-2	2,6-Dinitrotoluene	270000	U
99-09-2	3-Nitroaniline	670000	UJ
83-32-9	Acenaphthene	270000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X402

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217197

Sample wt/vol: 1.5 (g/mL) G Lab File ID: B0630W07

Level: (low/med) MED Date Received: 05/14/92

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/20/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/30/92

Injection Volume: 2.0 (uL) Dilution Factor: 40.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	670000	U
100-02-7	4-Nitrophenol	670000	U
132-64-9	Dibenzofuran	270000	U
121-14-2	2,4-Dinitrotoluene	270000	U
84-66-2	Diethylphthalate	270000	U
7005-72-3	4-Chlorophenyl-phenylether	270000	U
86-73-7	Fluorene	270000	U
100-10-6	4-Nitroaniline	670000	U
534-52-1	4,6-Dinitro-2-methylphenol	670000	U
86-30-6	N-Nitrosodiphenylamine (1)	270000	U
101-55-3	4-Bromophenyl-phenylether	270000	U
118-74-1	Hexachlorobenzene	270000	U
87-86-5	Pentachlorophenol	670000	U
85-01-8	Phenanthrene	230000	J
120-12-7	Anthracene	270000	U
86-74-8	Carbazole	270000	U
84-74-2	Di-n-Butylphthalate	270000	U
206-44-0	Fluoranthene	270000	U
129-00-0	Pyrene	130000	J
85-68-7	Butylbenzylphthalate	270000	U
91-94-1	3,3'-Dichlorobenzidine	1100000	UJ
56-55-3	Benzo(a)Anthracene	270000	U
218-01-9	Chrysene	270000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	270000	U
117-84-0	Di-n-Octyl Phthalate	270000	UJ
205-99-2	Benzo(b)Fluoranthene	270000	U
207-08-9	Benzo(k)Fluoranthene	270000	UJ
50-32-8	Benzo(a)Pyrene	270000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	270000	U
53-70-3	Dibenz(a,h)Anthracene	270000	U
191-24-2	Benzo(g,h,i)Perylene	270000	U

(1) - Cannot be separated from Diphenylamine

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X402DL

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217197

Sample wt/vol: 1.1 (g/mL) G Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N Date Received: 05/14/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/09/92

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 0.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	460	U
319-85-7	beta-BHC	460	U
319-86-8	delta-BHC	460	U
58-89-9	gamma-BHC (Lindane)	460	U
76-44-8	Heptachlor	460	U
309-00-2	Aldrin	460	U
1024-57-3	Heptachlor epoxide	460	U
959-98-8	Endosulfan I	460	U
60-57-1	Dieldrin	2000	PD
72-55-9	4,4'-DDE	900	U
72-20-8	Endrin	900	U
33213-65-9	Endosulfan II	900	U
72-54-8	4,4'-DDD	200	JPD
1031-07-8	Endosulfan sulfate	900	U
50-29-3	4,4'-DDT	900	U
72-43-5	Methoxychlor	4600	U
53494-70-5	Endrin ketone	900	U
7421-36-3	Endrin aldehyde	900	U
5103-71-9	alpha-Chlordane	460	U
5103-74-2	gamma-Chlordane	460	U
8001-35-2	Toxaphene	24000	JPD
12674-11-2	Aroclor-1016	9000	U
11104-28-2	Aroclor-1221	18000	U
11141-16-5	Aroclor-1232	9000	U
53469-21-9	Aroclor-1242	16000	PD
12672-29-6	Aroclor-1248	9000	U
11097-69-1	Aroclor-1254	9000	U
11096-82-5	Aroclor-1260	9000	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X402

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217197

Sample wt/vol: 1.0 (g/mL) G Lab File ID: A0519BK10

Level: (low/med) MED Date Received: 05/14/92

% Moisture: not dec. ____ Date Analyzed: 05/19/92

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

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X402

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217197

Sample wt/vol: 1.5 (g/mL) G Lab File ID: B0630W07

Level: (low/med) MED Date Received: 05/14/92

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/20/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/30/92

Injection Volume: 2.0 (uL) Dilution Factor: 40.0

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

Number TICs found: 27

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. HYDROCARBON	18.15	1500000	J
2.	UNKNOWN ALIP. HYDROCARBON	18.60	4400000	J
3.	UNKNOWN ALIP. HYDROCARBON	18.92	660000	J
4.	UNKNOWN ALIP. HYDROCARBON	19.49	1200000	J
5.	UNKNOWN ALIP. HYDROCARBON	19.59	400000	J
6.	UNKNOWN ALIP. HYDROCARBON	19.65	670000	J
7.	UNKNOWN ALIP. HYDROCARBON	19.89	1700000	J
8.	UNKNOWN ALIP. HYDROCARBON	20.25	5300000	J
9.	UNKNOWN ALIP. HYDROCARBON	20.40	450000	J
10.	UNKNOWN	20.47	250000	J
11.	UNKNOWN DIMETHYLNAPHTHALENE	20.95	490000	J
12.	UNKNOWN ALIP. HYDROCARBON	20.97	670000	J
13.	UNKNOWN TRIMETHYLNAPHTHALENE	21.02	320000	J
14.	UNKNOWN ALIP. HYDROCARBON	21.07	310000	J
15.	UNKNOWN ALIP. HYDROCARBON	21.15	950000	J
16.	UNKNOWN ALIP. HYDROCARBON	21.22	2600000	J
17.	UNKNOWN ALIP. HYDROCARBON	21.35	510000	J
18.	UNKNOWN ALIP. HYDROCARBON	21.52	220000	J
19.	UNKNOWN ALIP. HYDROCARBON	21.79	5400000	J
20.	UNKNOWN	21.87	410000	J
21.	UNKNOWN ALIP. HYDROCARBON	21.90	520000	J
22.	UNKNOWN ALIP. HYDROCARBON	22.45	510000	J
23.	UNKNOWN ALIP. HYDROCARBON	22.45	530000	J
24.	UNKNOWN TRIMETHYLNAPHTHALENE	22.65	260000	J
25.	UNKNOWN ALIP. HYDROCARBON	22.70	880000	J
26.	UNKNOWN ALIP. HYDROCARBON	23.22	2600000	J
27.	UNKNOWN ALIP. HYDROCARBON	24.59	830000	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X403

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217198

Sample wt/vol: 1.0 (g/mL) G Lab File ID: A0522BK10

Level: (low/med) MED Date Received: 05/14/92

% Moisture: not dec. _____ Date Analyzed: 05/22/92

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

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	4700	UJ
74-83-9	Bromomethane	4700	UJ
75-01-4	Vinyl Chloride	4700	UJ
75-00-3	Chloroethane	4700	U
75-09-2	Methylene Chloride	1600	J
67-64-1	Acetone	4700	UJ
75-15-0	Carbon Disulfide	4700	U
75-35-4	1,1-Dichloroethene	4700	U
75-34-3	1,1-Dichloroethane	4700	U
540-59-0	1,2-Dichloroethene (total)	4700	U
67-66-3	Chloroform	4700	U
107-06-2	1,2-Dichloroethane	4700	U
78-93-3	2-Butanone	4700	U
71-55-6	1,1,1-Trichloroethane	4700	U
56-23-5	Carbon Tetrachloride	4700	U
75-27-4	Bromodichloromethane	4700	U
78-87-5	1,2-Dichloropropane	4700	U
10061-01-5	cis-1,3-Dichloropropene	4700	U
79-01-6	Trichloroethene	4700	U
124-48-1	Dibromochloromethane	4700	U
79-00-5	1,1,2-Trichloroethane	4700	U
71-43-2	Benzene	4700	U
10061-02-6	trans-1,3-Dichloropropene	4700	U
75-25-2	Bromoform	4700	U
108-10-1	4-Methyl-2-Pentanone	4700	U
591-78-6	2-Hexanone	4700	U
127-18-4	Tetrachloroethene	4700	U
79-34-5	1,1,2,2-Tetrachloroethane	4700	U
108-88-3	Toluene	3500	J
108-90-7	Chlorobenzene	4700	U
100-41-4	Ethylbenzene	17000	
100-42-5	Styrene	4700	U
1330-20-7	Xylene (total)	33000	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X403

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217198

Sample wt/vol: 1.3 (g/mL) G Lab File ID: B0630W08

Level: (low/med) MED Date Received: 05/14/92

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/20/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/30/92

Injection Volume: 2.0 (uL) Dilution Factor: 60.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	460000	U
111-44-4	bis(2-Chloroethyl)Ether	460000	U
95-57-8	2-Chlorophenol	460000	U
541-73-1	1,3-Dichlorobenzene	460000	U
106-46-7	1,4-Dichlorobenzene	460000	U
95-50-1	1,2-Dichlorobenzene	460000	U
95-48-7	2-Methylphenol	460000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	460000	U
106-44-5	4-Methylphenol	460000	U
621-64-7	N-Nitroso-Di-n-Propylamine	460000	U
67-72-1	Hexachloroethane	460000	U
98-95-3	Nitrobenzene	460000	U
78-59-1	Isophorone	460000	U
88-75-5	2-Nitrophenol	460000	U
105-67-9	2,4-Dimethylphenol	460000	U
111-91-1	bis(2-Chloroethoxy)Methane	460000	U
120-83-2	2,4-Dichlorophenol	460000	U
120-82-1	1,2,4-Trichlorobenzene	460000	U
91-20-3	Naphthalene	170000	J
106-47-8	4-Chloroaniline	460000	UJ
87-68-3	Hexachlorobutadiene	460000	U
59-50-7	4-Chloro-3-Methylphenol	460000	U
91-57-6	2-Methylnaphthalene	610000	
77-47-4	Hexachlorocyclopentadiene	460000	U
88-06-2	2,4,6-Trichlorophenol	460000	U
95-95-4	2,4,5-Trichlorophenol	1200000	U
91-58-7	2-Chloronaphthalene	460000	U
88-74-4	2-Nitroaniline	1200000	U
131-11-3	Dimethylphthalate	460000	U
208-96-8	Acenaphthylene	460000	U
606-20-2	2,6-Dinitrotoluene	460000	U
99-09-2	3-Nitroaniline	1200000	UJ
83-32-9	Acenaphthene	460000	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X403

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217198

Sample wt/vol: 1.3 (g/mL) G Lab File ID: B0630W08

Level: (low/med) MED Date Received: 05/14/92

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/20/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/30/92

Injection Volume: 2.0 (uL) Dilution Factor: 60.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200000	U
100-02-7	4-Nitrophenol	1200000	U
132-64-9	Dibenzofuran	460000	U
121-14-2	2,4-Dinitrotoluene	460000	U
84-66-2	Diethylphthalate	460000	U
7005-72-3	4-Chlorophenyl-phenylether	460000	U
86-73-7	Fluorene	460000	U
100-10-6	4-Nitroaniline	1200000	U
534-52-1	4,6-Dinitro-2-methylphenol	1200000	U
86-30-6	N-Nitrosodiphenylamine (1)	460000	U
101-55-3	4-Bromophenyl-phenylether	460000	U
118-74-1	Hexachlorobenzene	460000	U
87-86-5	Pentachlorophenol	1200000	U
85-01-8	Phenanthrene	360000	J
120-12-7	Anthracene	460000	U
86-74-8	Carbazole	460000	U
84-74-2	Di-n-Butylphthalate	460000	U
206-44-0	Fluoranthene	460000	U
129-00-0	Pyrene	190000	J
85-68-7	Butylbenzylphthalate	460000	U
91-94-1	3,3'-Dichlorobenzidine	1800000	UJ
56-55-3	Benzo(a)Anthracene	460000	U
218-01-9	Chrysene	460000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	460000	U
117-84-0	Di-n-Octyl Phthalate	460000	UJ
205-99-2	Benzo(b)Fluoranthene	460000	U
207-08-9	Benzo(k)Fluoranthene	460000	UJ
50-32-8	Benzo(a)Pyrene	460000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	460000	U
53-70-3	Dibenz(a,h)Anthracene	460000	U
191-24-2	Benzo(g,h,i)Perylene	460000	U

(1) - Cannot be separated from Diphenylamine

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X403DL

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217198

Sample wt/vol: 1.5 (g/mL) G Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N Date Received: 05/14/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/09/92

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 0.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	350	U
319-85-7	beta-BHC	350	U
319-86-8	delta-BHC	350	U
58-89-9	gamma-BHC (Lindane)	350	U
76-44-8	Heptachlor	350	U
309-00-2	Aldrin	350	U
1024-57-3	Heptachlor epoxide	350	U
959-98-8	Endosulfan I	350	U
60-57-1	Dieldrin	2400	
72-55-9	4,4'-DDE	680	U
72-20-8	Endrin	680	U
33213-65-9	Endosulfan II	680	U
72-54-8	4,4'-DDD	390	JP
1031-07-8	Endosulfan sulfate	680	U
50-29-3	4,4'-DDT	680	U
72-43-5	Methoxychlor	3500	U
53494-70-5	Endrin ketone	680	U
7421-36-3	Endrin aldehyde	680	U
5103-71-9	alpha-Chlordane	350	U
5103-74-2	gamma-Chlordane	350	U
8001-35-2	Toxaphene	35000	U
12674-11-2	Aroclor-1016	6800	U
11104-28-2	Aroclor-1221	14000	U
11141-16-5	Aroclor-1232	6800	U
53469-21-9	Aroclor-1242	6800	U
12672-29-6	Aroclor-1248	6800	U
11097-69-1	Aroclor-1254	6800	U
11096-82-5	Aroclor-1260	6800	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X403

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217198

Sample wt/vol: 1.0 (g/mL) G Lab File ID: A0522BK10

Level: (low/med) MED Date Received: 05/14/92

% Moisture: not dec. ____ Date Analyzed: 05/22/92

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

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (uL)

