GRIEVES WOOLEN MILL
ILO# 001091990
MARSHALL COUNTY, IL
IEPA 1230100009
SF / HRS

CERCLA
Integrated Site Assessment Analytical Results

Illinois Environmental Protection Agency

2200 Churchill Road
P. O. Box 19276
Springfield, IL 62794-9276

EPA Region 5 Records Ctr.
327913

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APPENDIX E

Target Compound List & Analytical Results

SDG NARRATIVE

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
Springfield Organics Laboratory
825 N. Rutledge
Springfield, Illinois 62702
217-782-9780

Case: Griedes Woolenmill

Sample Identification	IEPA Sample Number
X101	D582286
X102	D582287
X102DL (3)	D582287D
X103	D582288
X103DL (3)	D582288D
X104	D582289
X104DL (3)	D582289D
X105	D582290
X105RE (1)	D582290RE
X106	D582291
X107	D582292
X107DL (3)	582292DD
X108	D582293
X108DL (3)	582293DD
X109	D582294
X109DL (3)	D5822294D
X110	D582295
X201	D582296
X201DL (3)	582296DD
X202	D582297
X202RE (1)	D582297RE
X202DL (3)	82297DDD
X203	D582298
X203DL (3)	582298DD
X204	D582299
X204DL (3)	582299DD
X205	D582300
VBLKSL1	042795BLK
VBLKSL2	042895BLK
SBLKSL	D582478
GPCBLK	GPCBLANK
PBLKS1	D582611
X103MS (1)	D582288MS
X103MSD(1)	D582288MSD
X109MS (2)	D582477
X109MSD(2)	D582477R
X109MS (3)	D582610
X109MSD(3)	D582610R

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Manager's Office

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JUN 09 1995
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Manager's Office

) Volatile sample
(2) Semivolatile sample
(3) Pesticide sample

VOLATILE FRACTION

The spectral disagreement for the following compounds is more than the 20% allowed when compared with the standard spectrum :

X108
Methylene chloride coelutes with a TIC.

X202RE
Acetone coelutes with a TIC.

X203
Acetone coelutes with a TIC.
Methylene chloride coelutes with a TIC.

X204
Methylene chloride coelutes with a TIC.

VBLKSL1
Methylene chloride coelutes with a TIC.

VBLKSL2
Methylene chloride coelutes with a TIC.

SEMIVOLATILE FRACTION

The spectral disagreement for the following compounds is more than the 20% allowed when compared with the standard spectrum :

X102
Benzo(a)anthracene coelutes with a TIC.
Benzo(b)fluoranthene coelutes with a TIC.
Benzo(k)fluoranthene coelutes with a TIC.
Benzo(a)pyrene coelutes with a TIC.
Benzo(ghi)perylene coelutes with a TIC.

X103
Carbazole coelutes with a TIC.
Benzo(b)fluoranthene coelutes with a TIC.
Benzo(a)pyrene coelutes with a TIC.
Indeno(1,2,3-cd)pyrene coelutes with a TIC.
Benzo(ghi)perylene coelutes with a TIC.

X104
Benzo(a)anthracene coelutes with a TIC.
Benzo(b)fluoranthene coelutes with a TIC.
Benzo(a)pyrene coelutes with a TIC.
Indeno(1,2,3-cd)pyrene coelutes with a TIC.
Benzo(ghi)perylene coelutes with a TIC.

X106
Pyrene coelutes with a TIC.

X107
Carbazole coelutes with a TIC.
Benzo(b)fluoranthene coelutes with a TIC.
Benzo(a)pyrene coelutes with a TIC.
Indeno(1,2,3-cd)pyrene coelutes with a TIC.
Benzo(ghi)perylene coelutes with a TIC.

X108
Benzo(a)pyrene coelutes with a TIC.
Benzo(ghi)perylene coelutes with a TIC.

X110
Benzo(b)fluoranthene coelutes with a TIC.
Benzo(k)fluoranthene coelutes with a TIC.
Benzo(a)pyrene coelutes with a TIC.

X201
Chrysene coelutes with a TIC.
Benzo(b)fluoranthene coelutes with a TIC.
Benzo(a)pyrene coelutes with a TIC.

X202
Pyrene coelutes with a TIC.
Benzo(a)anthracene coelutes with a TIC.
Chrysene coelutes with a TIC.

X203
Anthracene coelutes with a TIC.
Benzo(a)anthracene coelutes with a TIC.
Chrysene coelutes with a TIC.
Benzo(b)fluoranthene coelutes with a TIC.
Benzo(k)fluoranthene coelutes with a TIC.
Benzo(a)pyrene coelutes with a TIC.

X204
Benzo(a)anthracene coelutes with a TIC.
Chrysene coelutes with a TIC.
Benzo(b)fluoranthene coelutes with a TIC.
Benzo(k)fluoranthene coelutes with a TIC.
Benzo(a)pyrene coelutes with a TIC.

PESTICIDE FRACTION

Sample X202 and X202DL appears to contain Endrin. This was not confirmed by GC/MS and the value is reported as less than the GC/MS CRQL, per the Statement of Work.

Celeste M Crowley 6/8/95
Celeste Crowley Date
Pesticide Supervisor

Gary Germann 6/8/95
Gary Germann Date
GC/MS Supervisor

John Hurley 6/9/95
John Hurley Date
Laboratory Manager

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

Date: 7/20/95

Subject: Review of CLP Data

From: Ron Turpin
Contract Laboratories Administrator
Division of Laboratories

To: Data User Ted Prescott

The Quality Assurance Section has reviewed the following data package(s):

SITE NAME: Geriedes Woolenmill CASE/SDG No: 582286/130

Date(s) Received for Review: 09-Jun-95 21-Jun-95 No. of Samples: 15

Laboratory(s): IEPA Hours Used for Review: 20 + 12 = 32

Reviewer(s): Chris Bridges
Jerry Clark

The following narrative represents our findings:

The data is all valid as qualified on the Forms.

- ☐ 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: Tom Crause

IEPA DIVISION OF LABORATORIES
QUALITY ASSURANCE SECTION
INORGANIC DATA VALIDATION
CHECKLIST

Site:	Griedes Woolenmill
Laboratory:	IEPA
SDG:	130
Analytical Protocol:	ILM03.0
Date:	July 20, 1995
Reviewer:	Jerry Clark
Reviewer Signature:	Jerry Clark

I. PRELIMINARY REVIEW

Number Aqueous Samples: _____ Analytes:
Number Solid/Soil Samples: 15 Analytes: Trace Metals, Hg, CN

	YES	NO	N/A
A. Chain - of - Custody(ies) Present?	X		
Signed ?	X		
Dated?	X		
B. Cover Page- Present?	X		
Do sample numbers agree with sample numbers on:			
a. Chain - of - Custody Forms?	X		
b. Form 1s?	X		
C. Form 1- Final Data			
Are all Form 1s present and complete?	X		
Are correct units indicated on Form 1s (ug/l-waters & mg/kg-soils)	X		
Are soil sample results corrected for percent solids (dry weight)?	X		
Are sample results < IDL reported as the IDL (U)?	X		

ACTIONS:

NONE

II. HOLDING TIMES & PRESERVATION

			YES	NO	N/A
Mercury (28 Days)	pH < 2	exceeded?	X		
Cyanide (14 Days)	pH > 12	exceeded?		X	
other Metals (6months)	pH < 2	exceeded?		X	

ACTIONS:

Fifteen soil samples were analyzed for mercury on the 31st day, which exceeded the technical holding time by three days. Samples #X101, X105, X201, and X205 are qualified as estimated "UJ". Other samples #X102, X103, X104, X106, X107, X108, X109, X110, X202, X203, and X204 are qualified as estimated "J"

III. CALIBRATIONS

A. Initial Calibration Procedures:

	YES	NO	N/A
Are acceptable 2 point calibrations present for ICP ?	X		
Is the CRI analyzed at the proper frequency and concentration?	X		
Are acceptable 4 point calibrations present for AA?	X		
Correlation Coefficient > 0.995?	X		
Is the CRA analyzed at the proper frequency and concentration?	X		
Are acceptable 4 point calibrations present for Cyanide?	X		
Mid-Range standard distilled?	X		
Are acceptable 4 point calibrations present for Mercury?	X		
Correlation Coefficient > 0.995?	X		
Is the CRA analyzed at the proper frequency and concentration?	X		
Are acceptable calibrations present for other parameters?			X

ACTIONS:

NONE

B. Form 2 - Initial and Continuing Calibration Verification:

All necessary Form 2s present and complete?	X		
ICVs and CCVs analyzed at the correct frequency?	X		
Are results reported in the correct units (ug/l)?	X		
All calibration verification % Recoveries meet criteria?	X		
ICV and CCV concentrations different?	X		

ACTIONS: (Analyte, % Recovery, Sample(s) affected and Qualifications)

NONE

IV. BLANKS

	YES	NO	N/A
All necessary Form 3s present and complete?	X		
A. Initial and Continuing Calibration Blanks			
Analyzed at correct frequency?	X		
Are results reported in the correct units (ug/l)?	X		
Were transcription errors corrected?			X
All ICBs and CCBs meet no contamination criteria?		X	

ACTIONS: (ICB or CCB/IDL) Sample(s) affected, qualifications

Se (1.2/1.0) - X103, X104, X105, and X107 are qualified as "U".

Contamination noted in arsenic; however, no data were affected.