Number TICs found: 9

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. HYDROCARBON	13.94	4500	J
2.	UNKNOWN	16.17	6200	J
3.	UNKNOWN	16.37	4600	J
4.	UNKNOWN ALIP. HYDROCARBON	17.34	8100	J
5.	UNKNOWN	17.35	9600	J
6.	UNKNOWN	17.44	12000	J
7.	UNKNOWN	17.65	2400	J
8.	UNKNOWN ALIP. HYDROCARBON	17.87	14000	J
9.	UNKNOWN ALIP. HYDROCARBON	18.04	12000	J

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X403

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217198

Sample wt/vol: 1.3 (g/mL) G Lab File ID: B0630W08

Level: (low/med) MED Date Received: 05/14/92

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/20/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/30/92

Injection Volume: 2.0 (uL) Dilution Factor: 60.0

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

Number TICs found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. HYDROCARBON	12.92	1400000	J
2.	UNKNOWN ALIP. HYDROCARBON	14.99	3000000	J
3.	UNKNOWN ALIP. HYDROCARBON	16.20	440000	J
4.	UNKNOWN ALIP. HYDROCARBON	16.72	490000	J
5.	UNKNOWN	17.70	340000	J
6.	UNKNOWN ALIP. HYDROCARBON	17.99	380000	J
7.	UNKNOWN ALIP. HYDROCARBON	18.15	850000	J
8.	UNKNOWN ALIP. HYDROCARBON	18.47	440000	J
9.	UNKNOWN ALIP. HYDROCARBON	18.60	3600000	J
10.	UNKNOWN METHYLNAPHTHALENE	19.19	620000	J
11.	UNKNOWN	19.47	570000	J
12.	UNKNOWN ALIP. HYDROCARBON	20.24	3000000	J
13.	UNKNOWN ETHYLNAPHTHALENE	20.52	390000	J
14.	UNKNOWN DIMETHYLNAPHTHALENE	20.95	880000	J
15.	UNKNOWN DIMETHYLNAPHTHALENE	21.00	430000	J
16.	UNKNOWN ALIP. HYDROCARBON	21.22	580000	J
17.	UNKNOWN ALIP. HYDROCARBON	21.77	1900000	J
18.	UNKNOWN TRIMETHYLNAPHTHALENE	22.24	430000	J
19.	UNKNOWN ALIP. HYDROCARBON	23.22	1100000	J
20.	UNK. METHYLDIBENZOTHIOPHENE	27.29	640000	J
21.	UNKNOWN PNA	27.79	870000	J
22.	UNKNOWN PNA	27.87	860000	J
23.	UNKNOWN PNA	28.14	610000	J
24.	UNKNOWN ALIP. HYDROCARBON	28.34	720000	J
25.	UNKNOWN PNA	29.12	420000	J
26.	UNKNOWN PNA	29.24	600000	J
27.	UNKNOWN PNA	29.47	1000000	J
28.	UNKNOWN PNA	29.56	420000	J
29.	UNKNOWN ALIP. HYDROCARBON	31.62	1100000	J
30.	UNKNOWN ALIP. HYDROCARBON	32.64	1100000	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X405

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217199

Sample wt/vol: 1.0 (g/mL) G Lab File ID: A0519BK14

Level: (low/med) MED Date Received: 05/14/92

% Moisture: not dec. ____ Date Analyzed: 05/19/92

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

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (uL)

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	4800	UJ
74-83-9	Bromomethane	4800	U
75-01-4	Vinyl Chloride	4800	U
75-00-3	Chloroethane	4800	U
75-09-2	Methylene Chloride	4800 ~~1300~~	~~BJ~~ U am
67-64-1	Acetone	4800	UJ
75-15-0	Carbon Disulfide	4800	UJ
75-35-4	1,1-Dichloroethene	4800	U
75-34-3	1,1-Dichloroethane	4800	U
540-59-0	1,2-Dichloroethene (total)	4800	U
67-66-3	Chloroform	4800	U
107-06-2	1,2-Dichloroethane	4800	U
78-93-3	2-Butanone	4800	U
71-55-6	1,1,1-Trichloroethane	4800	U
56-23-5	Carbon Tetrachloride	4800	U
75-27-4	Bromodichloromethane	4800	U
78-87-5	1,2-Dichloropropane	4800	U
10061-01-5	cis-1,3-Dichloropropene	4800	U
79-01-6	Trichloroethene	4800	U
124-48-1	Dibromochloromethane	4800	U
79-00-5	1,1,2-Trichloroethane	4800	U
71-43-2	Benzene	4800	U
10061-02-6	trans-1,3-Dichloropropene	4800	U
75-25-2	Bromoform	4800	U
108-10-1	4-Methyl-2-Pentanone	4800	U
591-78-6	2-Hexanone	4800	U
127-18-4	Tetrachloroethene	4800	U
79-34-5	1,1,2,2-Tetrachloroethane	4800	U
108-88-3	Toluene	4800	U
108-90-7	Chlorobenzene	4800	U
100-41-4	Ethylbenzene	1200	J
100-42-5	Styrene	4800	U
1330-20-7	Xylene (total)	12000	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X405

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217199

Sample wt/vol: 1.0 (g/mL) G Lab File ID: B0630W09

Level: (low/med) MED Date Received: 05/14/92

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/20/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/30/92

Injection Volume: 2.0 (uL) Dilution Factor: 60.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	600000	U
111-44-4	bis(2-Chloroethyl)Ether	600000	U
95-57-8	2-Chlorophenol	600000	U
541-73-1	1,3-Dichlorobenzene	600000	U
106-46-7	1,4-Dichlorobenzene	600000	U
95-50-1	1,2-Dichlorobenzene	600000	U
95-48-7	2-Methylphenol	600000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	600000	U
106-44-5	4-Methylphenol	600000	U
621-64-7	N-Nitroso-Di-n-Propylamine	600000	U
67-72-1	Hexachloroethane	600000	U
98-95-3	Nitrobenzene	600000	U
78-59-1	Isophorone	600000	U
88-75-5	2-Nitrophenol	600000	U
105-67-9	2,4-Dimethylphenol	600000	U
111-91-1	bis(2-Chloroethoxy)Methane	600000	U
120-83-2	2,4-Dichlorophenol	600000	U
120-82-1	1,2,4-Trichlorobenzene	600000	U
91-20-3	Naphthalene	130000	J
106-47-8	4-Chloroaniline	600000	UJ
87-68-3	Hexachlorobutadiene	600000	U
59-50-7	4-Chloro-3-Methylphenol	600000	U
91-57-6	2-Methylnaphthalene	420000	J
77-47-4	Hexachlorocyclopentadiene	600000	U
88-06-2	2,4,6-Trichlorophenol	600000	U
95-95-4	2,4,5-Trichlorophenol	1500000	U
91-58-7	2-Chloronaphthalene	600000	U
88-74-4	2-Nitroaniline	1500000	U
131-11-3	Dimethylphthalate	600000	U
208-96-8	Acenaphthylene	600000	U
606-20-2	2,6-Dinitrotoluene	600000	U
99-09-2	3-Nitroaniline	1500000	UJ
83-32-9	Acenaphthene	600000	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X405

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217199

Sample wt/vol: 1.0 (g/mL) G Lab File ID: B0630W09

Level: (low/med) MED Date Received: 05/14/92

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/20/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/30/92

Injection Volume: 2.0(uL) Dilution Factor: 60.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1500000	U
100-02-7	4-Nitrophenol	1500000	U
132-64-9	Dibenzofuran	600000	U
121-14-2	2,4-Dinitrotoluene	600000	U
84-66-2	Diethylphthalate	600000	U
7005-72-3	4-Chlorophenyl-phenylether	600000	U
86-73-7	Fluorene	600000	U
100-10-6	4-Nitroaniline	1500000	U
534-52-1	4,6-Dinitro-2-methylphenol	1500000	U
86-30-6	N-Nitrosodiphenylamine (1)	600000	U
101-55-3	4-Bromophenyl-phenylether	600000	U
118-74-1	Hexachlorobenzene	600000	U
87-86-5	Pentachlorophenol	1500000	U
85-01-8	Phenanthrene	600000	U
120-12-7	Anthracene	600000	U
86-74-8	Carbazole	600000	U
84-74-2	Di-n-Butylphthalate	600000	U
206-44-0	Fluoranthene	600000	U
129-00-0	Pyrene	600000	U
85-68-7	Butylbenzylphthalate	600000	U
91-94-1	3,3'-Dichlorobenzidine	2400000	UJ
56-55-3	Benzo(a)Anthracene	600000	U
218-01-9	Chrysene	600000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	600000	U
117-84-0	Di-n-Octyl Phthalate	600000	UJ
205-99-2	Benzo(b)Fluoranthene	600000	U
207-08-9	Benzo(k)Fluoranthene	600000	UJ
50-32-8	Benzo(a)Pyrene	600000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	600000	U
53-70-3	Dibenz(a,h)Anthracene	600000	U
191-24-2	Benzo(g,h,i)Perylene	600000	U

(1) - Cannot be separated from Diphenylamine

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X405DL

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217199

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

% Moisture: 0 decanted: (Y/N) N Date Received: 05/14/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/09/92

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 0.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	430	U
319-85-7	beta-BHC	430	U
319-86-8	delta-BHC	430	U
58-89-9	gamma-BHC (Lindane)	430	U
76-44-8	Heptachlor	430	U
309-00-2	Aldrin	430	U
1024-57-3	Heptachlor epoxide	430	U
959-98-8	Endosulfan I	430	U
60-57-1	Dieldrin	280	JPD
72-55-9	4,4'-DDE	840	U
72-20-8	Endrin	840	U
33213-65-9	Endosulfan II	840	U
72-54-8	4,4'-DDD	840	U
1031-07-8	Endosulfan sulfate	840	U
50-29-3	4,4'-DDT	840	U
72-43-5	Methoxychlor	4300	U
53494-70-5	Endrin ketone	840	U
7421-36-3	Endrin aldehyde	840	U
5103-71-9	alpha-Chlordane	430	U
5103-74-2	gamma-Chlordane	86	JPD
8001-35-2	Toxaphene	43000	U
12674-11-2	Aroclor-1016	8400	U
11104-28-2	Aroclor-1221	17000	U
11141-16-5	Aroclor-1232	8400	U
53469-21-9	Aroclor-1242	8400	U
12672-29-6	Aroclor-1248	8400	U
11097-69-1	Aroclor-1254	8400	U
11096-82-5	Aroclor-1260	8400	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X405

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217199

Sample wt/vol: 1.0 (g/mL) G Lab File ID: A0519BK14

Level: (low/med) MED Date Received: 05/14/92

% Moisture: not dec. _____ Date Analyzed: 05/19/92

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

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (uL)

Number TICs found: 6

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	13.94	1400	J
2.	UNKNOWN	17.32	3700	J
3.	UNKNOWN	17.42	9100	J
4.	UNKNOWN	17.84	10000	J
5.	UNKNOWN ALIP. HYDROCARBON	18.04	5600	J
6.	UNKNOWN	18.65	46000	J

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X405

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217199

Sample wt/vol: 1.0 (g/mL) G Lab File ID: B0630W09

Level: (low/med) MED Date Received: 05/14/92

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/20/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/30/92

Injection Volume: 2.0(uL) Dilution Factor: 60.0

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

Number TICs found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. HYDROCARBON	12.92	1000000	J
2.	UNKNOWN ALIP. HYDROCARBON	14.99	4800000	J
3.	UNKNOWN	15.79	1100000	J
4.	UNK. C4 SUBSTITUTED BENZENE	16.19	610000	J
5.	UNKNOWN	17.70	900000	J
6.	UNKNOWN ALIP. HYDROCARBON	17.90	400000	J
7.	UNKNOWN ALIP. HYDROCARBON	17.99	790000	J
8.	UNKNOWN ALIP. HYDROCARBON	18.15	2100000	J
9.	UNKNOWN	18.50	570000	J
10.	UNKNOWN ALIP. HYDROCARBON	18.60	5500000	J
11.	UNKNOWN ALIP. HYDROCARBON	18.92	910000	J
12.	UNKNOWN METHYL NAPHTHALENE	19.19	630000	J
13.	UNKNOWN	19.47	1400000	J
14.	UNKNOWN ALIP. HYDROCARBON	19.65	480000	J
15.	UNKNOWN ALIP. HYDROCARBON	20.24	4700000	J
16.	UNKNOWN	20.30	700000	J
17.	UNKNOWN DIMETHYLNAPHTHALENE	20.70	490000	J
18.	UNKNOWN DIMETHYLNAPHTHALENE	20.95	570000	J
19.	UNKNOWN ALIP. HYDROCARBON	21.22	1400000	J
20.	UNKNOWN ALIP. HYDROCARBON	21.77	3200000	J
21.	UNKNOWN ALIP. HYDROCARBON	23.22	1700000	J
22.	UNKNOWN ALIP. HYDROCARBON	23.90	870000	J
23.	UNKNOWN ALIP. HYDROCARBON	24.59	1800000	J
24.	UNKNOWN ALIP. HYDROCARBON	24.69	880000	J
25.	UNKNOWN ALIP. HYDROCARBON	25.91	1500000	J
26.	UNKNOWN ALIP. HYDROCARBON	26.06	1000000	J
27.	UNKNOWN ALIP. HYDROCARBON	27.16	1300000	J
28.	UNKNOWN ALIP. HYDROCARBON	28.34	1200000	J
29.	UNKNOWN ALIP. HYDROCARBON	29.49	990000	J
30.	UNKNOWN ALIP. HYDROCARBON	31.62	1200000	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X406

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217200

Sample wt/vol: 1.0 (g/mL) G Lab File ID: A0520BK16

Level: (low/med) MED Date Received: 05/14/92

% Moisture: not dec. ____ Date Analyzed: 05/20/92

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

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (uL)