B. Preparation Blanks

	YES	NO	N/A
Was one preparation blank prepared for:			
each 20 samples?	X		
each batch?	X		
each matrix type?	X		
Were prep blanks analyzed at the correct frequency?	X		
Were prep blanks reported in the correct concentration units?	X		
Were all transcription errors corrected?			X
All prep blanks meet no contamination criteria?	X		

ACTIONS: (Analyte, (PB/IDL), Sample(s) affected, Qualifications)

NONE

V. ICP INTERFERENCE CHECK SAMPLE:

	YES	NO	N/A
Form 4 present and complete?	X		
Were ICS ran at the correct frequency?	X		
Were all transcription errors corrected?			X
All % Recoveries of ICSAB Solution +/- 20 % of True Value?	X		
For elements not present in ICSA, is the absolute value of the ICSA result greater than the IDL?		X	

ACTIONS: (Analyte, % Recovery, Sample(s) affected, Qualifications)

NONE

VI. SPIKE SAMPLE RECOVERY:

		YES	NO	N/A
Form 5 present and complete for:	each 20 samples?	X		
	each matrix type?	X		
Were all transcription errors corrected?		X		
Were field blanks used for spike sample analysis?			X	
Were all Matrix Spike % Recoveries within criteria?			X	

ACTIONS: (Analyte, % Recovery, Sample(s) affected, Qualifications)

Sb (67.5%) - X101, X102, X104, X105, X107, X108, X109, X202, X203, X204, and X205 are qualified as estimated "UJ".
- X103, X106, X110, and X201 are qualified as estimated "J".

Se (59.1%) - X101, X102, X103, X104, X105, X107, X108, X109, X110, X201, X203, X204, and X205 are qualified as estimated "UJ".
- X106 and X202 are qualified as estimated "J".

VII. DUPLICATE SAMPLE ANALYSIS:

		YES	NO	N/A
Form 6 present and complete for:	each 20 samples?	X		
	each matrix type?	X		
Were all transcription errors corrected?		X		
Were field blanks used for duplicate analysis?			X	
For both AA and ICP when both are used for the same analyte?		X		
Were all duplicate analyses differences within criteria?		X		

ACTIONS: (Element, Differences, Sample(s) affected, Qualifications)

NONE

VIII. LABORATORY CONTROL SAMPLE:

(Note: LCS not required for aqueous Hg.)

	YES	NO	N/A
Form 7 Present and Complete?	X		
Was one LCS prepared and analyzed for:			
every 20 or fewer water samples?			X
every digestion batch of water samples?			X
every 20 or fewer solid samples?	X		
every digestion batch of solid samples?	X		
Were all transcription errors corrected?	X		
Were all of the Aqueous LCS % Recoveries within criteria?			X
Were all of the Solid LCS % Recoveries within criteria?	X		

ACTIONS: (Element, % Recovery, Sample(s) affected, Qualifications)

NONE

IX. FURNACE ATOMIC ABSORPTION (AA) QC:

	YES	NO	N/A
Did the laboratory utilize duplicate injections for all non-MSAanalyses?	X		
Does the GFAA fow chart appear to have been followed for all analyses?	X		
Did the laboratory properly flag all GFAA results on Form 1s?	X		

ACTIONS: (Analyte, Sample(s) affected, Qualifications)

Any sample results flagged "W," "+," or "E" are qualified as estimated "J".

X. ICP SERIAL DILUTION:

Form 9 present and complete?	X		
Was Serial Dilution analysis performed for:			
each 20 or fewer samples	X		
each matrix type?	X		
Were all transcription errors corrected?	X		
Were all serial dilution results within criteria?	X		
Were field blanks used for serial dilution analysis?		X	

ACTIONS: (Analyte, Sample(s) affected, Qualifications)

NONE

XI. RAW DATA:

	YES	NO	N/A
Digestion Log for flame AA/ICP present?	X		
Digestion Log for furnace AA present?	X		
Digestion Log for mercury present?	X		
Digestion Log for cyanide present?			X
Inventory Sheet present?	X		
Weights, dilutions, and volumes used to obtain values present?	X		
Percent solids calculation present for soils (sediments)?	X		
Are preparation dates present on Digestion Logs?	X		
Are standards preparation logs present and dated?	X		
Measurement read out records present for:			
ICP?	X		
Flame AA?			X
Furnace AA?	X		
Mercury?	X		
Cyanide?	X		
other Inorganics?			X
Are all results with the ICP linear ranges?	X		
Are all Mercury results within the calibrated range?	X		
Are all Cyanide results within the calibrated range?	X		
Are all other inorganics within the calibrated range?			X
Sulfate, Sulfide, _____			
Are all raw data to support all sample analyses an QC operations present?	X		
Legible?	X		
Properly labeled?	X		
Are the Instrument Detection Limits (IDLs) less than 3 months old?	X		
Are the ICP Linear Ranges less than three months old?	X		
Are the ICP Interelement correction factors less than one year old?	X		

ACTIONS:

NONE

Data Validation Checklist Woolenmill
Site Name: Cuedes ~~Woodmill~~
SDG No.: 582286
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:
NONE

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:
NONE

Data Validation Checklist
Site Name: Cariedes Woolenmill
SDG No.: 582286
Laboratory: IEPA
Page 2 of 45

I. Holding Times

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

EPA Number	Lab Number	1995 Date Coll.	1995 Date Rec'd.	1995 VOA Date Anal. OK	1995 Semi-VOA Date Extr OK	1995 Semi-VOA Date Anal. OK	1995 Pesticide Date Extr OK	1995 Pesticide Date Anal. OK
X101	0582286	4/25/95	4-26	4-27	5-1	5-20	5-2	5-12
X102	-287			4-27	5-1	5-20	5-2	5-14
X102DL	-287D			—	—	—	5-2	5-16
X103	-288			4-27	5-1	5-20	5-2	5-17
X103DL	-288D			—	—	—	5-2	5-17
X104	-289			4-27	5-1	5-20	5-2	5-16
X104DL	-289D			—	—	—	5-2	5-15
X105	-290			4-27	5-1	5-20	5-2	5-11
X105RE	-290RE			4-28	—	—	—	—
X106	-291			4-27	5-1	5-20	5-2	5-19
X107	-292			4-27	5-1	5-20	5-2	5-15
X107DL	-292D			—	—	—	5-2	5-15
X108	-293			4-27	5-1	5-20	5-2	5-17
X108DL	-293DD			—	—	—	5-2	5-17
X109	-294			4-27	5-1	5-20	5-2	5-11
X109DL	-294D			—	—	—	5-2	5-12
X110	-295			4-28	5-1	5-20	5-2	5-11
X201	-296			4-27	5-1	5-20	5-2	5-12
X201DL	-296DD			—	—	—	5-2	5-15
X202	-297			4-27	5-1	5-21	5-2	5-12
X202DL	-297DDD			—	—	—	5-2	5-12
X202RE	-297RE			4-28	—	—	—	—

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

NONE

Data Validation Checklist
Site Name: Cordedes Woolenmill
SDG No.: 592286
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	1995 Date Coll.	1995 Date Rec'd.	OK 1995 VOA Date Anal.	OK 1995 Semi-VOA Date Extr	OK Semi-VOA Date Anal.	OK 1995 Pesticide Date Extr	OK Pesticide Date Anal.
X203	-298	4/25	4-26	4-28	5-1	5-20	5-2	5-17
X203DL	-298DD			—	—	—	5-2	5-17
X204	-299			4-28	5-1	5-20	5-2	5-17
X204DL	-299DD			—	—	—	5-2	5-17
X205	-300			4-28	5-1	5-19	5-2	5-12

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

NONE

Data Validation Checklist
Site Name: Cinder Woolenmill
SDG No.: 582286
Laboratory: IEPA
Page 4 of 45

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:

NONE

Data Validation Checklist
Site Name: Cuyiedes Woolenmill
SDG No.: 582286
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 mean RRFs.***

YES NO
a. [X] [ ] Check and recalculate the RRFs and mean RRFs for several target compounds (at least one associated with each internal standard).

b. [X] [ ] Check that, for all target compounds and surrogates, the mean RRFs 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: See Outlier Form

Data Validation Checklist
Site Name: Greenbelt Woolenmill
SDG No.: 582286
Laboratory: TGPA
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IV. Continuing Calibration

GC/MS

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

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

YES NO

a. [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:

See another Form

VOLATILE CALIBRATION OUTLIERS

3/90 SOW

Lab Name: IEPA

Case: Griedes Woolen Mill

Instrument # XL2 DATE/TIME:	Minimum RRF	Initial Cal. 3/17/95			Contin. Cal. 4/27/95			Contin. Cal. 4/28/95			Contin. Cal.			Contin. Cal.		
		RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q
Chloromethane	0.010								21.4							
Bromomethane	0.100								27.0							
Vinyl Chloride	0.100															
Chloroethane	0.010															
Methylene Chloride	0.010															
Acetone	0.010					30.9			-50.9							
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															
2-Butanone	0.010					43.9			-28.3							
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					42.9										
2-Hexanone	0.010					39.0										
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:

XIBLKSL1	XBLKSL2
X101	X203
X102	X204
X103	X205
X104	X103MS
X105	X103MSD
X106	X105RE
X107	X110
X108	X202RE
X109	
X201	
X202	

Reviewer's Initials/Date

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

Data Validation Checklist
Site Name: Grredes Wadsworth
SDG No.: 582284
Laboratory: IEPA
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CB

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		
Date Anal. or Extr.	~~YL2~~ 4/27/95	4/28/95		
Instrument	YL2	YL2		

TCL Comp'd	Amount	TCL Comp'd	Amount	TCL Comp'd	Amount	TCL Comp'd	Amount
MeCl	3	MeCl	5				
		Acetone	3				

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

Data Validation Checklist
Site Name: Coriedes Woolenmill
SDG No.: 5822810
Laboratory: IEPA
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CB

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. [N] [ ] 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:
NONE

Data Validation Checklist
Site Name: Ciriedes Wooldenmin
SDG No.: 582286
Laboratory: TEPA
Page 9 10 of 45
CB

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
MeCl	11	19	24	36.4

Comments:

NONE

Data Validation Checklist
Site Name: Cordes Woolen Mill
SDG No.: 592286
Laboratory: IEPA
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CB

VIII. Laboratory Control Samples

N/A

IX. Project Specific QA/QC

Evaluation Procedures must follow the project QAPjP.

Data Validation Checklist
Site Name: Coriedes Woolenmill
SDG No.: 542286
Laboratory: IEPA
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CB

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:

X105 CB2 area low → use
X202 CB2 area low use
X105RE CB2 area low use original
X202RE CB2 area low " "

Data Validation Checklist
Site Name: Carlades Woolenmill
SDG No.: 582086
Laboratory: ICPA
Page ~~12~~ 13 of 45

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:

None

Data Validation Checklist
Site Name: Cornelius Woolenmill
SDG No.: 5822816
Laboratory: ICPA
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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:
WONG

Data Validation Checklist
Site Name: Gruedes Wolanniel
SDG No.: 592280
Laboratory: IEPA
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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.

Data Validation Checklist
Site Name: Cuyahoga Woodenmill
SDG No.: 582286
Laboratory: IEPA
Page 16 of 45

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:
NONE

Data Validation Checklist
Site Name: Griedes Wolanmd
SDG No.: 592286
Laboratory: ISPA
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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:

none

Case : Greedes Woodmill

(VOA) SV PEST

Water sample TCL

Sample # (and column # for PEST) : _____
Compound : _____
Calculated concentration (ug/L) : _____
Reported concentration : _____

N/A

Comment : _____

Soil sample TCL

Sample # (and column # for PEST) : X104
Compound : MeCl
Calculated concentration (ug/Kg) : 11
Reported concentration : 11

$$\frac{(9298)(250)}{(44930)(1.173)(5)(.83)} = 11$$

Comment : OK

Multicomponent analyte (PEST only)

Sample and column # : _____
Compound : _____
Calculated concentration : _____
Reported concentration : _____

N/A

Comment : _____

TICs

Water sample # : _____
TIC # : _____
Calculated concentration (ug/L) : _____
Reported concentration : _____

N/A

Comment : _____

Soil sample # : X105RE
TIC # : 1
Calculated concentration (ug/Kg) : 16
Reported concentration : 16

$$\frac{(95325)(250)}{(339061)(1)(5)(.88)} = 16$$

Comment : OK

Data Validation Checklist
Site Name: Griedes Woolen Mill
SDG No.: 542286
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:

WOWS

Data Validation Checklist
Site Name: Coriedes Woolenmill
SDG No.: 5622816
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 mean RRFs.***

YES NO
a. [X] [ ] Check and recalculate the RRFs and mean RRFs for several target compounds (at least one associated with each internal standard).

b. [X] [ ] Check that, for all target compounds and surrogates, the mean RRFs 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:
See Outliers

Data Validation Checklist
Site Name: Griedes Woolenmill
SDG No.: 582286
Laboratory: ESPA
Page 21 of 45

IV. Continuing Calibration

GC/MS

Fraction: VOA SemiVOA (*circle one*)

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

YES NO

a. [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: See outlier Form

SEMIVOLATILE CALIBRATION OUTLIERS

Page 1

Lab Name: IEPA

Case: Oriedes Woolenmill

Instrument # EWC500	Minimum	Initial Cal. 5/17/95			Contin. Cal. 5/19/95			Contin. Cal. 5/20/95			Contin. Cal.			Contin. Cal.		
DATE/TIME:	RRF	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-Chloropropane)	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															
Hexachlorobutadiene	0.010								-34.0							
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															
Acenaphthene	0.800															
2,4-Dinitrophenol	0.010								28.2							
4-Nitrophenol	0.010															
Dibenzofuran	0.800															
2,4-Dinitrotoluene	0.200															

AFFECTED SAMPLES:

3BLKSL	X104
X205	X108
X101	X203
X109	X103
X106	X204
X201	X102
X110	X200
X105	X109MS
X107	X109MSD

Reviewer's Initials/Date

3/92

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

Data Validation Checklist
Site Name: Coviedes Woolenville
SDG No.: 582286
Laboratory: TCPA
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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.	SBLKSL	GPCBLK		
Date (Anal.) or Extr.	5/19/95	5/19/95		
Instrument	INC500	INC506		

	TCL Comp'd	Amount	TCL Comp'd	Amount	TCL Comp'd	Amount	TCL Comp'd	Amount
Di-n-Butyl Phthalate		430						

	TIC Comp'd	Amount	TIC Comp'd	Amount	TIC Comp'd	Amount	TIC Comp'd	Amount
2Pentanone 4Hydroxy-4methy		21000						

Data Validation Checklist
Site Name: Brieden Woolenmill
SDG No.: 5822810
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.

Comments:
NONE

Data Validation Checklist
Site Name: Griedes/Doolenmill
SDG No.: 582286
Laboratory: IEPA
Page 25 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
Di-n-Butylphthalate	560	380	570	

Comments:
X109MSD Pentachlorophenol %R out
X109MSD 1,4-Dichlorobenzene, 1,2,4-Trichlorobenzene, 4-Chloro-3-methylphenol
% RPD out

VIII. Laboratory Control Samples

N/A

IX. Project Specific QA/QC

Evaluation Procedures must follow the project QAPjP.

Data Validation Checklist
Site Name: Coviedes Woolenmill
SDG No.: 582266
Laboratory: IEPA
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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:

None

Data Validation Checklist
Site Name: Conrades Woolen mill
SDG No.: ~~[illegible]~~ 582286
Laboratory: IEPA
Page 28 of 95

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:
NONE

Data Validation Checklist
Site Name: Cerisdes Woolenmill
SDG No.: 582286
Laboratory: IEPA
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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:
NONE

Data Validation Checklist
Site Name: Carieder Woolenmill
SDG No.: 582286
Laboratory: IEPA
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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.

Data Validation Checklist
Site Name: Coriedes Woolenmill
SDG No.: 5822810
Laboratory: IEPA
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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:
None

Data Validation Checklist
Site Name: Coviedes Woolenmill
SDG No.: 582286
Laboratory: IEPA
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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:
NONE

Case : Griedes Woolenmill 5822816

VOA SV PEST

Water sample surrogate %R

Sample # (and column # for PEST) : _____ N/A
Surrogate : _____
Concentration added (ug/L) : _____
Calculated %R : _____
Reported %R : _____

Comment : _____

Soil sample surrogate %R

Sample # (and column # for PEST) : X101
Surrogate : NBZ
Concentration added (ug/Kg) : 2025
Calculated %R : 66
Reported %R : 66

$$\frac{(354507)(40)(500)(1)(2)}{(469710)(.456)(2)(30.1)(.82)} = 1335.4$$

$$\frac{(100)(.5)(1000)}{(30.1)(.82)} = 2025 \qquad \frac{1335.4}{2025} \times 100 =$$

Comment : OK

Water sample MS/MSD

Sample # (and column # for PEST) : _____ N/A
Compound : _____
Calculated concentration (ug/L) : _____
Reported concentration : _____
%R calculated correctly? _____

Comment : _____

Soil sample MS/MSD

Sample # (and column # for PEST) : X109MS
Compound : Phenol
Calculated concentration (ug/Kg) : 1436
Reported concentration : 1437
%R calculated correctly? yes

$$\frac{(293054)(40)(500)(1)(2)}{(831666)(1.811)(2)(30.1)(.9)} = 1436$$

Comment : OK

Data Validation Checklist
Site Name: Cariedes Woolworm mill
SDG No.: 5822816
Laboratory: ISPA
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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:

OK

Data Validation Checklist
Site Name: Caviedes Woodenmill
SDG No.: 5822816
Laboratory: IEPA
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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: None

Data Validation Checklist
Site Name: Cutedes Woodsmill
SDG No.: 582296
Laboratory: IEPA
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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: None

Data Validation Checklist
Site Name: Coriedes Woolonmill
SDG No.: 582286
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.	PBLK S1	GPCBLK01		
Date Anal. or Extr.	5/11/95	5/2/95		
Instrument	HP1 HP2	HP1 HP2		

TCL Comp'd	Amount	TCL Comp'd	Amount	TCL Comp'd	Amount	TCL Comp'd	Amount
Dieldrin	0.90						

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

Data Validation Checklist
Site Name: Coniedes Woolenhill
SDG No.: 582286
Laboratory: IEPA
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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
[ ] [ ] [ ] If low surrogate recoveries are observed, check whether low recoveries are due to sample dilution.

6. ***Evaluate Surrogate Analyses in Blanks.***

YES NO
[ ] [ ] Check that all surrogate analysis criteria (retention time and advisory recovery criteria) were met in all blank samples.

Comments:

X102 DCB out on DB608
X102DL TCX out on DB608 & DB1701 & DCB out on DB608
X103, X103DL, X104, X104DL DCB out on DB608
X107 TCX & DCB out on Both DB608 and DB1701
X107DL " " " " " " "
X108 " " " " " " "
X108DL TCX out on DB608 DCB out on DB1701
X202 TCX out on DB1701 DCB out on DB608 and DB1701
X202DL DCB out on DB1701
X203, X204, X204DL DCB out on Both DB608 & DB1701
X203DL DCB out on DB1701

Data Validation Checklist
Site Name: Coriades Woolenmill
SDG No.: 592286
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
gamma-BHC	0.27	14	15	84
Heptachlor epoxide	0.47	0.34	0.26	30
Dieldrin	68	110	110	25
Endrin	7.4	43	48	67
alpha-Chlordane	0.48	0.53	0.56	7.7
gamma-Chlordane	0.89	0.77	0.85	7.0

Comments:
None

Data Validation Checklist
Site Name: Coriedes Wastemill
SDG No.: 582286
Laboratory: IEPA
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VIII. Laboratory Control Samples

N/A

IX. Project Specific QA/QC

Evaluation Procedures must follow the project QAPjP.