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	4700	U
74-83-9	Bromomethane	4700	U
75-01-4	Vinyl Chloride	4700	U
75-00-3	Chloroethane	4700	U
75-09-2	Methylene Chloride	4700 ~~1000~~	~~BJ~~ U
67-64-1	Acetone	4700	UJ
75-15-0	Carbon Disulfide	4700	U
75-35-4	1,1-Dichloroethene	4700	U
75-34-3	1,1-Dichloroethane	4700	U
540-59-0	1,2-Dichloroethene (total)	4700	U
67-66-3	Chloroform	4700	U
107-06-2	1,2-Dichloroethane	4700	U
78-93-3	2-Butanone	4700	U
71-55-6	1,1,1-Trichloroethane	4700	U
56-23-5	Carbon Tetrachloride	4700	U
75-27-4	Bromodichloromethane	4700	U
78-87-5	1,2-Dichloropropane	4700	U
10061-01-5	cis-1,3-Dichloropropene	4700	U
79-01-6	Trichloroethene	4700	U
124-48-1	Dibromochloromethane	4700	U
79-00-5	1,1,2-Trichloroethane	4700	U
71-43-2	Benzene	4700	U
10061-02-6	trans-1,3-Dichloropropene	4700	U
75-25-2	Bromoform	4700	UJ
108-10-1	4-Methyl-2-Pentanone	4700	U
591-78-6	2-Hexanone	4700	U
127-18-4	Tetrachloroethene	4700	U
79-34-5	1,1,2,2-Tetrachloroethane	4700	U
108-88-3	Toluene	4700	U
108-90-7	Chlorobenzene	4700	U
100-41-4	Ethylbenzene	4700	U
100-42-5	Styrene	4700	U
1330-20-7	Xylene (total)	17000	

am

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X406

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217200

Sample wt/vol: 1.3 (g/mL) G Lab File ID: B0630W10

Level: (low/med) MED Date Received: 05/14/92

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/20/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/30/92

Injection Volume: 2.0 (uL) Dilution Factor: 60.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	460000	U
111-44-4	bis(2-Chloroethyl)Ether	460000	U
95-57-8	2-Chlorophenol	460000	U
541-73-1	1,3-Dichlorobenzene	460000	U
106-46-7	1,4-Dichlorobenzene	460000	U
95-50-1	1,2-Dichlorobenzene	460000	U
95-48-7	2-Methylphenol	460000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	460000	U
106-44-5	4-Methylphenol	460000	U
621-64-7	N-Nitroso-Di-n-Propylamine	460000	U
67-72-1	Hexachloroethane	460000	U
98-95-3	Nitrobenzene	460000	U
78-59-1	Isophorone	460000	U
88-75-5	2-Nitrophenol	460000	U
105-67-9	2,4-Dimethylphenol	460000	U
111-91-1	bis(2-Chloroethoxy)Methane	460000	U
120-83-2	2,4-Dichlorophenol	460000	U
120-82-1	1,2,4-Trichlorobenzene	460000	U
91-20-3	Naphthalene	460000	U
106-47-8	4-Chloroaniline	460000	UJ
87-68-3	Hexachlorobutadiene	460000	U
59-50-7	4-Chloro-3-Methylphenol	460000	U
91-57-6	2-Methylnaphthalene	360000	J
77-47-4	Hexachlorocyclopentadiene	460000	U
88-06-2	2,4,6-Trichlorophenol	460000	U
95-95-4	2,4,5-Trichlorophenol	1200000	U
91-58-7	2-Chloronaphthalene	460000	U
88-74-4	2-Nitroaniline	1200000	U
131-11-3	Dimethylphthalate	460000	U
208-96-8	Acenaphthylene	460000	U
606-20-2	2,6-Dinitrotoluene	460000	U
99-09-2	3-Nitroaniline	1200000	UJ
83-32-9	Acenaphthene	460000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X406

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217200

Sample wt/vol: 1.3 (g/mL) G Lab File ID: B0630W10

Level: (low/med) MED Date Received: 05/14/92

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/20/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/30/92

Injection Volume: 2.0 (uL) Dilution Factor: 60.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200000	U
100-02-7	4-Nitrophenol	1200000	U
132-64-9	Dibenzofuran	460000	U
121-14-2	2,4-Dinitrotoluene	460000	U
84-66-2	Diethylphthalate	460000	U
7005-72-3	4-Chlorophenyl-phenylether	460000	U
86-73-7	Fluorene	460000	U
100-10-6	4-Nitroaniline	1200000	U
534-52-1	4,6-Dinitro-2-methylphenol	1200000	U
86-30-6	N-Nitrosodiphenylamine (1)	460000	U
101-55-3	4-Bromophenyl-phenylether	460000	U
118-74-1	Hexachlorobenzene	460000	U
87-86-5	Pentachlorophenol	1200000	U
85-01-8	Phenanthrene	460000	U
120-12-7	Anthracene	460000	U
86-74-8	Carbazole	460000	U
84-74-2	Di-n-Butylphthalate	460000	U
206-44-0	Fluoranthene	460000	U
129-00-0	Pyrene	460000	U
85-68-7	Butylbenzylphthalate	460000	U
91-94-1	3,3'-Dichlorobenzidine	1800000	UJ
56-55-3	Benzo(a)Anthracene	460000	U
218-01-9	Chrysene	460000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	460000	U
117-84-0	Di-n-Octyl Phthalate	460000	UJ
205-99-2	Benzo(b)Fluoranthene	460000	U
207-08-9	Benzo(k)Fluoranthene	460000	UJ
50-32-8	Benzo(a)Pyrene	460000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	460000	U
53-70-3	Dibenz(a,h)Anthracene	460000	U
191-24-2	Benzo(g,h,i)Perylene	460000	U

(1) - Cannot be separated from Diphenylamine

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X406DL

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217200

Sample wt/vol: 1.1 (g/mL) G Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N Date Received: 05/14/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/09/92

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 0.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	450	U
319-85-7	beta-BHC	450	U
319-86-8	delta-BHC	450	U
58-89-9	gamma-BHC (Lindane)	450	U
76-44-8	Heptachlor	450	U
309-00-2	Aldrin	450	U
1024-57-3	Heptachlor epoxide	450	U
959-98-8	Endosulfan I	450	U
60-57-1	Dieldrin	290	JP
72-55-9	4,4'-DDE	870	U
72-20-8	Endrin	870	U
33213-65-9	Endosulfan II	870	U
72-54-8	4,4'-DDD	870	U
1031-07-8	Endosulfan sulfate	870	U
50-29-3	4,4'-DDT	870	U
72-43-5	Methoxychlor	4500	U
53494-70-5	Endrin ketone	870	U
7421-36-3	Endrin aldehyde	870	U
5103-71-9	alpha-Chlordane	450	U
5103-74-2	gamma-Chlordane	83	J
8001-35-2	Toxaphene	45000	U
12674-11-2	Aroclor-1016	8700	U
11104-28-2	Aroclor-1221	18000	U
11141-16-5	Aroclor-1232	8700	U
53469-21-9	Aroclor-1242	8700	U
12672-29-6	Aroclor-1248	8700	U
11097-69-1	Aroclor-1254	8700	U
11096-82-5	Aroclor-1260	8700	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X406

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217200

Sample wt/vol: 1.0 (g/mL) G Lab File ID: A0520BK16

Level: (low/med) MED Date Received: 05/14/92

% Moisture: not dec. ____ Date Analyzed: 05/20/92

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

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (uL)

Number TICs found: 7

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. HYDROCARBON	13.95	1400	J
2.	UNKNOWN ALIP. HYDROCARBON	16.17	3900	J
3.	UNKNOWN	16.35	3100	J
4.	UNKNOWN	17.34	4000	J
5.	UNKNOWN ALIP. HYDROCARBON	17.44	10000	J
6.	UNKNOWN	17.87	13000	J
7.	UNKNOWN ALIP. HYDROCARBON	18.05	7400	J

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X406

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217200

Sample wt/vol: 1.3 (g/mL) G Lab File ID: B0630W10

Level: (low/med) MED Date Received: 05/14/92

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/20/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/30/92

Injection Volume: 2.0 (uL) Dilution Factor: 60.0

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

Number TICs found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. HYDROCARBON	12.89	900000	J
2.	UNKNOWN ALIP. HYDROCARBON	14.95	4100000	J
3.	UNKNOWN	15.75	930000	J
4.	UNKNOWN ALIP. HYDROCARBON	17.09	1500000	J
5.	UNKNOWN	17.67	750000	J
6.	UNKNOWN ALIP. HYDROCARBON	17.94	650000	J
7.	UNKNOWN ALIP. HYDROCARBON	18.12	1800000	J
8.	UNKNOWN	18.47	470000	J
9.	UNKNOWN ALIP. HYDROCARBON	18.57	4600000	J
10.	UNKNOWN ALIP. HYDROCARBON	18.89	760000	J
11.	UNKNOWN METHYLNAPHTHALENE	19.15	500000	J
12.	UNKNOWN	19.44	1200000	J
13.	UNKNOWN ALIP. HYDROCARBON	19.62	410000	J
14.	UNKNOWN ALIP. HYDROCARBON	20.20	4100000	J
15.	UNKNOWN ALIP. HYDROCARBON	20.27	440000	J
16.	UNKNOWN DIMETHYLNAPHTHALENE	20.67	400000	J
17.	UNKNOWN DIMETHYLNAPHTHALENE	20.92	480000	J
18.	UNKNOWN DIMETHYLNAPHTHALENE	20.97	280000	J
19.	UNKNOWN ALIP. HYDROCARBON	21.12	470000	J
20.	UNKNOWN ALIP. HYDROCARBON	21.19	1200000	J
21.	UNKNOWN ALIP. HYDROCARBON	21.74	2600000	J
22.	UNKNOWN ALIP. HYDROCARBON	23.19	1500000	J
23.	UNKNOWN ALIP. HYDROCARBON	24.57	1500000	J
24.	UNKNOWN ALIP. HYDROCARBON	24.65	760000	J
25.	UNKNOWN ALIP. HYDROCARBON	25.87	1300000	J
26.	UNKNOWN ALIP. HYDROCARBON	26.02	860000	J
27.	UNKNOWN ALIP. HYDROCARBON	27.12	1000000	J
28.	UNKNOWN ALIP. HYDROCARBON	28.31	1000000	J
29.	UNKNOWN ALIP. HYDROCARBON	29.46	850000	J
30.	UNKNOWN ALIP. HYDROCARBON	31.59	1000000	J

Data Validation Checklist
Site Name: A+M Canal
SDG No.: 217188
Laboratory: IEPA
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PRELIMINARY REVIEW

1. *Chain-of-Custody*

	YES	NO	
a.	[X]	[ ]	Check chain-of-custody documentation for date/time sampled, date/time received in laboratory.
b.	[X]	[ ]	Check chain-of-custody documentation for proper documentation of transfers and signoffs.
c.	[X]	[ ]	Check chain-of-custody documentation for any inconsistencies or anomalies.

Comments:

2. *Case Narrative*

	YES	NO	
a.	[X]	[ ]	Review entire case narrative.
b.	[X]	[ ]	Check case narrative for completeness.
c.	[X]	[ ]	Check for proper authorization signature.

Comments:
Case Narrative sample identification list does not include X401RE or X402RE.

Data Validation Checklist
Site Name: A+M Canal
SDG No.: 217188
Laboratory: IEPA
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I. Holding Times

YES NO
[X] [ ] Check that all technical and/or contractual holding times were met, as required, for all fractions.

EPA Number	Lab Number	Date Coll.	Date Rec'd.	VOA Date Anal.	Semi-VOA Date Extr	Semi-VOA Date Anal.	Pesticide Date Extr	Pesticide Date Anal.
X101	D217188	5/13/92	5/14/92	5/19/92	5/19/92	6/29/92	5/22/92	7/9/92
X102	-189	5/13	5/14	5/22	5/20	6/30	5/20	7/9
X103	-190	5/13	5/14	5/19	5/19	6/29	5/22	7/9
X103RE	-190	5/13	5/14	5/19	—	—	—	—
X104	-191	5/13	5/14	5/20	5/20	6/30	5/20	7/9
X105	-192	5/13	5/14	5/19	5/19	6/29	5/22	7/9
X201	-193	5/13	5/14	5/19	5/19	6/29	5/22	7/9
X201DL	-193	5/13	5/14	5/19	~~5/19~~	~~6/29~~	—	—
X202	-194	5/13	5/14	5/19	5/19	6/29	5/22	7/9
X202RE	-194	5/13	5/14	5/19	—	—	—	—
X203	-195	5/13	5/14	5/19	5/19	6/29	5/22	7/9
X203RE	-195	5/13	5/14	5/19	—	—	—	—
X401	-196	5/13	5/14	5/19	5/20	6/30	5/20	7/9
X402	-197	5/13	5/14	5/19	5/20	6/30	5/20	7/9
X403	-198	5/13	5/14	5/22	5/20	6/30	5/20	7/9
X405	-199	5/13	5/14	5/19	5/20	6/30	5/20	7/9
X406	-200	5/13	5/14	5/20	5/20	6/30	5/20	7/9
X401RE	-196	5/13	5/14	5/22	—	—	—	—
X402RE	-197	5/13	5/14	5/22	—	—	—	—

List below all samples (by sample number and fraction) qualified due to holding times.

VOA - OK
SV - All extracts exceeded the 40 day contractual H.T. from extraction to analysis (41 days).
Pest - All extracts exceeded the 40 day contractual H.T. from extraction to analysis. (48-50 days)

Data Validation Checklist
Site Name: Ar M Canal
SDG No.: 217188
Laboratory: IEPA
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II. GC/MS Instrument Performance Check

Fraction: VOA SemiVOA (*circle one*)

1. *Evaluate Forms V and Raw Data*

	YES	NO	
a.	[X]	[ ]	Check that Forms V are present and completed for each 12 hour time period.
b.	[X]	[ ]	Check for transcription errors between raw data and Forms V.
c.	[X]	[ ]	Check that the appropriate number of significant figures has been reported and that rounding errors have not occurred.
d.	[X]	[ ]	Check for calculation errors.