Data Validation Checklist
Site Name: Cariedes Woolenmill
SDG No.: 5822810
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:

None

Data Validation Checklist
Site Name: ~~Forest~~ CCB Griedes Woolonmi4
SDG No.: 582286
Laboratory: IEPA
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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:

None

Data Validation Checklist
Site Name: Coriedes Woolen mill
SDG No.: 582286
Laboratory: IEPA
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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:
NONE

Data Validation Checklist
Site Name: 582286
SDG No.: 582286
Laboratory: IEPA
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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.

NONE

Case : Griedes Woolenmill VOA SV PEST

Water sample surrogate %R

Sample # (and column # for PEST) : _____ N/A
Surrogate : _____
Concentration added (ug/L) : _____
Calculated %R : _____
Reported %R : _____

Comment : _____

Soil sample surrogate %R

Sample # (and column # for PEST) : X101 (DB608)
Surrogate : TCX
Concentration added (ug/Kg) : 16.2
Calculated %R : 92
Reported %R : 92

$\frac{(85897)(5000)(1)(2)}{(2330000)(1)(30.2)(.82)} = 14.9$

$\frac{(0.4)(1000)}{(30.2)(.82)} = 16.2$

$\frac{14.9}{16.2} \times 100 = 92\%$

Comment : OK

Water sample MS/MSD

Sample # (and column # for PEST) : _____ N/A
Compound : _____
Calculated concentration (ug/L) : _____
Reported concentration : _____
%R calculated correctly? _____

Comment : _____

Soil sample MS/MSD

Sample # (and column # for PEST) : X109MS (DB1701)
Compound : 4,4'-DDT
Calculated concentration (ug/Kg) : 37.9
Reported concentration : 37.9
%R calculated correctly? yes

$\frac{(170668)(5000)(1)(2)}{(16660000)(1)(30.1)(.90)} = 37.9$

Comment : OK

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EPA SAMPLE NO.

X101

b Name: ILLINOIS EPA CHAMPAIGN LAB Contract: GRIEDES WOOLENMILL
Lab Code: Case No.: SAS No.: SDG No.: 130
Matrix (Soil): Lab Sample ID: B505020
Level (Low/Med): Date Received: 04/27/95
% Solids: 82.6

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3910			P
7440-36-0	Antimony	8.2	U	N	P J
7440-38-2	Arsenic	2.2	B		FM
7440-39-3	Barium	64.8			P
7440-41-7	Beryllium	0.24	U		P
7440-43-9	Cadmium	1.2	U		P
7440-70-2	Calcium	1840			P
7440-47-3	Chromium	6.0			P
7440-48-4	Cobalt	4.1	B		P
7440-50-8	Copper	4.8	B		P
7439-89-6	Iron	6010			P
7439-92-1	Lead	30.7			FM
7439-95-4	Magnesium	~~627~~ 727 JC	B		P
7439-96-5	Manganese	516			P
7439-97-6	Mercury	0.03	U		AV J
7440-02-2	Nickel	5.4	B		P
7440-09-7	Potassium	584	B		P
7782-49-2	Selenium	0.24	U	W,N	FM J
7440-22-4	Silver	1.4	U		P
7440-23-5	Sodium	73.3	U		P
7440-28-0	Thallium	0.24	U		FM
7440-62-2	Vanadium	11.8	B		P
7440-66-6	Zinc	62.4			P
	Cyanide	0.60	U		CA
					AS

Color Before: BLACK Clarity Before: OPAQUE Texture: MEDIUM
Color After: BROWN Clarity After: CLOUDY Artifacts:
Comments:

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EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: GRIEDES WOOLENMILL
Lab Code: Case No.: SAS No.: SDG No.: 130
Matrix (Soil): Lab Sample ID: B505021
Level (Low/Med): Date Received: 04/27/95
% Solids: 86.5

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	9390			P	
7440-36-0	Antimony	7.0	U	N	P	J
7440-38-2	Arsenic	57.0			FM	
7440-39-3	Barium	114			P	
7440-41-7	Beryllium	4.3			P	
7440-43-9	Cadmium	9.4			P	
7440-70-2	Calcium	36400			P	
7440-47-3	Chromium	107			P	
7440-48-4	Cobalt	9.5	B		P	
7440-50-8	Copper	79.6			P	
7439-89-6	Iron	39900			P	
7439-92-1	Lead	262			P	
7439-95-4	Magnesium	14100			P	
7439-96-5	Manganese	547			P	
7439-97-6	Mercury	0.40			AV	J
7440-02-2	Nickel	30.9			P	
7440-09-7	Potassium	1330			P	
7782-49-2	Selenium	0.22	U	W,N	FM	J
7440-22-4	Silver	1.2	U		P	
7440-23-5	Sodium	652	B		P	
7440-28-0	Thallium	1.1	B		FM	
7440-62-2	Vanadium	33.1			P	
7440-66-6	Zinc	550			P	
	Cyanide	0.58	U		CA	
					AS	

Color Before: BLACK Clarity Before: OPAQUE Texture: MEDIUM
Color After: GREEN Clarity After: CLOUDY Artifacts:
Comments:

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EPA SAMPLE NO.

X103

Name: ILLINOIS EPA CHAMPAIGN LAB Contract: GRIEDES WOOLENMILL
Lab Code: Case No.: SAS No.: SDG No.: 130
Matrix (Soil): Lab Sample ID: B505022
Level (Low/Med): Date Received: 04/27/95
% Solids: 84.7

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7820			P
7440-36-0	Antimony	8.1	B	N	P J
7440-38-2	Arsenic	21.0			FM
7440-39-3	Barium	143			P
7440-41-7	Beryllium	0.60	B		P
7440-43-9	Cadmium	1.1			P
7440-70-2	Calcium	52800			P
7440-47-3	Chromium	31.5			P
7440-48-4	Cobalt	7.3	B		P
7440-50-8	Copper	30.2			P
7439-89-6	Iron	20700			P
7439-92-1	Lead	332			P
7439-95-4	Magnesium	25700			P
7439-96-5	Manganese	567			P
7439-97-6	Mercury	0.30			AV J
7440-02-2	Nickel	15.1			P
7440-09-7	Potassium	1000			P
7782-49-2	Selenium	1.1	U	W,N	FM J
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	133	B		P
7440-28-0	Thallium	0.23	U		FM
7440-62-2	Vanadium	21.5			P
7440-66-6	Zinc	233			P
	Cyanide	0.59	U		CA
					AS

Color Before: BLACK Clarity Before: OPAQUE Texture: MEDIUM
Color After: BROWN Clarity After: CLOUDY Artifacts:
Comments:

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EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: GRIEDES WOOLENMILL
Lab Code: Case No.: SAS No.: SDG No.: 130
Matrix (Soil): Lab Sample ID: B505023
Level (Low/Med): Date Received: 04/27/95
% Solids: 85.7

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8000			P
7440-36-0	Antimony	6.7	U	N	P J
7440-38-2	Arsenic	6.9			FM
7440-39-3	Barium	100			P
7440-41-7	Beryllium	0.60	B		P
7440-43-9	Cadmium	1.3			P
7440-70-2	Calcium	43300			P
7440-47-3	Chromium	30.9			P
7440-48-4	Cobalt	7.5	B		P
7440-50-8	Copper	26.7			P
7439-89-6	Iron	17100			P
7439-92-1	Lead	194			P
7439-95-4	Magnesium	19200			P
7439-96-5	Manganese	495			P
7439-97-6	Mercury	0.28			AV J
7440-02-2	Nickel	14.3			P
7440-09-7	Potassium	1080			P
7782-49-2	Selenium	1.1	U	W,N	FM J
7440-22-4	Silver	1.2	U		P
7440-23-5	Sodium	146	B		P
7440-28-0	Thallium	0.23	U		FM
7440-62-2	Vanadium	24.6			P
7440-66-6	Zinc	227			P
	Cyanide	0.58	U		CA
					AS

Color Before: BLACK Clarity Before: OPAQUE Texture: MEDIUM
Color After: BROWN Clarity After: CLOUDY Artifacts:
Comments:

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EPA SAMPLE NO.

X105

b Name: ILLINOIS EPA CHAMPAIGN LAB Contract: GRIEDES WOOLENMILL
Lab Code: Case No.: SAS No.: SDG No.: 130
Matrix (Soil): Lab Sample ID: B505024
Level (Low/Med): Date Received: 04/27/95
% Solids: 90.2

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	6790			P	
7440-36-0	Antimony	7.2	U	N	P	J
7440-38-2	Arsenic	4.3			FM	
7440-39-3	Barium	67.8			P	
7440-41-7	Beryllium	0.51	B		P	
7440-43-9	Cadmium	1.0	U		P	
7440-70-2	Calcium	5580			P	
7440-47-3	Chromium	16.8			P	
7440-48-4	Cobalt	5.3	B		P	
7440-50-8	Copper	12.6			P	
7439-89-6	Iron	13400			P	
7439-92-1	Lead	132			P	
7439-95-4	Magnesium	2020			P	
7439-96-5	Manganese	433			P	
7439-97-6	Mercury	0.03	U		AV	J
7440-02-2	Nickel	11.6			P	
7440-09-7	Potassium	954	B		P	
7782-49-2	Selenium	1.1	U	W,N	FM	J
7440-22-4	Silver	1.3	U		P	
7440-23-5	Sodium	131	B		P	
7440-28-0	Thallium	0.22	U		FM	
7440-62-2	Vanadium	21.4			P	
7440-66-6	Zinc	48.7			P	
	Cyanide	0.55	U		CA	
					AS	

Color Before: BLACK Clarity Before: OPAQUE Texture: MEDIUM
Color After: BROWN Clarity After: CLOUDY Artifacts:
Comments:

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EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: GRIEDES WOOLENMILL
Lab Code: Case No.: SAS No.: SDG No.: 130
Matrix (Soil): Lab Sample ID: B505025
Level (Low/Med): Date Received: 04/27/95
% Solids: 88.4

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6410			P
7440-36-0	Antimony	36.8		N	P J
7440-38-2	Arsenic	45.6			FM
7440-39-3	Barium	139			P
7440-41-7	Beryllium	1.1			P
7440-43-9	Cadmium	6.2			P
7440-70-2	Calcium	4020			P
7440-47-3	Chromium	54.7			P
7440-48-4	Cobalt	11.2			P
7440-50-8	Copper	192			P
7439-89-6	Iron	281000			P
7439-92-1	Lead	207			P ~~SK~~
7439-95-4	Magnesium	1780			P
7439-96-5	Manganese	455			P
7439-97-6	Mercury	0.90			AV J
7440-02-2	Nickel	114			P
7440-09-7	Potassium	2320			P
7782-49-2	Selenium	4.8		S,N	FM J
7440-22-4	Silver	1.3	U		P
7440-23-5	Sodium	2300			P
7440-28-0	Thallium	3.1	B SC	E	FM J
7440-62-2	Vanadium	39.7			P
7440-66-6	Zinc	260			P
	Cyanide	0.56	U		CA
					AS

Color Before: RED Clarity Before: OPAQUE Texture: MEDIUM
Color After: RED Clarity After: CLOUDY Artifacts:
Comments:

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EPA SAMPLE NO.

X107

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: GRIEDES WOOLENMILL
Lab Code: Case No.: SAS No.: SDG No.: 130
Matrix (Soil): Lab Sample ID: B505026
Level (Low/Med): Date Received: 04/27/95
% Solids: 90.7

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	5850			P	
7440-36-0	Antimony	6.9	U	N	P	J
7440-38-2	Arsenic	14.1			FM	
7440-39-3	Barium	108			P	
7440-41-7	Beryllium	1.4			P	
7440-43-9	Cadmium	1.3			P	
7440-70-2	Calcium	62500			P	
7440-47-3	Chromium	64.1			P	
7440-48-4	Cobalt	6.5	B		P	
7440-50-8	Copper	52.9			P	
7439-89-6	Iron	26300			P	
7439-92-1	Lead	136			P	
7439-95-4	Magnesium	31200			P	
7439-96-5	Manganese	424			P	
7439-97-6	Mercury	0.17			AV	J
7440-02-2	Nickel	16.7			P	
7440-09-7	Potassium	915	B		P	
7782-49-2	Selenium	1.1	U	W,N	FM	J
7440-22-4	Silver	1.2	U		P	
7440-23-5	Sodium	365	B		P	
7440-28-0	Thallium	0.47	B		FM	
7440-62-2	Vanadium	21.0			P	
7440-66-6	Zinc	283			P	
	Cyanide	0.55	U		CA	
					AS	

Color Before: BLACK Clarity Before: OPAQUE Texture MEDIUM
Color After: GREEN Clarity After: CLOUDY Artifacts:
Comments:

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EPA SAMPLE NO.

X108

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: GRIEDES WOOLENMILL
Lab Code: Case No.: SAS No.: SDG No.: 130
Matrix (Soil): Lab Sample ID: B505027
Level (Low/Med): Date Received: 04/27/95
% Solids: 78.2

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	11000			P	
7440-36-0	Antimony	7.9	U	N	P	J
7440-38-2	Arsenic	9.3			FM	
7440-39-3	Barium	316			P	
7440-41-7	Beryllium	2.5			P	
7440-43-9	Cadmium	5.0			P	
7440-70-2	Calcium	24600			P	
7440-47-3	Chromium	29.4			P	
7440-48-4	Cobalt	8.7	B		P	
7440-50-8	Copper	38.6			P	
7439-89-6	Iron	43500			P	
7439-92-1	Lead	136			P	
7439-95-4	Magnesium	7650			P	
7439-96-5	Manganese	502			P	
7439-97-6	Mercury	0.13			AV	J
7440-02-2	Nickel	24.0			P	
7440-09-7	Potassium	1660			P	
7782-49-2	Selenium	1.3	U	W,N	FM	J
7440-22-4	Silver	1.4	U		P	
7440-23-5	Sodium	777	B		P	
7440-28-0	Thallium	0.38	B		FM	
7440-62-2	Vanadium	35.3			P	
7440-66-6	Zinc	979			P	
	Cyanide	0.64	U		CA	
					AS	

Color Before: BLACK Clarity Before: OPAQUE Texture: MEDIUM
Color After: BROWN Clarity After: CLOUDY Artifacts:
Comments:

FORM I - IN
SOIL

ILM03.0
03/95

B000010

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

EPA SAMPLE NO.

X109

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: GRIEDES WOOLENMILL
Lab Code: Case No.: SAS No.: SDG No.: 130
Matrix (Soil): Lab Sample ID: B505028
Level (Low/Med): Date Received: 04/27/95
% Solids: 89.6

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8240			P
7440-36-0	Antimony	6.9	U	N	P J
7440-38-2	Arsenic	7.3		S	FM
7440-39-3	Barium	111			P
7440-41-7	Beryllium	0.45	B		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	3600			P
7440-47-3	Chromium	12.2			P
7440-48-4	Cobalt	6.0	B		P
7440-50-8	Copper	10.6			P
7439-89-6	Iron	12400			P
7439-92-1	Lead	38.5			FM
7439-95-4	Magnesium	1480			P
7439-96-5	Manganese	526			P
7439-97-6	Mercury	0.16			AV J
7440-02-2	Nickel	10.1	~~B~~		P
7440-09-7	Potassium	1100	~~B~~		P
7782-49-2	Selenium	1.1	U	W,N	FM J
7440-22-4	Silver	1.2	U		P
7440-23-5	Sodium	71.6	B		P
7440-28-0	Thallium	0.23	U		FM
7440-62-2	Vanadium	21.7			P
7440-66-6	Zinc	119			P
	Cyanide	0.56	U		CA
					AS

Color Before: BLACK Clarity Before: OPAQUE Texture: MEDIUM
Color After: BROWN Clarity After: CLOUDY Artifacts:
Comments:

FORM I - IN
SOIL

ILM03.0
03/95

B000011

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

EPA SAMPLE NO.

X110

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: GRIEDES WOOLENMILL
Lab Code: Case No.: SAS No.: SDG No.: 130
Matrix (Soil): Lab Sample ID: B505029
Level (Low/Med): Date Received: 04/27/95
% Solids: 80.6

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	9700			P	
7440-36-0	Antimony	12.1	B	N	P	J
7440-38-2	Arsenic	13.4			FM	
7440-39-3	Barium	871			P	
7440-41-7	Beryllium	2.4			P	
7440-43-9	Cadmium	25.3			P	
7440-70-2	Calcium	43100			P	
7440-47-3	Chromium	18.4			P	
7440-48-4	Cobalt	7.1	B		P	
7440-50-8	Copper	26.4			P	
7439-89-6	Iron	29400			P	
7439-92-1	Lead	305			P	
7439-95-4	Magnesium	16300			P	
7439-96-5	Manganese	693			P	
7439-97-6	Mercury	0.14			AV	J
7440-02-2	Nickel	23.3			P	
7440-09-7	Potassium	1660			P	
7782-49-2	Selenium	1.2	U	W,N	FM	J
7440-22-4	Silver	1.4	U		P	
7440-23-5	Sodium	414	B		P	
7440-28-0	Thallium	0.46	B		FM	
7440-62-2	Vanadium	27.7			P	
7440-66-6	Zinc	2950			P	
	Cyanide	0.62	U		CA	
					AS	

Color Before: BLACK Clarity Before: OPAQUE Texture: MEDIUM
Color After: BROWN Clarity After: CLOUDY Artifacts:
Comments:

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03/95

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

EPA SAMPLE NO.

X201

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: GRIEDES WOOLENMILL
Lab Code: Case No.: SAS No.: SDG No.: 130
Matrix (Soil): Lab Sample ID: B505030
Level (Low/Med): Date Received: 04/27/95
% Solids: 70.6

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	16500			P	
7440-36-0	Antimony	8.2	B	N	P	J
7440-38-2	Arsenic	5.2			FM	
7440-39-3	Barium	217			P	
7440-41-7	Beryllium	7.0			P	
7440-43-9	Cadmium	3.0			P	
7440-70-2	Calcium	25800			P	
7440-47-3	Chromium	30.7			P	
7440-48-4	Cobalt	17.4			P	
7440-50-8	Copper	56.1			P	
7439-89-6	Iron	42800			P	
7439-92-1	Lead	15.9			FM	
7439-95-4	Magnesium	2690			P	
7439-96-5	Manganese	348			P	
7439-97-6	Mercury	0.04	U		AV	J
7440-02-2	Nickel	49.0			P	
7440-09-7	Potassium	1680			P	
7782-49-2	Selenium	1.3	U	W,N	FM	J
7440-22-4	Silver	1.3	U		P	
7440-23-5	Sodium	885	B		P	
7440-28-0	Thallium	0.26	U		FM	
7440-62-2	Vanadium	69.4			P	
7440-66-6	Zinc	365			P	
	Cyanide	0.71	U		CA	
					AS	

Color Before: BLACK Clarity Before: OPAQUE Texture: MEDIUM
Color After: RED Clarity After: CLOUDY Artifacts:
Comments:

FORM I - IN
SOIL

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03/95

B000013

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

EPA SAMPLE NO.