2. *Verify Raw Data Format*

YES	NO	
[X]	[ ]	Check mass spectral listing to determine that the mass assignment is correct and that the mass listing is normalize to the specified ion (m/z 95 for VOA, m/z 198 for SemiVOA).

3. *Verify Ion Abundance Criteria*

YES	NO	
[X]	[ ]	Check that all ion abundance criteria has been met.

4. *Verify Background Correction*

YES	NO	
[X]	[ ]	Check that tuning compound spectra were generated using appropriate background correction.

Comments:

Data Validation Checklist
Site Name: Ar M Canal
SDG No.: 217188
Laboratory: IEPA
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III. Initial Calibration

GC/MS

Fraction: (VOA) SemiVOA (*circle one*)

1. ***Verify that the Correct Standard Concentrations Were Used.***

YES	NO	
[X]	[ ]	Check the Forms VI and the raw data to verify that the correct standard concentrations were used to calibrate the GC/MS instrument(s).

2. ***Verify that the Correct Initial Calibration was Used for Water and Low Level Soils.***

YES	NO	N/A	
[X]	[ ]	[ ]	Check that initial calibrations were performed as required for water/med. level soil and low level soil.

3. ***Verify Use of Correct Standards.***

YES	NO	N/A	
[ ]	[ ]	[X]	Check that the correct standard was used for quantitation of samples, if samples were analyzed immediately subsequent to initial calibration.

4. ***Evaluate Initial Calibration*** RRFs ***and*** $\overline{\text{RRF}}$s.

	YES	NO	
a.	[X]	[ ]	Check and recalculate the RRFs and $\overline{\text{RRF}}$s for several target compounds (at least one associated with each internal standard).
b.	[X]	[ ]	Check that, for all target compounds and surrogates, the $\overline{\text{RRF}}$s meet the applicable criteria. Note any "outliers" on the Calibration Outliers Form.

5. ***Evaluate Initial Calibration %RSDs.***

	YES	NO	
a.	[X]	[ ]	Check and recalculate the *%RSD* for several target compounds.
b.	[X]	[ ]	Check that the applicable *%RSD* criteria have been met. Note any "outliers" on the Calibration Outliers Form.

Comments:

IV. Continuing Calibration

GC/MS

Fraction: (VOA) SemiVOA (*circle one*)

1. ***Verify Continuing Calibration Frequency.***

YES	NO	
[X]	[ ]	Check the continuing calibration raw data and Forms VII to verify that continuing calibration standards were analyzed at the proper frequency and that each continuing calibration was compared to the appropriate initial calibration.

2. ***Evaluate Continuing Calibration RRFs.***

	YES	NO	
a.	[X]	[ ]	Check and recalculate the continuing calibration *RRFs* for several compounds.
b.	[X]	[ ]	Check that all target compound and surrogate *RRFs* meet the criteria.

3. ***Evaluate Continuing Calibration %Ds.***

	YES	NO	
a.	[X]	[ ]	Check and recalculate the continuing calibration *%Ds* for several compounds.
b.	[X]	[ ]	Check that all target compound and surrogate *%Ds* meet the applicable criteria.

Comments:

VOLATILE CALIBRATION OUTLIERS

3/90 SOW

Lab Name: IEPA

Case: SJM Canal

Instrument # 5100 B heated purge	Minimum RRF	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME:		4/23/92 1031			5/19/92 1132			5/20/92 1120								
		RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q
Chloromethane	0.010					51.0	J		66.0	J						
Bromomethane	0.100															
Vinyl Chloride	0.100															
Chloroethane	0.010					32.5	J									
Methylene Chloride	0.010															
Acetone	0.010								33.1	J						
Carbon Disulfide	0.010															
1,1-Dichloroethene	0.100															
1,1-Dichloroethane	0.200															
1,2-Dichloroethene (total)	0.010															
Chloroform	0.200															
1,2-Dichloroethane	0.100								30.5	J						
2-Butanone	0.010								54.2	J						
1,1,1-Trichloroethane	0.100															
Carbon Tetrachloride	0.100															
Bromodichloromethane	0.200															
1,2-Dichloropropane	0.010															
cis-1,3-Dichloropropene	0.200															
Trichloroethene	0.300															
Dibromochloromethane	0.100															
1,1,2-Trichloroethane	0.100															
Benzene	0.500															
trans-1,3-Dichloropropene	0.100															
Bromoform	0.100															
4-Methyl-2-Pentanone	0.010															
2-Hexanone	0.010															
Tetrachloroethene	0.200															
1,1,2,2-Tetrachloroethane	0.500															
Toluene	0.400															
Chlorobenzene	0.500															
Ethylbenzene	0.100															
Styrene	0.300															
Xylene(total)	0.300															
Bromofluorobenzene	0.300															

AFFECTED SAMPLES:

VBLK5L1	VBLK5L2	
X101	X105MS	
X105	X105MSD	
X201		
X203		
X103		
X202		
X203RE		
X103RE		
X202RE		
X201DL		

Reviewer's Initials/Date: Am 8/21/92

This column of flags should be applied to the analytes on the sample data sheets.

VOLATILE CALIBRATION OUTLIERS

3/90 SOW

Lab Name: IEPA Case: Sr M Canal

Instrument # 5100	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME:	RRF	4/28/92 1254			5/19/92 927			5/20/92 1057			5/22/92 1051					
non-heated purge		RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q
Chloromethane	0.010					27.3	J					44.9	J			
Bromomethane	0.100											25.6	J			
Vinyl Chloride	0.100											39.2	J			
Chloroethane	0.010															
Methylene Chloride	0.010															
Acetone	0.010		55.5	J		30.9	J		35.7	J		42.1	J			
Carbon Disulfide	0.010					29.3	J									
1,1-Dichloroethene	0.100															
1,1-Dichloroethane	0.200															
1,2-Dichloroethene (total)	0.010															
Chloroform	0.200															
1,2-Dichloroethane	0.100															
2-Butanone	0.010															
1,1,1-Trichloroethane	0.100															
Carbon Tetrachloride	0.100															
Bromodichloromethane	0.200															
1,2-Dichloropropane	0.010															
cis-1,3-Dichloropropene	0.200															
Trichloroethene	0.300															
Dibromochloromethane	0.100															
1,1,2-Trichloroethane	0.100															
Benzene	0.500															
trans-1,3-Dichloropropene	0.100															
Bromoform	0.100								26.3	J						
4-Methyl-2-Pentanone	0.010															
2-Hexanone	0.010															
Tetrachloroethene	0.200															
1,1,2,2-Tetrachloroethane	0.500															
Toluene	0.400															
Chlorobenzene	0.500															
Ethylbenzene	0.100															
Styrene	0.300															
Xylene(total)	0.300															
Bromofluorobenzene	0.300															

AFFECTED SAMPLES:			
	VBLKSM1	VBLKSM2	VBLKSM3
	X401	X104	X102
	X402	X406	X401RE
	X405		X402RE
			X403
			X104MS
			X104MSD

Reviewer's Initials/Date: am 8/21/92

3/92

This column of flags should be applied to the analytes on the sample data sheets.

Data Validation Checklist
Site Name: Ir M Canal
SDG No.: 217188
Laboratory: IEPA
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V. Blanks

Fraction: (VOA) SemiVOA Pest. *(circle one)*

1. ***Review Blank Results.***

YES NO
[X] [ ] Check all associated blanks for the presence of TCL compounds or TICs. Note all contaminated blanks ~~and associated samples~~ below.

2. ***Verify Blank Frequency.***

YES NO
[X] [ ] Check that blank analyses have been performed at the required frequency.

Blank Summary

Blank Sample No.	VBLKSL1		VBLKSL2		VBLKSM1		VBLKSM2	
Date Anal. or Extr.	5/19/92		5/20/92		5/19/92		5/20/92	
Instrument	5100B		5100B		5100		5100	
TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount
MeCl2	6	MeCl2	6	MeCl2	390	MeCl2	260
Acetone	13						
2-But	3						

TIC Comp'd.	Amount	TIC Comp'd.	Amount	TIC Comp'd.	Amount	TIC Comp'd.	Amount

Data Validation Checklist
Site Name: A+M Canal
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Blank Summary Continued

Blank Sample No.	VBLKSM3			
Date Anal. or Extr.	5/22/92			
Instrument	5100			

TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount

TIC Comp'd.	Amount	TIC Comp'd.	Amount	TIC Comp'd.	Amount	TIC Comp'd.	Amount

Blank Sample No.				
Date Anal. or Extr.				
Instrument				

TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount

TIC Comp'd.	Amount	TIC Comp'd.	Amount	TIC Comp'd.	Amount	TIC Comp'd.	Amount

Data Validation Checklist
Site Name: Sem Canal
SDG No.: 217188
Laboratory: ICPA
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VI. Surrogate Spikes

GC/MS

Fraction: (VOA) SemiVOA (*circle one*)

1. ***Review Raw Data.***

YES NO
[X] [ ] Check raw data to verify that the recoveries on the Form II are accurate and within the limits.

2. ***Evaluate Surrogate Recovery Calculations.***

YES NO
[X] [ ] Check that the surrogate spike recoveries were calculated correctly and are free from transcription errors.

3 ***Evaluate Surrogate Recoveries.***

YES NO
a. [X] [ ] Check that reanalyses were performed as required.

b. [X] [ ] Check that surrogate recoveries in blanks met criteria.

4. ***Evaluate Reanalyses.***

YES NO
[X] [ ] Whenever there are two or more analyses for a particular sample, determine which are the best analyses to use. This determination must be performed in conjunction with the evaluation of the internal standard area response criteria. List below the results of the reviewers determinations.

Comments:

X103 X201DL X203 } 1,2-Dichloroethane dy high % R
X103RE X202 X203RE }
X202RE }

X401 Toluene dy + 1,2-Dichloroethane dy low % R
X401RE Toluene dy low % R
X402 Toluene dy low % R
X402RE Toluene dy + 1,2-Dichloroethane dy low % R
X104MS/MSD Toluene dy low % Rs

4) Use X103 instead of X103RE, X202RE instead of X202, X203 instead of X203RE, X401RE instead of X401, and X402 instead of X402RE.

Data Validation Checklist
Site Name: S&M Canal
SDG No.: 217188
Laboratory: IEPA
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VII. Matrix Spikes/Matrix Spike Duplicates

Fraction: (VOA) SemiVOA Pesticide (*circle one*)

1. *Verify Frequency*

YES NO
[X] [ ] Check that MS and MSD samples were analyzed at the correct frequency.

2. *Evaluate MS/MSD Criteria.*

YES NO
[X] [ ] Check MS/MSD results for *%R* and *RPD* are within the advisory limits.

3. *Verify MS/MSD Calculations.*

YES NO
a. [X] [ ] Check raw data and verify that results are calculated correctly and are free from transcription errors.

b. [X] [ ] Check that *%Rs* and *RPDs* were calculated correctly.

4. *Evaluate Sample Precision.*

YES NO
[X] [ ] Compare *%RSD* results of non-spiked compounds between the original result, MS and MSD.

	Compound	Orig. Result	MS Result	MSD Result	%RSD
X104	Methylene Chloride	1000	1700	2100	35%
	Xylene	2000	4400	3500	37%
X105	Methylene Chloride	13	10	8	24%

Comments:
X104 MS/MSD - No data reported on Chlorobenzene. Case Narrative states that data was lost.
X105 MS/MSD - OK.

VIII. Laboratory Control Samples

N/A

IX. Project Specific QA/QC

Evaluation Procedures must follow the project QAPjP.

N/A

X. Internal Standards

GC/MS

Fraction: VOA SemiVOA (*circle one*)

1. ***Evaluate Raw Data.***

YES NO
[X] [ ] Check raw data and verify that the internal standard retention times and areas reported on the Forms VIII are correct.

2. ***Verify RT and IS Area Criteria.***

YES NO
[X] [ ] Check that retention times and internal standard area meet the appropriate criteria.

3. ***Evaluate Reanalyses.***

YES NO
[X] [ ] Whenever there are two or more analyses for a particular sample, determine which are the best analyses to use. This determination must be performed in conjunction with the evaluation of the surrogate spike recovery criteria. List the results of the reviewers determinations in Section VI., Surrogate Spikes.

Comments:

XI. Target Compound Identification

GC/MS

Fraction: VOA SemiVOA (*circle one*)

1. ***Verify Relative Retention Time (RRT) Criteria.***

YES	NO	
[X]	[ ]	Check that the RRT of reported compounds is within the criteria.

2. ***Evaluate Target Compound Spectra.***

YES	NO	
[X]	[ ]	Check the sample target compound spectra against the laboratory standard spectra; verify that the specified criteria are met.

3. ***Evaluate Possible Carryover.***

YES	NO	
[X]	[ ]	Check the raw data of the samples as related to the samples analyzed previously to verify that sample carryover has not adversely affected results.

4. ***Evaluate Chromatograms.***

YES	NO	
[X]	[ ]	Check the sample chromatograms to verify that peaks are accounted for.

Comments:

XII. Compound Quantitation and Reported CRQLs

Fraction: (VOA) SemiVOA Pesticide *(circle one)*

1. ***Evaluate Quantitation of Sample Results.***

YES	NO	
[X]	[ ]	Check raw data to verify calculation of sample results.

2. ***Evaluate Quantitation Parameters.***

YES	NO	N/A	
[X]	[ ]	[ ]	For GC/MS analyses, check that the correct internal standard, quantitation ion, and *RRF* were used to quantitate results. Verify that the same internal standard, quantitation ion, and *RRF* are used throughout, in both the calibration and as well as the quantitation process.

3. ***Evaluate CRQLs.***

YES	NO	
[X]	[ ]	Check that the CRQLs have been adjusted to reflect all sample dilutions, concentrations, splits, cleanup activities, and dry weight factors.

Comments:

XIII. Tentatively Identified Compounds

GC/MS Only

Fraction: VOA SemiVOA (*circle one*)

1. ***Evaluate Tentative Identifications.***

YES	NO	
[X]	[ ]	Check that all TICs reported meet the identification guidelines.