X202

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: GRIEDES WOOLENMILL
Lab Code: Case No.: SAS No.: SDG No.: 130
Matrix (Soil): Lab Sample ID: B505031
Level (Low/Med): Date Received: 04/27/95
% Solids: 63.1

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8670			P
7440-36-0	Antimony	8.3	U	N	P J
7440-38-2	Arsenic	7.6			FM
7440-39-3	Barium	127			P
7440-41-7	Beryllium	3.8			P
7440-43-9	Cadmium	1.2	U		P
7440-70-2	Calcium	13600			P
7440-47-3	Chromium	1070			P
7440-48-4	Cobalt	8.2	B		P
7440-50-8	Copper	35.2			P
7439-89-6	Iron	19700			P
7439-92-1	Lead	60.1		S	FM
7439-95-4	Magnesium	1630			P
7439-96-5	Manganese	81.7			P
7439-97-6	Mercury	0.11	B		AV J
7440-02-2	Nickel	24.6			P
7440-09-7	Potassium	846	B		P
7782-49-2	Selenium	1.8		S,N	FM J
7440-22-4	Silver	1.5	U		P
7440-23-5	Sodium	559	B		P
7440-28-0	Thallium	0.55	B		FM
7440-62-2	Vanadium	39.6			P
7440-66-6	Zinc	115			P
	Cyanide	0.79	U		CA
					AS

Color Before: BLACK Clarity Before: OPAQUE Texture: MEDIUM
Color After: RED Clarity After: CLOUDY Artifacts:
Comments:

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03/95

L000074

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

EPA SAMPLE NO.

X203

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: GRIEDES WOOLENMILL
Lab Code: Case No.: SAS No.: SDG No.: 130
Matrix (Soil): Lab Sample ID: B505032
Level (Low/Med): Date Received: 04/27/95
% Solids: 68.5

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6140			P
7440-36-0	Antimony	8.4	U	N	P J
7440-38-2	Arsenic	7.8		+	FM J
7440-39-3	Barium	108			P
7440-41-7	Beryllium	0.69	B		P
7440-43-9	Cadmium	2.4			P
7440-70-2	Calcium	57800			P
7440-47-3	Chromium	239			P
7440-48-4	Cobalt	5.8	B		P
7440-50-8	Copper	49.7			P
7439-89-6	Iron	14700			P
7439-92-1	Lead	189			P
7439-95-4	Magnesium	27600			P
7439-96-5	Manganese	200			P
7439-97-6	Mercury	0.20			AV J
7440-02-2	Nickel	15.5			P
7440-09-7	Potassium	720	B		P
7782-49-2	Selenium	1.4	U	W,N	FM J
7440-22-4	Silver	1.5	U		P
7440-23-5	Sodium	304	B		P
7440-28-0	Thallium	0.27	U		FM
7440-62-2	Vanadium	15.8			P
7440-66-6	Zinc	369			P
	Cyanide	0.73	U		CA
					AS

Color Before: BLACK Clarity Before: OPAQUE Texture: MEDIUM
Color After: BROWN Clarity After: CLOUDY Artifacts:
Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X204

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: GRIEDES WOOLENMILL
Lab Code: Case No.: SAS No.: SDG No.: 130
Matrix (Soil): Lab Sample ID: B505033
Level (Low/Med): Date Received: 04/27/95
% Solids: 62.4

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	7200			P	
7440-36-0	Antimony	10.0	U	N	P	J
7440-38-2	Arsenic	4.7		S	FM	
7440-39-3	Barium	144			P	
7440-41-7	Beryllium	0.74	B		P	
7440-43-9	Cadmium	2.2			P	
7440-70-2	Calcium	32300			P	
7440-47-3	Chromium	294			P	
7440-48-4	Cobalt	3.6	B		P	
7440-50-8	Copper	57.2			P	
7439-89-6	Iron	17800			P	
7439-92-1	Lead	262			P	
7439-95-4	Magnesium	14700			P	
7439-96-5	Manganese	189			P	
7439-97-6	Mercury	0.22			AV	J
7440-02-2	Nickel	19.5			P	
7440-09-7	Potassium	823	B		P	
7782-49-2	Selenium	1.5	U	W,N	FM	J
7440-22-4	Silver	1.8	U		P	
7440-23-5	Sodium	397	B		P	
7440-28-0	Thallium	0.30	U		FM	
7440-62-2	Vanadium	19.0			P	
7440-66-6	Zinc	416			P	
	Cyanide	0.80	U		CA	
					AS	

Color Before: BLACK Clarity Before: OPAQUE Texture: MEDIUM
Color After: BROWN Clarity After: CLOUDY Artifacts:
Comments:

FORM I - IN
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03/95

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

EPA SAMPLE NO.

X205

b Name: ILLINOIS EPA CHAMPAIGN LAB Contract: GRIEDES WOOLENMILL
Lab Code: Case No.: SAS No.: SDG No.: 130
Matrix (Soil): Lab Sample ID: B505034
Level (Low/Med): Date Received: 04/27/95
% Solids: 82.1

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4110			P
7440-36-0	Antimony	6.2	U	N	P J
7440-38-2	Arsenic	2.5			FM
7440-39-3	Barium	36.5	B		P
7440-41-7	Beryllium	0.24	B		P
7440-43-9	Cadmium	0.92	U		P
7440-70-2	Calcium	21900			P
7440-47-3	Chromium	7.9			P
7440-48-4	Cobalt	4.8	B		P
7440-50-8	Copper	8.1			P
7439-89-6	Iron	8120			P
7439-92-1	Lead	8.4			FM
7439-95-4	Magnesium	10800			P
7439-96-5	Manganese	289			P
7439-97-6	Mercury	0.03	U		AV J
7440-02-2	Nickel	10.3			P
7440-09-7	Potassium	551	B		P
7782-49-2	Selenium	1.1	U	W,N	FM J
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	62.8	B		P
7440-28-0	Thallium	0.22	U		FM
7440-62-2	Vanadium	11.4			P
7440-66-6	Zinc	35.4			P
	Cyanide	0.61	U		CA
					AS

Color Before: BLACK Clarity Before: OPAQUE Texture: MEDIUM
Color After: WHITE Clarity After: CLEAR Artifacts:
Comments:

FORM I - IN
SOIL

ILM03.0
03/95

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

b Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582286

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C0427BK04

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: not dec. 18 Date Analyzed: 04/27/95

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	9	J
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12	~~B~~ J U
67-64-1	Acetone	12	U J
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U J
71-55-6	1,1,1-Trichloroethane	6	J
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 J
591-78-6	2-Hexanone	12	U J
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582286

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C0427BK04

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: not dec. 18 Date Analyzed: 04/27/95

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

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

b Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582286

Sample wt/vol: 30.10 (g/mL) G Lab File ID: B0519E06

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 18 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/20/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	400	U
111-44-4	bis(2-Chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-Di-n-Propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
111-91-1	bis(2-Chloroethoxy)Methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-Methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	970	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	970	U
131-11-3	Dimethylphthalate	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	970	U
83-32-9	Acenaphthene	400	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582286

Sample wt/vol: 30.10 (g/mL) G Lab File ID: B0519E06

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 18 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/20/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	970	U
100-02-7	4-Nitrophenol	970	U
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
86-73-7	Fluorene	400	U
100-10-6	4-Nitroaniline	970	UJ
534-52-1	4,6-Dinitro-2-methylphenol	970	U
86-30-6	N-Nitrosodiphenylamine (1)	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	970	U
85-01-8	Phenanthrene	400	U
120-12-7	Anthracene	400	U
86-74-8	Carbazole	400	U
84-74-2	Di-n-Butylphthalate	410	~~B~~U
206-44-0	Fluoranthene	400	U
129-00-0	Pyrene	400	U
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)Anthracene	400	U
218-01-9	Chrysene	400	U
117-81-7	bis(2-Ethylhexyl)Phthalate	400	UJ
117-84-0	Di-n-Octyl Phthalate	400	UJ
205-99-2	Benzo(b)Fluoranthene	400	U
207-08-9	Benzo(k)Fluoranthene	400	U
50-32-8	Benzo(a)Pyrene	400	U
193-39-5	Indeno(1,2,3-cd)Pyrene	400	UJ
53-70-3	Dibenz(a,h)Anthracene	400	UJ
191-24-2	Benzo(g,h,i)Perylene	400	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X101

b Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582286

Sample wt/vol: 30.10 (g/mL) G Lab File ID: B0519E06

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 18 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/20/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.1

Number TICs found: 25

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. KETONE	8.45	920	BAJ
2.	UNKNOWN	8.95	2800	BJ
3. 123-42-2	2PENTANONE, 4HYDROXY-4METHYL	9.77	29000	JNBAU
4.	UNKNOWN ALIP. HYDROCARBON	10.05	250	BJ
5.	UNKNOWN	10.12	270	BJ
6.	UNKNOWN ALIP. HYDROCARBON	10.23	290	BJ
7.	UNKNOWN ALIP. HYDROCARBON	10.42	180	BJ
8.	UNKNOWN	11.32	110	BJ
9.	UNKNOWN	11.47	850	BJ
10.	UNKNOWN BROMO HEXANE	11.80	640	J
11.	UNKNOWN ALIP. KETONE	12.15	320	BAJ
12.	UNKNOWN	12.57	260	J
13.	UNKNOWN	13.13	940	J
14.	UNKNOWN	14.42	660	J
15.	UNKNOWN ALIP. ACID	23.80	130	BJ
16.	UNKNOWN ALIP. ACID	28.27	260	BJ
17.	UNKNOWN	34.02	780	BJ
18.	UNKNOWN	35.63	190	J
19.	UNKNOWN	35.80	230	J
20.	UNKNOWN	36.42	1900	J
21.	UNKNOWN	38.60	3300	J
22.	UNKNOWN	39.60	1400	J
23.	UNKNOWN	39.72	3900	J
24.	UNKNOWN	42.82	760	J
25.	UNKNOWN ALIP. HYDROCARBON	44.22	760	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582286

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

% Moisture: 18 decanted: (Y/N) N Date Received: 04/26/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/02/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/12/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	0.32	JP
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.0 ~~1.0~~	~~R~~JP U
72-55-9	4,4'-DDE	4.0	U
72-20-8	Endrin	1.5	JP
33213-65-9	Endosulfan II	4.0	U
50-29-3	4,4'-DDD	0.77	JP
1031-07-8	Endosulfan sulfate	0.56	JP
50-29-3	4,4'-DDT	1.3	J
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.0	U
7421-36-3	Endrin aldehyde	4.0	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U
12674-11-2	Aroclor-1016	40	U
11104-28-2	Aroclor-1221	81	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	40	U
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	40	U
11096-82-5	Aroclor-1260	10	JP

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

b Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582287

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C0427BK05

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: not dec. 14 Date Analyzed: 04/27/95

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	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12 ~~B~~	~~B~~ J U
67-64-1	Acetone	12	U J
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U J
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 J
591-78-6	2-Hexanone	12	U J
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582287

Sample wt/vol: 30.10 (g/mL) G Lab File ID: B0520E08

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 14 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/20/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	380	U
111-44-4	bis(2-Chloroethyl)Ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-Di-n-Propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
111-91-1	bis(2-Chloroethoxy)Methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	94	J
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	UJ
59-50-7	4-Chloro-3-Methylphenol	380	U
91-57-6	2-Methylnaphthalene	140	J
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	930	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	930	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	240	J
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	930	U
83-32-9	Acenaphthene	380	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582287

Sample wt/vol: 30.10 (g/mL) G Lab File ID: B0520E08

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 14 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/20/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	930	UJ
100-02-7	4-Nitrophenol	930	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	110	J
100-10-6	4-Nitroaniline	930	UR
534-52-1	4,6-Dinitro-2-methylphenol	930	U
86-30-6	N-Nitrosodiphenylamine (1)	380	UJ
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	UJ
87-86-5	Pentachlorophenol	930	U
85-01-8	Phenanthrene	1200	
120-12-7	Anthracene	190	J
86-74-8	Carbazole	190	J
84-74-2	Di-n-Butylphthalate	380	RJU
206-44-0	Fluoranthene	1600	
129-00-0	Pyrene	1500	
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)Anthracene	870	
218-01-9	Chrysene	1200	
117-81-7	bis(2-Ethylhexyl)Phthalate	380	U
117-84-0	Di-n-Octyl Phthalate	380	UJ
205-99-2	Benzo(b)Fluoranthene	900	
207-08-9	Benzo(k)Fluoranthene	1300	J
50-32-8	Benzo(a)Pyrene	1100	
193-39-5	Indeno(1,2,3-cd)Pyrene	380	U
53-70-3	Dibenz(a,h)Anthracene	380	UJ
191-24-2	Benzo(g,h,i)Perylene	1200	

(1) - Cannot be separated from Diphenylamine

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102DL

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582287D

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

% Moisture: 14 decanted: (Y/N) N Date Received: 04/26/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/02/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/16/95

Injection Volume: 1.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.7 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)	1.6	JPD
76-44-8	Heptachlor	20	U
309-00-2	Aldrin	17	DJ
1024-57-3	Heptachlor epoxide	2.6	DJ
959-98-8	Endosulfan I	20	U
60-57-1	Dieldrin	100	~~J~~PD
72-55-9	4,4'-DDE	38	U
72-20-8	Endrin	55	PD
33213-65-9	Endosulfan II	38	U
50-29-3	4,4'-DDD	6.6	JPD
1031-07-8	Endosulfan sulfate	38	U
50-29-3	4,4'-DDT	38	U
72-43-5	Methoxychlor	200	U
53494-70-5	Endrin ketone	38	U
7421-36-3	Endrin aldehyde	38	U
5103-71-9	alpha-Chlordane	20	U
5103-74-2	gamma-Chlordane	6.2	JPD
8001-35-2	Toxaphene	2000	U
12674-11-2	Aroclor-1016	380	U
11104-28-2	Aroclor-1221	780	U
11141-16-5	Aroclor-1232	380	U
53469-21-9	Aroclor-1242	380	U
12672-29-6	Aroclor-1248	380	U
11097-69-1	Aroclor-1254	380	U
11096-82-5	Aroclor-1260	170	JPD

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582287

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C0427BK05

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: not dec. 14 Date Analyzed: 04/27/95

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.

X102

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582287

Sample wt/vol: 30.10 (g/mL) G Lab File ID: B0520E08

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 14 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/20/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

Number TICs found: 24

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2PENTANONE, 4HYDROXY-4METHYL	9.90	50000	JNBAU
2.	UNKNOWN	13.17	1300	J
3.	UNKNOWN ALIP. ALCOHOL	21.87	2000	J
4.	UNKNOWN ALIP. ALCOHOL	24.78	1300	J
5.	UNKNOWN PHTHALATE	27.42	1400	J
6.	UNKNOWN PNA	32.13	1200	J
7.	UNKNOWN PNA	32.45	520	J
8.	UNKNOWN PNA	32.73	450	J
9.	UNKNOWN PNA	32.82	360	J
10.	UNKNOWN	33.08	320	J
11.	UNKNOWN	33.42	160	J
12.	UNKNOWN	33.67	600	J
13.	UNKNOWN	34.00	590	J
14.	UNKNOWN	34.07	1100	J
15.	UNKNOWN PNA	34.18	290	J
16.	UNKNOWN	34.30	430	J
17.	UNKNOWN	35.17	390	J
18.	UNKNOWN	35.27	190	J
19.	UNKNOWN	35.38	200	J
20.	UNKNOWN	35.65	180	J
21.	UNKNOWN PNA	36.35	490	J
22.	UNKNOWN	36.45	580	J
23.	UNKNOWN	36.53	180	J
24.	UNKNOWN	39.55	3000	J

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582287

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

% Moisture: 14 decanted: (Y/N) N Date Received: 04/26/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/02/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/16/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	1.4	JP
76-44-8	Heptachlor	0.45	JP
309-00-2	Aldrin	16	
1024-57-3	Heptachlor epoxide	3.2	
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	120	JP
72-55-9	4,4'-DDE	3.8	U
72-20-8	Endrin	59	
33213-65-9	Endosulfan II	3.8	U
50-29-3	4,4'-DDD	3.7	JP
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	12	
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.8	U
7421-36-3	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	4.6	
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	78	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	150	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582288

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C0427BK06

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: not dec. 17 Date Analyzed: 04/27/95

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	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	121	BJU
67-64-1	Acetone	12	UJ
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	UJ
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	UJ
591-78-6	2-Hexanone	12	UJ
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

b Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582288

Sample wt/vol: 30.10 (g/mL) G Lab File ID: B0520E06

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 17 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/20/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	400	U
111-44-4	bis(2-Chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-Di-n-Propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
111-91-1	bis(2-Chloroethoxy)Methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U J
59-50-7	4-Chloro-3-Methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	960	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	960	U
131-11-3	Dimethylphthalate	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	960	U
83-32-9	Acenaphthene	400	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582288

Sample wt/vol: 30.10 (g/mL) G Lab File ID: B0520E06

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 17 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/20/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	960	UJ
100-02-7	4-Nitrophenol	960	U
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
86-73-7	Fluorene	400	U
100-10-6	4-Nitroaniline	960	UR
534-52-1	4,6-Dinitro-2-methylphenol	960	U
86-30-6	N-Nitrosodiphenylamine (1)	400	UJ
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	UJ
87-86-5	Pentachlorophenol	960	U
85-01-8	Phenanthrene	680	
120-12-7	Anthracene	110	J
86-74-8	Carbazole	82	J
84-74-2	Di-n-Butylphthalate	480	BU
206-44-0	Fluoranthene	1800	
129-00-0	Pyrene	1300	
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)Anthracene	1000	
218-01-9	Chrysene	1300	
117-81-7	bis(2-Ethylhexyl)Phthalate	400	U
117-84-0	Di-n-Octyl Phthalate	400	UJ
205-99-2	Benzo(b)Fluoranthene	1200	
207-08-9	Benzo(k)Fluoranthene	1400	J
50-32-8	Benzo(a)Pyrene	930	
193-39-5	Indeno(1,2,3-cd)Pyrene	500	
53-70-3	Dibenz(a,h)Anthracene	400	UJ
191-24-2	Benzo(g,h,i)Perylene	580	

(1) - Cannot be separated from Diphenylamine

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103DL

Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582288D

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

% Moisture: 17 decanted: (Y/N) N Date Received: 04/26/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/02/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/17/95

Injection Volume: 1.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.9 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	23	D
1024-57-3	Heptachlor epoxide	5.1	DJ
959-98-8	Endosulfan I	20	U
60-57-1	Dieldrin	390	~~J~~D
72-55-9	4,4'-DDE	40	U
72-20-8	Endrin	31	JPD
33213-65-9	Endosulfan II	40	U
50-29-3	4,4'-DDD	16	DJ
1031-07-8	Endosulfan sulfate	0.99	JPD
50-29-3	4,4'-DDT	27	DJ
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	8.5	JPD
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	120	JPD
11096-82-5	Aroclor-1260	400	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582288

Sample wt/vol: 30.10 (g/mL) G Lab File ID: B0520E06

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 17 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/20/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 24

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2PENTANONE, 4HYDROXY-4METHYL	9.85	46000	JNBA
2.	UNKNOWN	13.13	1100	J
3.	UNKNOWN PHTHALATE	27.38	1500	J
4.	UNKNOWN PNA	31.43	180	J
5. 60-57-1	DIELDRIN	31.73	230	JN
6.	UNKNOWN PNA	32.08	840	J
7.	UNKNOWN PNA	32.40	310	J
8.	UNKNOWN PNA	32.68	180	J
9.	UNKNOWN	33.03	210	J
10.	UNKNOWN	33.37	100	J
11.	UNKNOWN AROMATIC KETONE	33.62	470	J
12.	UNKNOWN PNA	33.95	540	J
13.	UNKNOWN	34.03	860	J
14.	UNKNOWN PNA	34.13	260	J
15.	UNKNOWN	34.25	380	J
16.	UNKNOWN	35.12	200	J
17.	UNKNOWN PNA	35.22	260	J
18.	UNKNOWN	35.63	120	J
19.	UNKNOWN PNA	36.32	420	J
20.	UNKNOWN ALIP. HYDROCARBON	36.40	720	J
21.	UNKNOWN	36.48	160	J
22.	UNKNOWN	36.92	180	J
23.	UNKNOWN	39.48	2000	J
24.	UNKNOWN	39.58	4600	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582288