2. ***Evaluate Raw Data.***

YES	NO	
[X]	[ ]	Check raw data to verify that the laboratory has generated a library search for all required peaks in the chromatograms for samples and blanks.

3. ***Evaluate Blanks.***

YES	NO	
[X]	[ ]	Check blank sample chromatograms to verify that TIC peaks present in samples are not found in blanks.

4. ***Examine Mass Spectra.***

YES	NO	
[X]	[ ]	Check all mass spectra for every sample.

5. ***Evaluate TIC Identifications.***

YES	NO	
[X]	[ ]	Since TIC library searches often yield several candidate compounds, all reasonable choices must be considered.

6. ***Evaluate Laboratory Artifacts and Contaminants.***

YES	NO	
[X]	[ ]	Check sample results and raw data to verify that common laboratory artifacts and contaminants are not reported as sample contaminants.

XIII. TICs continued

7. Evaluate Possibility of False Negatives.

	YES	NO	N/A	
a.	[X]	[ ]	[ ]	Check to determine if target compounds have been identified and quantitated as TICs.
b.	[ ]	[ ]	[X]	If target compounds have been identified and quantitated as TICs, check to determine whether the false negative is an isolated occurrence or whether additional data may be affected. Comment on all such false negatives below.

8. Determine That Results Are From Proper Fraction.

YES	NO	N/A	
[ ]	[ ]	[X]	Target compounds could be identified in more than one fraction; if this occurs, check that quantitation is from the proper fraction.

9. Verify That Internal Standards And Surrogates Are Not Searched.

YES	NO	
[X]	[ ]	Check that library searches were not performed on internal standards or surrogates.

10. Verify Estimated Quantitation of TICs.

YES	NO	
[X]	[ ]	Check that the estimated concentration of the TICs was made using an assumed *RRF* of one.

Comments:

XIV. GC/MS System Performance

Fraction: (VOA) SemiVOA (*circle one*)

1. Evaluate Overall System Performance.

	YES	NO	
a.	[X]	[ ]	Check for high RIC background levels or shifts in absolute retention times of internal standards.
b.	[X]	[ ]	Check for excessive baseline rise at elevated temperature.
c.	[X]	[ ]	Check for extraneous peaks.
d.	[X]	[ ]	Check for loss of resolution.
e.	[X]	[ ]	Check for peak tailing or peak splitting that may result in inaccurate quantitation.

Comments:

II. GC/MS Instrument Performance Check

Fraction: VOA SemiVOA (*circle one*)

1. *Evaluate Forms V and Raw Data*

	YES	NO	
a.	[X]	[ ]	Check that Forms V are present and completed for each 12 hour time period.
b.	[X]	[ ]	Check for transcription errors between raw data and Forms V.
c.	[X]	[ ]	Check that the appropriate number of significant figures has been reported and that rounding errors have not occurred.
d.	[X]	[ ]	Check for calculation errors.

2. *Verify Raw Data Format*

YES	NO	
[X]	[ ]	Check mass spectral listing to determine that the mass assignment is correct and that the mass listing is normalize to the specified ion (m/z 95 for VOA, m/z 198 for SemiVOA).

3. *Verify Ion Abundance Criteria*

YES	NO	
[X]	[ ]	Check that all ion abundance criteria has been met.

4. *Verify Background Correction*

YES	NO	
[X]	[ ]	Check that tuning compound spectra were generated using appropriate background correction.

Comments:

III. Initial Calibration

GC/MS

Fraction: VOA (SemiVOA) *(circle one)*

1. *Verify that the Correct Standard Concentrations Were Used.*

YES	NO	
[X]	[ ]	Check the Forms VI and the raw data to verify that the correct standard concentrations were used to calibrate the GC/MS instrument(s).

2. *Verify that the Correct Initial Calibration was Used for Water and Low Level Soils.*

YES	NO	N/A	
[ ]	[ ]	[X]	Check that initial calibrations were performed as required for water/med. level soil and low level soil.

3. *Verify Use of Correct Standards.*

YES	NO	N/A	
[ ]	[ ]	[X]	Check that the correct standard was used for quantitation of samples, if samples were analyzed immediately subsequent to initial calibration.

4. *Evaluate Initial Calibration* RRFs *and* $\overline{\text{RRF}}$s.

	YES	NO	
a.	[X]	[ ]	Check and recalculate the RRFs and $\overline{\text{RRF}}$s for several target compounds (at least one associated with each internal standard).
b.	[X]	[ ]	Check that, for all target compounds and surrogates, the $\overline{\text{RRF}}$s meet the applicable criteria. Note any "outliers" on the Calibration Outliers Form.

5. *Evaluate Initial Calibration %RSDs.*

	YES	NO	
a.	[X]	[ ]	Check and recalculate the *%RSD* for several target compounds.
b.	[X]	[ ]	Check that the applicable *%RSD* criteria have been met. Note any "outliers" on the Calibration Outliers Form.

Comments:

IV. Continuing Calibration

GC/MS

Fraction: VOA SemiVOA (*circle one*)

1. *Verify Continuing Calibration Frequency.*

YES	NO	
[X]	[ ]	Check the continuing calibration raw data and Forms VII to verify that continuing calibration standards were analyzed at the proper frequency and that each continuing calibration was compared to the appropriate initial calibration.

2. *Evaluate Continuing Calibration RRFs.*

	YES	NO	
a.	[X]	[ ]	Check and recalculate the continuing calibration *RRFs* for several compounds.
b.	[X]	[ ]	Check that all target compound and surrogate *RRFs* meet the criteria.

3. *Evaluate Continuing Calibration %Ds.*

	YES	NO	
a.	[X]	[ ]	Check and recalculate the continuing calibration *%Ds* for several compounds.
b.	[X]	[ ]	Check that all target compound and surrogate *%Ds* meet the applicable criteria.

Comments:

SEMIVOLATILE CALIBRATION OUTLIERS

Page 1

Lab Name: IEPA

Case: Sm Canal

Instrument # INC 500	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME:	RRF	6/19/92 1042			6/29/92 1025			6/30/92 839			7/1/92 1739					
		RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q
Phenol	0.800															
bis(2-Chloroethyl)ether	0.700															
2-Chlorophenol	0.800															
1,3-Dichlorobenzene	0.600															
1,4-Dichlorobenzene	0.500															
1,2-Dichlorobenzene	0.400															
2-Methylphenol	0.700															
2,2' oxybis(1-Chloropropanol)	0.010															
4-Methylphenol	0.600															
N-Nitroso-di-n-propylamine	0.500															
Hexachloroethane	0.300															
Nitrobenzene	0.200															
Isophorone	0.400															
2-Nitrophenol	0.100															
2,4-Dimethylphenol	0.200															
bis(2-Chloroethoxy)methane	0.300															
2,4-Dichlorophenol	0.200															
1,2,4-Trichlorobenzene	0.200															
Naphthalene	0.700															
4-Chloroaniline	0.010		38.0	J		45.0	J		39.1	J						
Hexachlorobutadiene	0.010															
4-Chloro-3-methylphenol	0.200															
2-Methylnaphthalene	0.400															
Hexachlorocyclopentadiene	0.010															
2,4,6-Trichlorophenol	0.200															
2,4,5-Trichlorophenol	0.200															
2-Chloronaphthalene	0.800															
2-Nitroaniline	0.010															
Dimethylphthalate	0.010															
Acenaphthylene	1.300															
2,6-Dinitrotoluene	0.200															
3-Nitroaniline	0.010		60.2	J		46.7	J		79.6	J						
Acenaphthene	0.800															
2,4-Dinitrophenol	0.010															
4-Nitrophenol	0.010															
Dibenzofuran	0.800															
2,4-Dinitrotoluene	0.200															

AFFECTED SAMPLES:

SBLKSL	SBLKSM	GPCBLKL1
X101	X102	GPCBLKM1
X103	X104	
X105	X401	
X201	X402	
X202	X403	
X203	X405	
X105MS	X406	
X105MSD	X402MS	
	X402MSD	

Reviewer's Initials/Date: Qm 8/24/92

3/92

Q - This column of flags should be applied to the analytes on the sample data sheets.

SEMIVOLATILE CALIBRATION OUTLIERS

Page 2

Lab Name: IEPA Case: Dam Cand

Instrument # INC500	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME:	RRF	6/19/92 1042			6/29/92 1025			6/30/92 839			7/1/92 1739					
		RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q
Diethylphthalate	0.010															
4-Chlorophenyl-phenylether	0.400															
Fluorene	0.900															
4-Nitroaniline	0.010											41.7	J			
4,6-Dinitro-2-methylphenol	0.010															
N-Nitrosodiphenylamine (1)	0.010															
4-Bromophenyl-ethylether	0.100															
Hexachlorobenzene	0.100															
Pentachlorophenol	0.050															
Phenanthrene	0.700															
Anthracene	0.700															
Carbazole	0.010															
Di-n-butylphthalate	0.010															
Fluoranthene	0.600															
Pyrene	0.600															
Butylbenzylphthalate	0.010															
3,3'-Dichlorobenzidine	0.010		33.8	J		33.0	J		53.9	J						
Benzo(a)anthracene	0.800															
Chrysene	0.700															
bis(2-Ethylhexyl)phthalate	0.010					26.4	J									
Di-n-octylphthalate	0.010								25.4	J						
Benzo(b)fluoranthene	0.700															
Benzo(k)fluoranthene	0.700								31.5	J						
Benzo(a)pyrene	0.700															
Indeno(1,2,3-cd)pyrene	0.500															
Dibenz(a,h)anthracene	0.400															
Benzo(g,h,i)perylene	0.500															
Nitrobenzene-d5	0.200															
2-Fluorobiphenol	0.700															
Terphenyl-d14	0.500															
Phenol-d6	0.800															
2-Fluorophenol	0.600															
2-Chlorophenol-d4	0.800															
1,2-Dichlorobenzene-d4	0.400															
4-Nitrophenol	0.010															
Dibenzofuran	0.800															
2,4-Dinitrotoluene	0.200															

3/92

Q - This column of flags should be applied to the analytes on the sample data sheets.

SEE PAGE 1 FOR AFFECTED SAMPLES

Reviewer's Initials/Date am 8/24/92

Data Validation Checklist
Site Name: A+M Canal
SDG No.: 217188
Laboratory: IEPA
Page 24 of 45

V. Blanks

Fraction: VOA (SemiVOA) Pest. *(circle one)*

1. ***Review Blank Results.***

YES NO
[X] [ ] Check all associated blanks for the presence of TCL compounds or TICs. Note all contaminated blanks ~~and associated samples~~ below.

2. ***Verify Blank Frequency.***

YES NO
[X] [ ] Check that blank analyses have been performed at the required frequency.

Blank Summary

Blank Sample No.	SBLKSL	SBLKSM	GPCBLKL1	GPCBLKM1
Date Anal. or Extr.	5/19 6/25	5/20 6/30	7/1	7/1
Instrument	INC500	INC500	INC500	INC500

TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount
Di-n-Bu	290						

TIC Comp'd.	Amount	TIC Comp'd.	Amount	TIC Comp'd.	Amount	TIC Comp'd.	Amount
		UNK RT 9.49	14000	UNK RT 9.54	210	UNK RT 9.52	7
						UNK 10.27	1

See next p. for TICs

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
p25 of 45
SBLKSL

Lab Name: ILLINOIS EPA Contract: 0990305026

Lab Code: SPFLD Case No.: CANAL SAS No.: _____ SDG No.: 217188

Matrix: (soil/water) SOIL Lab Sample ID: D217392

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0629W03

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

% Moisture: _____ decanted: (Y/N) N Date Extracted: 05/19/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 06/29/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 7

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIPHATIC KETONE	9.29	92000	AJ
2.	UNKNOWN	9.57	1400	J
3.	UNKNOWN	10.94	2300	J
4.	UNKNOWN ALIPHATIC KETONE	11.67	5600	AJ
5.	UNKNOWN ALIPHATIC KETONE	11.92	7300	AJ
6.	UNKNOWN	13.92	1900	J
7.	UNKNOWN ALIPHATIC ACID	23.34	710	J

Data Validation Checklist
Site Name: A x M Coal
SDG No.: 217188
Laboratory: IEPA
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VI. Surrogate Spikes

GC/MS

Fraction: VOA SemiVOA (*circle one*)

1. ***Review Raw Data.***

YES NO
[X] [ ] Check raw data to verify that the recoveries on the Form II are accurate and within the limits.

2. ***Evaluate Surrogate Recovery Calculations.***

YES NO
[X] [ ] Check that the surrogate spike recoveries were calculated correctly and are free from transcription errors.

3 ***Evaluate Surrogate Recoveries.***

YES NO
a. [X] [ ] Check that reanalyses were performed as required.

b. [X] [ ] Check that surrogate recoveries in blanks met criteria.

4. ***Evaluate Reanalyses.***

YES NO
[ ] [X] Whenever there are two or more analyses for a particular sample, determine which are the best analyses to use. This determination must be performed in conjunction with the evaluation of the internal standard area response criteria. List below the results of the reviewers determinations.

No reanalyses.

Comments:
1) X401 - Nitrobenzene ds, 2-Fluorobiphenyl, + Terphenyl d14 high %Rs
X403 Terphenyl d14 high %R
X405 2-Fluorobiphenyl + DCB high %Rs
3a) X401 - 3 b/n surrogates out with no reanalysis.

Data Validation Checklist
Site Name: Sam Canal
SDG No.: 217188
Laboratory: IEPA
Page 27 of 45

VII. Matrix Spikes/Matrix Spike Duplicates

Fraction: VOA (SemiVOA) Pesticide *(circle one)*

1. *Verify Frequency*

YES NO
[X] [ ] Check that MS and MSD samples were analyzed at the correct frequency.

2. *Evaluate MS/MSD Criteria.*

YES NO
[X] [ ] Check MS/MSD results for *%R* and *RPD* are within the advisory limits.

3. *Verify MS/MSD Calculations.*

YES NO
a. [X] [ ] Check raw data and verify that results are calculated correctly and are free from transcription errors.

b. [X] [ ] Check that *%Rs* and *RPDs* were calculated correctly.

4. *Evaluate Sample Precision.*

YES NO
[X] [ ] Compare *%RSD* results of non-spiked compounds between the original result, MS and MSD.

	Compound	Orig. Result	MS Result	MSD Result	%RSD
X105	Di-n-Butylphthalate	210	~~200~~ 100	~~210~~ 110	43%
X402	2-Methylnaphthalene	200,000	4500	~~[illegible]~~ 2000	165%
	Phenanthrene	230,000	5300	2600	165%

Comments:
X402 MS/MSD - all low % Rs
Pentachlorophenol high RPD
X105 MS/MSD - all low % Rs except 4-Nitrophenol in MS & MSD
& Pentachlorophenol in MS.

Data Validation Checklist
Site Name: Lam Canal
SDG No.: 217188
Laboratory: IEPA
Page 28 of 45

X. Internal Standards

GC/MS

Fraction: VOA (SemiVOA) *(circle one)*

1. *Evaluate Raw Data.*

YES NO
[X] [ ] Check raw data and verify that the internal standard retention times and areas reported on the Forms VIII are correct.

2. *Verify RT and IS Area Criteria.*

YES NO
[X] [ ] Check that retention times and internal standard area meet the appropriate criteria.

3. *Evaluate Reanalyses.*

YES NO
[ ] [X] Whenever there are two or more analyses for a particular sample, determine which are the best analyses to use. This determination must be performed in conjunction with the evaluation of the surrogate spike recovery criteria. List the results of the reviewers determinations in Section VI., Surrogate Spikes.

No reanalyses.

Comments:
X105MS - Acenaphthene d10 area high

XI. Target Compound Identification

GC/MS

Fraction: VOA (SemiVOA) *(circle one)*

1. ***Verify Relative Retention Time (RRT) Criteria.***

YES	NO	
[X]	[ ]	Check that the RRT of reported compounds is within the criteria.

2. ***Evaluate Target Compound Spectra.***

YES	NO	
[X]	[ ]	Check the sample target compound spectra against the laboratory standard spectra; verify that the specified criteria are met.

3. ***Evaluate Possible Carryover.***

YES	NO	
[X]	[ ]	Check the raw data of the samples as related to the samples analyzed previously to verify that sample carryover has not adversely affected results.

4. ***Evaluate Chromatograms.***

YES	NO	
[X]	[ ]	Check the sample chromatograms to verify that peaks are accounted for.

Comments:

XII. Compound Quantitation and Reported CRQLs

Fraction: VOA SemiVOA Pesticide (*circle one*)

1. ***Evaluate Quantitation of Sample Results.***

YES	NO	
[X]	[ ]	Check raw data to verify calculation of sample results.

2. ***Evaluate Quantitation Parameters.***

YES	NO	N/A	
[X]	[ ]	[ ]	For GC/MS analyses, check that the correct internal standard, quantitation ion, and *RRF* were used to quantitate results. Verify that the same internal standard, quantitation ion, and *RRF* are used throughout, in both the calibration and as well as the quantitation process.

3. ***Evaluate CRQLs.***

YES	NO	
[X]	[ ]	Check that the CRQLs have been adjusted to reflect all sample dilutions, concentrations, splits, cleanup activities, and dry weight factors.

Comments:

XIII. Tentatively Identified Compounds

GC/MS Only

Fraction: VOA SemiVOA (*circle one*)

1. ***Evaluate Tentative Identifications.***

YES	NO	
[X]	[ ]	Check that all TICs reported meet the identification guidelines.

2. ***Evaluate Raw Data.***

YES	NO	
[X]	[ ]	Check raw data to verify that the laboratory has generated a library search for all required peaks in the chromatograms for samples and blanks.

3. ***Evaluate Blanks.***

YES	NO	
[X]	[ ]	Check blank sample chromatograms to verify that TIC peaks present in samples are not found in blanks.

4. ***Examine Mass Spectra.***

YES	NO	
[X]	[ ]	Check all mass spectra for every sample.

5. ***Evaluate TIC Identifications.***

YES	NO	
[X]	[ ]	Since TIC library searches often yield several candidate compounds, all reasonable choices must be considered.

6. ***Evaluate Laboratory Artifacts and Contaminants.***

YES	NO	
[X]	[ ]	Check sample results and raw data to verify that common laboratory artifacts and contaminants are not reported as sample contaminants.

XIII. TICs continued

7. ***Evaluate Possibility of False Negatives.***

	YES	NO	N/A	
a.	[X]	[ ]	[ ]	Check to determine if target compounds have been identified and quantitated as TICs.
b.	[ ]	[ ]	[X]	If target compounds have been identified and quantitated as TICs, check to determine whether the false negative is an isolated occurrence or whether additional data may be affected. Comment on all such false negatives below.

8. ***Determine That Results Are From Proper Fraction.***

YES	NO	N/A	
[ ]	[ ]	[X]	Target compounds could be identified in more than one fraction; if this occurs, check that quantitation is from the proper fraction.

9. ***Verify That Internal Standards And Surrogates Are Not Searched.***

YES	NO	
[X]	[ ]	Check that library searches were not performed on internal standards or surrogates.

10. ***Verify Estimated Quantitation of TICs.***

YES	NO	
[X]	[ ]	Check that the estimated concentration of the TICs was made using an assumed *RRF* of one.

Comments:
Sample X402 - A spectrum & library search is included for a TIC at RT 19.43, but TIC is not reported on Form 1.

XIV. GC/MS System Performance

Fraction: VOA (SemiVOA) *(circle one)*

1. Evaluate Overall System Performance.

	YES	NO	
a.	[X]	[ ]	Check for high RIC background levels or shifts in absolute retention times of internal standards.
b.	[X]	[ ]	Check for excessive baseline rise at elevated temperature.
c.	[X]	[ ]	Check for extraneous peaks.
d.	[X]	[ ]	Check for loss of resolution.
e.	[X]	[ ]	Check for peak tailing or peak splitting that may result in inaccurate quantitation.

Comments:

II. Pesticide Instrument Performance Check

1. ***Resolution Check Mixture***

	YES	NO	
a.	[X]	[ ]	Check the Form VIII PEST. to determine that the resolution check mixture(s) was analyzed in the proper sequence.
b.	[X]	[ ]	Check the resolution check mixture data and the Form VI PEST.-4 to verify that the resolution criterion was met.

2. ***Performance Evaluation Mixture***

	YES	NO	
a.	[X]	[ ]	Check the Form VII PEST. to determine that the PEM(s) was analyzed at the proper frequency and position in the initial calibration sequence.
b.	[X]	[ ]	Check the PEM data from the initial and continuing calibrations to verify that the resolution criterion was met.
c.	[X]	[ ]	Check the PEM data from the initial and continuing calibrations and Form VII PEST.-1 to verify that the retention times are within the retention time windows.
d.	[X]	[ ]	Check that the *RPDs* meet the criterion.
e.	[X]	[ ]	Check that the breakdowns for 4,4'-DDT and Endrin meet the criteria.

Comments:

III. Initial Calibration

PESTICIDES

1. Individual Standard Mixtures.

	YES	NO	
a.	[X]	[ ]	Check the Form VIII PEST to verify that the Individual Standard Mixtures were analyzed at the proper frequency for each GC column and instrument. Check that the proper concentrations were used.
b.	[X]	[ ]	Check the raw data to determine that the midpoint standard is at the proper concentration and verify that the resolution criterion has been met for each midpoint concentration standard.
c.	[X]	[ ]	Check the Individual Standard Mixture data and Form VI PEST.-1 and review the calculated retention time windows for calculation and transcription errors.
d.	[X]	[ ]	Check the Individual Standard Mixture data and Form VI PEST.-2 to verify that the *%RSDs* for the calibration factors meet the criterion. Check and recalculate several *%RSDs* for errors.

2. Multi Component Compounds.

a.	[X]	[ ]	Check the raw data and the Form VIII PEST. to verify that the Multi-component Standards were analyzed at the proper concentration and frequency for each GC column and instrument.
b.	[X]	[ ]	Check the raw data and Form VI PEST.-3 to verify that at least three peaks were used for calibration and that retention time and calibration factor data are available for each peak.

Comments:

IV. Continuing Calibration

PESTICIDES

1. ***Evaluate Continuing Calibration Standards.***

YES	NO	
[X]	[ ]	Check the Form VIII PEST to verify that the Instrument Blanks, PEMs, and Individual Standard Mixtures were analyzed at the proper frequency and that no more than 12:00 hours elapsed between calibration brackets in an ongoing analytical sequence.

2. ***Individual Standard Mixtures Resolution.***

YES	NO	
[X]	[ ]	Check the data for the midpoint concentration of the Individual Standard Mixtures to verify that the resolution criteria was met.

3. ***Individual Standard Mixtures Retention Times***

YES	NO	
[X]	[ ]	Check the data for each of the single component pesticides and surrogates in the midpoint concentration of the Individual Standard Mixtures to verify that the retention times are within the appropriate windows.

4. ***Evaluate Continuing Calibration RPDs.***

YES	NO	
[X]	[ ]	Check the data for the midpoint concentration of the Individual Standard Mixtures and Form VII PEST.-2 to verify that the *RPDs* between the calculated amount and the true amount for each of the pesticides and surrogates meet the criterion.

Comments:

Data Validation Checklist
Site Name: D+M Canal
SDG No.: 217188
Laboratory: IEPA
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V. Blanks

Fraction: VOA SemiVOA Pest. (*circle one*)

1. *Review Blank Results.*

YES NO
[X] [ ] Check all associated blanks for the presence of TCL compounds or TICs. Note all contaminated blanks ~~and associated samples~~ below.

2. *Verify Blank Frequency.*

YES NO
[X] [ ] Check that blank analyses have been performed at the required frequency. All instrument blks. OK.

Blank Summary

Blank Sample No.	PBLK51	PBLK52		
Date Anal. or Extr.	5/20 7/9	5/22 7/11		
Instrument	HP 1+2	HP 1+2		

TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount
		Dieldrin	8.6				

TIC Comp'd.	Amount	TIC Comp'd.	Amount	TIC Comp'd.	Amount	TIC Comp'd.	Amount
N/A		N/A					

Data Validation Checklist
Site Name: D&M Canal
SDG No.: 217188
Laboratory: ICPA
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VI. Surrogate Spikes

Pesticides

1. ***Review Raw Data.***

YES	NO	
[X]	[ ]	Check raw data to verify that the recoveries on the Form II are accurate and within the limits.

2. ***Evaluate Surrogate Recovery Calculations.***

YES	NO	
[X]	[ ]	Check that the surrogate spike recoveries were calculated correctly and are free from transcription errors.

3 ***Evaluate Possible Interferences.***

YES	NO	N/A	
[X]	[ ]	[ ]	If surrogate spike recoveries are not acceptable, check the raw data for possible interferences which may have effected surrogate recoveries.

4. ***Evaluate Retention Times.***

YES	NO	N/A	
[ ]	[ ]	[X]	If retention time limits are not met, check the raw data for possible misidentification of GC peaks.

5. ***Evaluate Any Low Recoveries.***

YES	NO	N/A	
[X]	[ ]	[ ]	If low surrogate recoveries are observed, check whether low recoveries are due to sample dilution.

6. ***Evaluate Surrogate Analyses in Blanks.***

YES	NO	
[X]	[ ]	Check that all surrogate analysis criteria (retention time and advisory recovery criteria) were met in all blank samples.

Comments:
See next pages.

Pest Surrogates:

PBLKS1	TCX (both col) low % R
	DCB (DB608) low % R
	(DB1701) 0% R - Diluted out
PBLKS2	TCX + DCB (both col) high % R
X101	TCX (DB608) low % R
	(DB1701) 0% R - Diluted out
	DCB (both col) low % R
X102	TCX (DB608) low % R
	(DB1701) 0% R - Diluted out
	DCB (DB608) 0% R - Diluted out
	(DB1701) low % R
X103	TCX (DB608) 0% R - Diluted out
	(DB1701) low % R
	DCB (both col) 0% R - Diluted out
X104	TCX + DCB (both col) low % R
X105	TCX (DB608) low % R
	(DB1701) 0% R - Diluted out
	DCB (both col) low % R
X201	TCX + DCB (both col) low % R
X202	TCX (DB608) low % R
	(DB1701) 0% - Diluted out
	DCB (both col) low % R
X203	TCX (DB1701) 0% R - Diluted out
X401	TCX (DB1701) low % R
	DCB (both col) 0% R - Diluted out

Pest Surrogates cont'

X402 TCX (DB 1701) low % R
DCB (DB 608) 0% R Diluted out
X403 TCX (DB 1701) low % R
DCB (both col) 0% R Diluted out
X405 TCX (DB 1701) low % R
DCB (both col) low % R
X406 TCX (DB 1701) low % R
DCB (both col) low % R
X105MS/MSD TCX & DCB (both col) high % R
X402MS TCX (both col) low % R
DCB (DB 608) 0% R Diluted out
X402MSD TCX (both col) low % R
DCB (DB 608) 0% R Diluted out
(DB 1701) low % R

Data Validation Checklist
Site Name: D+M Canal
SDG No.: 217188
Laboratory: IEPA
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VII. Matrix Spikes/Matrix Spike Duplicates

Fraction: VOA SemiVOA Pesticide (*circle one*)

1. *Verify Frequency*

YES NO
[X] [ ] Check that MS and MSD samples were analyzed at the correct frequency.

2. *Evaluate MS/MSD Criteria.*

YES NO
[X] [ ] Check MS/MSD results for *%R* and *RPD* are within the advisory limits.

3. *Verify MS/MSD Calculations.*

YES NO
a. [X] [ ] Check raw data and verify that results are calculated correctly and are free from transcription errors.

b. [X] [ ] Check that *%Rs* and *RPDs* were calculated correctly.

4. *Evaluate Sample Precision.*

YES NO
[X] [ ] Compare *%RSD* results of non-spiked compounds between the original result, MS and MSD.

Compound	Orig. Result	MS Result	MSD Result	%RSD
X105 - No non-spiked compounds detected.				
X402 -				
4,4 - DDD	200	130	140	24%
Toxaphene	24,000	"	"	—
Aroclor - 1242	16,000	17,000	14,000	9.8%

Comments:
X105 MS/MSD Dieldrin ~ 4,4 DDT high %Rs
X402 MS/MSD gamma BHC 0%R
Heptachlor high %R
Aldrin (MS high %R, MSD 0% R) high RPD
Dieldrin low %R

Data Validation Checklist
Site Name: D+M Canal
SDG No.: 217188
Laboratory: IEPA
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X. Pesticide Cleanup Checks

1. ***Florisil Cartridge Check.***

	YES	NO	
a.	[X]	[ ]	Check the data from the Florisil cartridge solution analyses and the Form IX PEST.-1 and check some of the *%R* calculations; verify that there are no calculation or transcription errors.
b.	[X]	[ ]	Check all criteria have been met.

2. ***Gel Permeation Chromatography.***

	YES	NO	
a.	[X]	[ ]	Check the data from the GPC calibration check analyses and the Form IX PEST.-2 and recalculate some of the *%R* results; verify that there are no calculation or transcription errors.
b.	[X]	[ ]	Check all criteria have been met and that Arochlor patterns are similar to those of previous standards.

Comments:
1a) 4,4 DDT 122.5% (slightly high %R)
TCX 122.0% (slightly high %R)

2a) Endrin 111.4% (slightly high %R)
4,4-DDT 110.8% (slightly high %R)

b) No Aroclor patterns in GPC calib check mixture analysis.

XI. Target Compound Identification

Pesticides

1. ***Evaluate Reported Results.***

	YES	NO	
a.	[X]	[ ]	Check the Form I PEST., the associated raw data, and Form X PEST.-1 and Form X PEST.-2 to confirm reported detected analytes.
b.	[X]	[ ]	Check the Form I PEST., the associated raw data, and Form X PEST.-1 and Form X PEST.-2 to confirm reported non-detects.
c.	[X]	[ ]	Check the associated blank data for potential interferences to evaluate sample data for false positives.
d.	[X]	[ ]	Check the calibration data for adequate retention time windows to evaluate the sample data for false positives and false negatives.

2. ***Evaluate Multi-Component Analyte Results.***

YES	NO	
[X]	[ ]	Compare the retention times and relative peak height ratios of major multi-component analyte peaks against appropriate standard chromatograms.

3. ***Verify GC/MS Confirmations if Applicable.***

YES	NO	N/A	
[X]	[ ]	[ ]	Check that GC/MS confirmation was performed for pesticide concentrations in the final sample extract which exceeded 10 ng/ul.

Comments:
3. X203 - GC/MS confirmation required for Aroclor-1242 but not performed.

XII. Compound Quantitation and Reported CRQLs

Fraction: VOA SemiVOA Pesticide (*circle one*)

1. ***Evaluate Quantitation of Sample Results.***

YES	NO	
[X]	[ ]	Check raw data to verify calculation of sample results.

2. ***Evaluate Quantitation Parameters.***

YES	NO	N/A	
[ ]	[ ]	[X]	For GC/MS analyses, check that the correct internal standard, quantitation ion, and *RRF* were used to quantitate results. Verify that the same internal standard, quantitation ion, and *RRF* are used throughout, in both the calibration and as well as the quantitation process.

3. ***Evaluate CRQLs.***

YES	NO	
[X]	[ ]	Check that the CRQLs have been adjusted to reflect all sample dilutions, concentrations, splits, cleanup activities, and dry weight factors.

Comments:

XV. Overall Assessment of Data

Evaluate the Overall Quality of the Data.

YES	NO	
[X]	[ ]	Evaluate any technical problems which have not been previously addressed.
[X]	[ ]	Review all available materials to assess the overall quality of the dada, keeping in mind the additive nature of analytical problems.
[X]	[ ]	If appropriate information is available, assess the usability of the data to assist the data user in avoiding inappropriate use of the data. Review all available information, including the QAPjP, SAP, and communications with the data user that concerns the intended use of the data.

Provide a brief narrative to give the data user an indication of the analytical limitations of the data. Include any details from the above checks. Any inconsistency of the data with the Case Narrative should be noted. If sufficient information is available, the reviewer should give an assessment of the usability of the data within the given context.

Data qualified as indicated on Form 1's.
QM

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

Date: August 28, 1992

Subject: Review of CLP Data

From: Ron Turpin
Contract Laboratories Administrator
Division of Laboratories

To: Data User: Sheila Murphy

The Quality Assurance Section has reviewed the following data package(s):

SITE NAME: I&M Canal

CASE/SDG No.: 21718B / 75

Date(s) Received for Review: 27-Jul-92 05-Aug-92

No. of Samples: 13 Soils

Laboratory(s): IEPA

Hours Used for Review: 15 + 26 = 41

Reviewer(s): Alicia Mudd
Chris Bridges

The following narrative represents our findings:

the Results are valid as qualified on the enclosed Forms 1.

- ☐ Data are acceptable for use.
- ☒ Data are acceptable for use with qualifications noted above.
- ☐ Data are preliminary - pending verification by laboratory.
- ☐ Data are unacceptable.

cc: Karl Reed
Tom Crause

Q.1

IEPA - CLP
CHAIN OF CUSTODY

D217188

Seal # 7397

Date Sealed: 5/12/92 By: RKM

Facility
Name : U.S. EPA-I AND M CANAL
Region: ROCKFORD
County: LaSALLE

Site Inventory # : 0990305026
Site Billing Code: SA06-660
Project Manager : SHEILA MURPHY

Laboratory #	Sample I.D.	Sample Date	Sample Time
D217188	~~X104~~ X101	5-13-92	2:45 pm

Sample Appearance : Brown sandy / pebbly fill material

Collector Comments: 30 Day Turnaround

Sampler Signature : Gregory D — Division/Company IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	14	2oz		VOA	N		
1	10	32oz		BNA,PEST/PCB	N		

CHAIN OF CUSTODY CHRONICLE

D217188

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Sheila Murphy Signature: Sheila Murphy

Date: 5-13-92 Time: 9:12 A Seal #: 7397 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Sheila Murphy Signature: Sheila Murphy

Date: 5-13-92 Time: 3:05 p Seal # 7398

Courier - Sample Pickup: IEPA Personnel

Courier - Sample Delivery: SHEILA MURPHY

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): HARVEY EDWARDS Signature: Harvey Edwards

Date: 5-14-92 Time: 10:00 AM Seal #: 7398 Intact?: (Y) / N

Lab Name: SPFLD #22 Comments:

IEPA - CLP
CHAIN OF CUSTODY

D217189

Seal # 7397
Date Sealed: 5/12/92 By: RKM

Facility
Name : U.S. EPA-I AND M CANAL
Region: ROCKFORD
County: LaSALLE

Site Inventory # : 0990305026
Site Billing Code: SA06-660
Project Manager : SHEILA MURPHY

Laboratory #	Sample I.D.	Sample Date	Sample Time
D217189	X102	5-13-92	2:10pm

Sample Appearance : Black, Tar-like

Collector Comments: 30 Day Turnaround

Sampler Signature : [signature] Division/Company IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	14	2oz		VOA	N		
1	10	32oz		BNA,PEST/PCB	N		

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

D217189

Opened by (print): Sheila Murphy Signature: Sheila Murphy

Date: 5-13-92 Time: 9:12 A Seal #: 7397 Intact? Y / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Sheila Murphy Signature: Sheila Murphy

Date: 5-13-92 Time: 3:05 p Seal # 7398

Courier - Sample Pickup: IEPA Personnel

Courier - Sample Delivery: SHEILA MURPHY

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): HARVEY EDWARDS Signature: Harvey Edwards

Date: 5-14-92 Time: 10:00 AM Seal #: 7398 Intact?: Y / N

Lab Name: SPFLD #22 Comments:

IEPA - CLP
CHAIN OF CUSTODY

D217190 Seal # 7427

Date Sealed: 5/12/92 By: RKM

Facility
Name : U.S. EPA-I AND M CANAL
Region: ROCKFORD
County: LaSALLE

Site Inventory # : 0990305026
Site Billing Code: SA06-660
Project Manager : SHEILA MURPHY

Laboratory #	Sample I.D.	Sample Date	Sample Time
D217190	X103	5-13-92	3:25p

Sample Appearance : Organic Decay Material

Collector Comments: 30. Day Turnard

Sampler Signature : Hugo W. D— Division/Company IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	14	2oz		VOA	N		
1	10	32oz		BNA,PEST/PCB	N		

D217189

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact. D217190

Opened by (print): Sheila Murphy Signature: Sheila Murphy

Date: 5-13-92 Time: 3:10 p Seal #: 7427 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Sheila Murphy Signature: Sheila Murphy

Date: 5-13-92 Time: 5:45pm Seal # 7428

Courier - Sample Pickup: IEPA Personnel

Courier - Sample Delivery: SHEILA MURPHY

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): HARVEY EDWARDS Signature: Harvey Edwards

Date: 5-14-92 Time: 10:00 AM Seal #: 7428 Intact?: (Y) N

Lab Name: SPFLD #22 Comments:

IEPA - CLP
CHAIN OF CUSTODY

D217191

Seal # 7427
Date Sealed: 5/12/92 By: RKM

Facility
Name : U.S. EPA-I AND M CANAL
Region: ROCKFORD
County: LaSALLE

Site Inventory # : 0990305026
Site Billing Code: SA06-660
Project Manager : SHEILA MURPHY

Laboratory #	Sample I.D.	Sample Date	Sample Time
D217191	X104	5-13-92	3:40p

Sample Appearance : Black, Tar-like

Collector Comments: 30 Day Turnaround

Sampler Signature : [signature] Division/Company IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	14	2oz		VOA	N		
1	10	32oz		BNA,PEST/PCB	N		

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Sheila Murphy Signature: Sheila Murphy

Date: 5-13-92 Time: 3:10p Seal #: 7427 Intact?: Y / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Sheila Murphy Signature: Sheila Murphy

Date: 5-13-92 Time: 5:45pm Seal # 7428

Courier - Sample Pickup: IEPA Personnel

Courier - Sample Delivery: SHEILA MURPHY

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): HARVEY EDWARDS Signature: Harvey Edwards

Date: 5-14-92 Time: 10:00 AM Seal #: 7428 Intact?: Y / N

Lab Name: SPECD #22 Comments:

IEPA - CLP
CHAIN OF CUSTODY

D217192

Seal # 7427

Date Sealed: 5/12/92 By: RKM

Facility
Name : U.S. EPA-I AND M CANAL
Region: ROCKFORD
County: LaSALLE

Site Inventory # : 0990305026
Site Billing Code: SA06-660
Project Manager : SHEILA MURPHY

Laboratory #	Sample I.D.	Sample Date	Sample Time
D217192	X105	5-13-92	5:35pm

Sample Appearance : Dark Brown silty loam

Collector Comments: 30 Day Turnard

Sampler Signature : [signature] Division/Company IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	14	2oz		VOA	N		
1	10	32oz		BNA.PEST/PCB	N		

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Sheila Murphy Signature: [signature]

Date: 5-13-92 Time: 3:10p Seal #: 7427 Intact?: (Y) N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Sheila Murphy Signature: [signature]

Date: 5-13-92 Time: 5:45pm Seal # 7428

Courier - Sample Pickup: IEPA Personnel

Courier - Sample Delivery: SHEILA MURPHY

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): HARVEY EDWARDS Signature: [signature]

Date: 5-14-92 Time: 10:00AM Seal #: 7428 Intact?: (Y) N

Lab Name: SPFLD #22 Comments:

IEPA - CLP
CHAIN OF CUSTODY

D217193 Seal # 7427

Date Sealed: 5/12/92 By: RKM

Facility
Name : U.S. EPA-I AND M CANAL
Region: ROCKFORD
County: LaSALLE

Site Inventory # : 0990305026
Site Billing Code: SA06-660
Project Manager : SHEILA MURPHY

Laboratory #	Sample I.D.	Sample Date	Sample Time
D217193	XX201	5-13-92	5:05p

Sample Appearance : Brown Silt

Collector Comments: 30 Day Turnaround

Sampler Signature : Gregory M. D— Division/Company IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preserv.		(Y/N)	Date	Time
2	14	2oz		VOA	N		
1	10	32oz		BNA,PEST/PCB	N		

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Sheila Murphy Signature: Sheila Murphy

Date: 5-13-92 Time: 3:10p Seal #: 7427 Intact?: (Y) N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Sheila Murphy Signature: Sheila Murphy

Date: 5-13-92 Time: 5:45p Seal # 7428

Courier - Sample Pickup: IEPA Personnel

Courier - Sample Delivery: SHEILA MURPHY

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): HARVEY EDWARDS Signature: Harvey Edwards

Date: 5-14-92 Time: 10:00 AM Seal #: 7428 Intact?: (Y) N

Lab Name: SPECD #22 Comments:

IEPA - CLP
CHAIN OF CUSTODY

D217194 Seal # 7427

Date Sealed: 5/12/92 By: RKM

Facility
Name : U.S. EPA-I AND M CANAL
Region: ROCKFORD
County: LaSALLE

Site Inventory # : 0990305026
Site Billing Code: SA06-660
Project Manager : SHEILA MURPHY

Laboratory #	Sample I.D.	Sample Date	Sample Time
D217194	X 202	5-13-92	4:45 pm

Sample Appearance : Gray to Black silty mud w/ overlying thin layer of orange-red material

Collector Comments: 30 Day Turnard

Sampler Signature : [signature] Division/Company IEPA

CONTAINER			ANALYSIS	FILTERING		
No.	Code	Size		(Y/N)	Date	Time
2	14	2oz	VOA	N		
1	10	32oz	BNA,PEST/PCB	N		

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Sheila Murphy Signature: Sheila Murphy

Date: 5-13-92 Time: 3:10p Seal #: 7427 Intact?: Y / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Sheila Murphy Signature: Sheila Murphy

Date: 5-13-92 Time: 5:45pm Seal # 7428

Courier - Sample Pickup: IEPA Personnel

Courier - Sample Delivery: SHEILA MURPHY

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): HARVEY EDWARDS Signature: Harvey Edwards

Date: 5-14-92 Time: 10:00 AM Seal #: 7428 Intact?: Y / N

Lab Name: SPFLD #22 Comments:

IEPA - CLP
CHAIN OF CUSTODY

D217195 Seal # 7427

Date Sealed: 5/12/92 By: RKM

Facility
Name : U.S. EPA-I AND M CANAL
Region: ROCKFORD
County: LaSALLE

Site Inventory # : 0990305026
Site Billing Code: SA06-660
Project Manager : SHEILA MURPHY

Laboratory #	Sample I.D.	Sample Date	Sample Time
D217195	X203	5-13-92	4:20p

Sample Appearance : Brown fine-grained silt w/ coal finds?

Collector Comments: 30 Day Turnaround

Sampler Signature : Gregory W. D — Division/Company IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser.		(Y/N)	Date	Time
2	14	2oz		VOA	N		
1	10	32oz		BNA,PEST/PCB	N		

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Sheila Murphy Signature: Sheila Murphy

Date: 5-13-92 Time: 3:10 pm Seal #: 7427 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Sheila Murphy Signature: Sheila Murphy

Date: Time: 5:45pm Seal # 7428

Courier - Sample Pickup: IEPA Personnel

Courier - Sample Delivery: SHEILA MURPHY

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): HARVEY EDWARDS Signature: Harvey Edwards

Date: 5-14-92 Time: 10:00 AM Seal #: 7428 Intact?: (Y) / N

Lab Name: SPFLD #22 Comments:

IEPA - CLP
CHAIN OF CUSTODY

D217196

Seal # 7397
Date Sealed: 5/12/92 By: RKM

Facility
Name: U.S. EPA-I AND M CANAL
Region: ROCKFORD
County: LaSALLE

Site Inventory # : 0990305026
Site Billing Code: SA06-660
Project Manager : SHEILA MURPHY

Laboratory #	Sample I.D.	Sample Date	Sample Time
D217196	X401	5-13-92	11:40 A

Sample Appearance : Black, tar-like

Collector Comments: 30 Day Turnaround

Sampler Signature : Gregory W. D— Division/Company IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	14	2oz		VOA	N		
1	10	32oz		BNA,PEST/PCB	N		

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Sheila Murphy Signature: Sheila Murphy

Date: 5-13-92 Time: 9:12 A Seal #: 7397 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Sheila Murphy Signature: Sheila Murphy

Date: 5-13-92 Time: 3:05 p. Seal # 7398

Courier - Sample Pickup: IEPA Personnel

Courier - Sample Delivery: SHEILA MURPHY

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): HARVEY EDWARDS Signature: Harvey Edwards

Date: 5-14-92 Time: 10:00 Seal #: 7398 Intact?: (Y) / N

Lab Name: SPFLD #22 Comments:

IEPA - CLP
CHAIN OF CUSTODY

U217197

Seal # 7397

Date Sealed: 5/12/92 By: RKM

Facility
Name : U.S. EPA-I AND M CANAL
Region: ROCKFORD
County: LaSALLE

Site Inventory # : 0990305026
Site Billing Code: SA06-660
Project Manager : SHEILA MURPHY

Laboratory #	Sample I.D.	Sample Date	Sample Time
U217197	X402	5-13-92	10:45 A

Sample Appearance : Taupe Color - Very fine grain, dry, with black tar-like material

Collector Comments: 30 Day Turnaround

Sampler Signature : Gregory W. D— Division/Company IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	14	2oz		VOA	N		
1	10	32oz		BNA,PEST/PCB	N		

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Sheila Murphy Signature: Sheila Murphy

Date: 5-13-92 Time: 9:12 A Seal #: 7397 Intact? (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Sheila Murphy Signature: Sheila Murphy

Date: 5-13-92 Time: 3:05 p Seal # 7398

Courier - Sample Pickup: IEPA Personnel

Courier - Sample Delivery: SHEILA MURPHY

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): HARVEY EDWARDS Signature: Harvey Edwards

Date: 5-14-92 Time: 10:00 AM Seal #: 7398 Intact? (Y) / N

Lab Name: SPFLD #22 Comments:

IEPA - CLP
CHAIN OF CUSTODY

Seal # 7397

Date Sealed: 5/12/92 By: RKM

Facility
Name : U.S. EPA-I AND M CANAL
Region: ROCKFORD
County: LaSALLE

Site Inventory # : 0990305026
Site Billing Code: SA06-660
Project Manager : SHEILA MURPHY

Laboratory #	Sample I.D.	Sample Date	Sample Time
	X403	5-13-92	12:40 p.m

Sample Appearance : Black tar-like

Collector Comments: 30 Day Turnaround

Sampler Signature: Gregory W. O— Division/Company IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	14	2oz		VOA	N		
1	10	32oz		BNA,PEST/PCB	N		

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Sheila Murphy Signature: Sheila Murphy

Date: 5-13-92 Time: 9:12 A Seal #: 7397 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Sheila Murphy Signature: Sheila Murphy

Date: 5-13-92 Time: 3:05 p Seal # 7398

Courier - Sample Pickup: IEPA Personnel

Courier - Sample Delivery: SHEILA MURPHY

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): HARVEY EDWARDS Signature: Harvey Edwards

Date: 5-14-92 Time: 10:00 Am Seal #: 7398 Intact?: (Y) / N

Lab Name: SPFLD #22 Comments:

IEPA - CLP
CHAIN OF CUSTODY

Seal # 7397

Date Sealed: 5/12/92 By: RKM

Facility
Name : U.S. EPA-I AND M CANAL
Region: ROCKFORD
County: LaSALLE

Site Inventory # : 0990305026
Site Billing Code: SA06-660
Project Manager : SHEILA MURPHY

Laboratory #	Sample I.D.	Sample Date	Sample Time
	X405	5-13-92	1:15 pm

Sample Appearance : Block Tar-like

Collector Comments: 30 Day Turnaround

Sampler Signature : Gregory W. D— Division/Company IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	14	2oz		VOA	N	5-13-92	
1	10	32oz		BNA,PEST/PCB	N	"	

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Sheila Murphy Signature: Sheila Murphy

Date: 5-13-92 Time: 9:12A Seal #: 7397 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Sheila Murphy Signature: Sheila Murphy

Date: 5-13-92 Time: 3:05p Seal # 7398

Courier - Sample Pickup: IEPA Personnel

Courier - Sample Delivery: SHEILA MURPHY

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): HARVEY EDWARDS Signature: Harvey Edwards

Date: 5-14-92 Time: 10:00 AM Seal #: 7398 Intact?: (Y) / N

Lab Name: SPFLD #22 Comments:

IEPA - CLR
CHAIN OF CUSTODY

Seal # 7397

Date: 5/12/92 By: RKM

Facility
Name : U.S. EPA-I AND M CANAL
Region: ROCKFORD
County: LaSALLE

Site Inventory # : 0990305026
Site Billing Code: SA06-660
Project Manager : SHEILA MURPHY

Laboratory #	Sample I.D.	Sample Date	Sample Time
	X406	5-13-92	1:30 pm

Sample Appearance : Block, tan-like

Collector Comments: 30 Day Turnaround

Sampler Signature: Gregory N. D— Division/Company: IEPA

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	14	2oz		VOA	N		
1	10	32oz		BNA,PEST/PCB	N		

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Sheila Murphy Signature: Sheila Murphy

Date: 5-13-92 Time: 9:12 A Seal #: 7397 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Sheila Murphy Signature: Sheila Murphy

Date: 5-13-92 Time: 3:05 p Seal # 7398

Courier - Sample Pickup: IEPA Personnel

Courier - Sample Delivery: SHEILA MURPHY

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): HARVEY EDWARDS Signature: Harvey Edwards

Date: 5-14-92 Time: 10:00 AM Seal #: 7398 Intact?: (Y) / N

Lab Name: SPECD #22 Comments:

See Non-duplicated files from Don Woods, DOC, for possible sampler Lisa Kumar of Weston

GRACE ANALYTICAL LAB. INC.
5300-B MCDERMOTT DRIVE, BERKELEY, ILLINOIS 60163

F001 - F005 SOLVENT WASTES ANALYSIS DATA SHEET

STUDY NAME: Weston-90WT03 STUDY NO: GAL-900402

LAB SAMPLE I.D. NO: S-80 FILE REF. NO: >V0358

	CAS #	COMPOUND	AMOUNT (ug/kg)	
1.	67-64-1	ACETONE	75	U
2.	71-43-2	BENZENE	1.5	U
3.	71-36-3	N-BUTYL ALCOHOL	50	U
4.	75-15-0	CARBON DISULFIDE	3.0	U
5.	56-23-5	CARBON TETRACHLORIDE	1.5	U
6.	108-90-7	CHLOROBENZENE	1.5	U
7.	108-39-4	M-CRESOL	10	U
8.	106-44-5	P-CRESOL	10	U
9.	95-48-7	O-CRESOL	10	U
10.	108-94-1	CYCLOHEXANONE	50	U
11.	95-50-1	1,2-DICHLOROBENZENE	1.5	U
12.	141-78-6	ETHYL ACETATE	50	U
13.	100-41-4	ETHYLBENZENE		18.7
14.	110-80-5	ETHYLENE GLYCOL MONOETHYL ETHER	50	U
15.	60-29-7	ETHYL ETHER	75	U
16.	78-83-1	ISOBUTANOL	50	U
17.	67-56-1	METHANOL	50	U
18.	75-09-2	METHYLENE CHLORIDE	1.0	U
19.	78-93-3	METHYL ETHYL KETONE	50	U
20.	108-10-1	METHYL ISOBUTYL KETONE	3.0	U
21.	98-95-3	NITROBENZENE	1.5	U
22.	79-46-9	2-NITROPROPANE	50	U
23.	110-86-1	PYRIDINE	1.5	U
24.	127-18-4	TETRACHLOROETHYLENE	1.5	U
25.	108-88-3	TOLUENE		38.1
26.	71-55-6	1,1,1-TRICHLOROETHANE	1.5	U
27.	79-00-5	1,1,2-TRICHLOROETHANE	1.5	U
28.	76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	1.5	U
29.	79-01-6	TRICHLOROETHYLENE	1.5	U
30.	75-69-4	TRICHLOROFLUOROMETHANE	1.5	U
31.	1330-20-7	XYLENE (total)		17.3

CODES: U - COMPOUND WAS ANALYZED FOR BUT NOT DETECTED. THE VALUE REPORTED IS THE METHOD DETECTION LIMIT FOR REAGENT WATER.
J - ESTIMATED VALUE.
SLC - SUSPECTED LABORATORY CONTAMINANT.
SFC - SUSPECTED FIELD CONTAMINANT.

GRACE ANALYTICAL LABORATORY
5[illegible]0-B MCDERMOTT DRIVE
B[illegible]KELEY, ILLINOIS 60163 708/449-9449

F001-F005 SOLVENT WASTES
ORGANICS ANALYSIS DATA SHEET

STUDY NAME: Weston / 90WT03 STUDY NO: GAL-900402

SAMPLE I.D. NO: S-80 FILE REF. NO: >V0358

TENTATIVELY IDENTIFIED COMPOUNDS	ESTIMATED AMOUNT (ug/kg)
[illegible]phthalene	95.1
2-Methylnaphthalene	1040
Dibenzofuran	114
Pentachlorophenol	211
Ph[illegible]anthrene	375
Anthracene	65.8
Fl[illegible]oranthene	248
Pyrene	462
B[illegible]zo(a)anthracene	169
Chrysene	226
Bis(2-ethylhexyl)phthalate	30.6
Di-n-octylphthalate	14.6
Benzo(b)fluoranthene	109
Benzo(k)fluoranthene	91.9
Benzo(a)pyrene	154
Indeno(1,2,3-cd)pyrene	89.2
Dibenzo(a,h)anthracene	38.4
Ben[illegible](ghi)perylene	116

PRELIMINARY

SPACE ANALYTICAL LAB, INC.
5300-B MCDERMOTT DRIVE, BERKELEY, ILLINOIS 60163

INORGANIC ANALYSIS DATA SHEET

STUDY NAME: Weston-93WT03 STUDY NO: GAL-900402

SAMPLE I.D. NO: S-80

TEST	RESULT
Total Cyanide	< 0.5 ppm
Total Sulfide	< 1.0 ppm
Phenols	< 1.0 ppm
pH	8.5
Paint Filter Test	Pass

Custody Seal # 15353

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
230 South Dearborn St
Chicago, Illinois 6060

CHAIN OF CUSTODY RECORD

PROJ. NO.: 90WT03

PROJECT NAME: [redacted]

SAMPLERS: (Signature) Venetta Semcin

P.O. # TO BE CALLED IN

STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	CYANIDE/SULFIDE	pH/PAINT FILTER	PHENOLS/FUMED SILVER				REMARKS
													EPA TAG #
S-80	3/29/90	1450		X	center of oil/soil pile	1-1000	X	X	X				5-045494

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Venetta Semcin	3/30/90 0930	Mark Balazs			
Relinquished by: (Signature) Mark Balazs	Date / Time 3/30/90 1130	Received by: (Signature) [illegible]	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks GRACE ANALYTICAL 5300-B MCDERMOTT DRIVE	

Distribution: White - Accompanies Shipment; Pink - Coordinator Field Files; Yellow - Laboratory File

APR 02 '90 13:02 GRACE ANALYTICAL LAB P.02