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C0427BK06

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: not dec. 17 Date Analyzed: 04/27/95

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

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582288

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

% Moisture: 17 decanted: (Y/N) N Date Received: 04/26/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/02/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/17/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	0.67	JP
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	0.80	JP
76-44-8	Heptachlor	0.43	JP
309-00-2	Aldrin	25	
1024-57-3	Heptachlor epoxide	2.5	P
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	380	~~P~~
72-55-9	4,4'-DDE	4.0	U
72-20-8	Endrin	35	P
33213-65-9	Endosulfan II	4.0	U
50-29-3	4,4'-DDD	10	P
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4'-DDT	26	P
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	17	
7421-36-3	Endrin aldehyde	4.0	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	8.8	P
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	40	U
11104-28-2	Aroclor-1221	80	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	40	U
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	97	P
11096-82-5	Aroclor-1260	130	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582289

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C0427BK07

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: not dec. 17 Date Analyzed: 04/27/95

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	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	~~12~~ 11	~~U~~ BJ
67-64-1	Acetone	12	UJ
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	UJ
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	UJ
591-78-6	2-Hexanone	12	UJ
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582289

Sample wt/vol: 30.10 (g/mL) G Lab File ID: B0520E03

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 17 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/20/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	400	U
111-44-4	bis(2-Chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-Di-n-Propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
111-91-1	bis(2-Chloroethoxy)Methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	UJ
59-50-7	4-Chloro-3-Methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	960	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	960	U
131-11-3	Dimethylphthalate	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	960	U
83-32-9	Acenaphthene	400	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

b Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582289

Sample wt/vol: 30.10 (g/mL) G Lab File ID: B0520E03

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 17 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/20/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	960	UJ
100-02-7	4-Nitrophenol	960	U
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
86-73-7	Fluorene	400	U
100-10-6	4-Nitroaniline	960	UR
534-52-1	4,6-Dinitro-2-methylphenol	960	U
86-30-6	N-Nitrosodiphenylamine (1)	400	UJ
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	UJ
87-86-5	Pentachlorophenol	960	U
85-01-8	Phenanthrene	600	
120-12-7	Anthracene	130	J
86-74-8	Carbazole	81	J
84-74-2	Di-n-Butylphthalate	530	BU
206-44-0	Fluoranthene	1600	
129-00-0	Pyrene	1000	
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)Anthracene	880	
218-01-9	Chrysene	1100	
117-81-7	bis(2-Ethylhexyl)Phthalate	400	U
117-84-0	Di-n-Octyl Phthalate	400	UJ
205-99-2	Benzo(b)Fluoranthene	1300	
207-08-9	Benzo(k)Fluoranthene	1500	J
50-32-8	Benzo(a)Pyrene	1300	
193-39-5	Indeno(1,2,3-cd)Pyrene	540	
53-70-3	Dibenz(a,h)Anthracene	400	UJ
191-24-2	Benzo(g,h,i)Perylene	540	

(1) - Cannot be separated from Diphenylamine

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104DL

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582289D

Sample wt/vol: 30.5 (g/mL) G Lab File ID: _____

% Moisture: 17 decanted: (Y/N) N Date Received: 04/26/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/02/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/15/95

Injection Volume: 1.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.7 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	12	DJ
1024-57-3	Heptachlor epoxide	3.2	DJ
959-98-8	Endosulfan I	20	U
60-57-1	Dieldrin	410	~~B~~DC
72-55-9	4,4'-DDE	39	U
72-20-8	Endrin	37	DJ
33213-65-9	Endosulfan II	39	U
50-29-3	4,4'-DDD	16	DJ
1031-07-8	Endosulfan sulfate	39	U
50-29-3	4,4'-DDT	27	JPD
72-43-5	Methoxychlor	200	U
53494-70-5	Endrin ketone	39	U
7421-36-3	Endrin aldehyde	39	U
5103-71-9	alpha-Chlordane	20	U
5103-74-2	gamma-Chlordane	9.5	JPD
8001-35-2	Toxaphene	2000	U
12674-11-2	Aroclor-1016	390	U
11104-28-2	Aroclor-1221	790	U
11141-16-5	Aroclor-1232	390	U
53469-21-9	Aroclor-1242	390	U
12672-29-6	Aroclor-1248	390	U
11097-69-1	Aroclor-1254	94 ~~93~~	JPD
11096-82-5	Aroclor-1260	230	DJ

MCN 5/24/95

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X104

Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582289

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C0427BK07

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: not dec. 17 Date Analyzed: 04/27/95

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.

X104

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582289

Sample wt/vol: 30.10 (g/mL) G Lab File ID: B0520E03

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 17 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/20/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

Number TICs found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	8.95	2600	BJ
2. 123-42-2	2PENTANONE, 4HYDROXY-4METHYL	9.83	51000	JNBAU
3.	UNKNOWN ALIP. HYDROCARBON	10.05	360	BJ
4.	UNKNOWN ALIP. HYDROCARBON	10.23	450	BJ
5.	UNKNOWN	11.47	530	BJ
6.	UNKNOWN	13.13	870	J
7.	UNKNOWN	14.42	810	J
8.	UNKNOWN ALIP. HYDROCARBON	25.13	430	J
9.	UNKNOWN PHTHALATE	27.40	1800	J
10.	UNKNOWN PNA	28.30	250	J
11.	UNKNOWN PNA	28.67	520	J
12.	UNKNOWN PNA	29.98	170	J
13.	UNKNOWN AROMATIC KETONE	30.23	190	J
14.	UNKNOWN ALIP. HYDROCARBON	31.02	160	J
15.	UNKNOWN	31.77	420	J
16.	UNKNOWN PNA	32.10	820	J
17.	UNKNOWN PNA	32.28	320	J
18.	UNKNOWN PNA	32.42	270	J
19.	UNKNOWN PNA	32.70	170	J
20.	UNKNOWN	33.07	170	J
21.	UNKNOWN AROMATIC KETONE	33.63	430	J
22.	UNKNOWN PNA	33.98	520	J
23.	UNKNOWN	34.05	740	BJ
24.	UNKNOWN PNA	34.17	280	J
25.	UNKNOWN AROMATIC KETONE	34.27	390	J
26.	UNKNOWN PNA	35.23	290	J
27.	UNKNOWN	35.63	160	J
28.	UNKNOWN PNA	36.32	480	J
29.	UNKNOWN ALIP. HYDROCARBON	36.42	730	J
30.	UNKNOWN PNA	36.50	200	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582289

Sample wt/vol: 30.5 (g/mL) G Lab File ID: _____

% Moisture: 17 decanted: (Y/N) N Date Received: 04/26/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/02/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/16/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	0.89	JP
76-44-8	Heptachlor	0.51	JP
309-00-2	Aldrin	12	
1024-57-3	Heptachlor epoxide	2.8	P
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	410	~~B~~C
72-55-9	4,4'-DDE	3.9	U
72-20-8	Endrin	29	P
33213-65-9	Endosulfan II	3.9	U
50-29-3	4,4'-DDD	7.6	P
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4'-DDT	21	P
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	17	
7421-36-3	Endrin aldehyde	3.9	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	8.1	P
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	79	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	84	P
11096-82-5	Aroclor-1260	110	P

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582290

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C0427BK08

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: not dec. 12 Date Analyzed: 04/27/95

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	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	16	BU
67-64-1	Acetone	11	UJ
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	UJ
71-55-6	1,1,1-Trichloroethane	11	UJ
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	UJ
591-78-6	2-Hexanone	11	UJ
127-18-4	Tetrachloroethene	11	UJ
79-34-5	1,1,2,2-Tetrachloroethane	11	UJ
108-88-3	Toluene	11	UJ
108-90-7	Chlorobenzene	11	UJ
100-41-4	Ethylbenzene	11	UJ
100-42-5	Styrene	11	UJ
1330-20-7	Xylene (total)	11	UJ

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582290

Sample wt/vol: 30.10 (g/mL) G Lab File ID: B0519E11

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 12 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/20/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	370	U
111-44-4	bis(2-Chloroethyl)Ether	370	U
95-57-8	2-Chlorophenol	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
95-50-1	1,2-Dichlorobenzene	370	U
95-48-7	2-Methylphenol	370	U
108-60-1	2,2'-oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-Di-n-Propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
111-91-1	bis(2-Chloroethoxy)Methane	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-Methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	910	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	910	U
131-11-3	Dimethylphthalate	370	U
208-96-8	Acenaphthylene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
99-09-2	3-Nitroaniline	910	U
83-32-9	Acenaphthene	370	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582290

Sample wt/vol: 30.10 (g/mL) G Lab File ID: B0519E11

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 12 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/20/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	910	U
100-02-7	4-Nitrophenol	910	U
132-64-9	Dibenzofuran	370	U
121-14-2	2,4-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
86-73-7	Fluorene	370	U
100-10-6	4-Nitroaniline	910	UJ
534-52-1	4,6-Dinitro-2-methylphenol	910	U
86-30-6	N-Nitrosodiphenylamine (1)	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	910	U
85-01-8	Phenanthrene	370	U
120-12-7	Anthracene	370	U
86-74-8	Carbazole	370	U
84-74-2	Di-n-Butylphthalate	440	~~B~~ U
206-44-0	Fluoranthene	370	U
129-00-0	Pyrene	370	U
85-68-7	Butylbenzylphthalate	370	U
91-94-1	3,3'-Dichlorobenzidine	370	U
56-55-3	Benzo(a)Anthracene	370	U
218-01-9	Chrysene	370	U
117-81-7	bis(2-Ethylhexyl)Phthalate	370	UJ
117-84-0	Di-n-Octyl Phthalate	370	UJ
205-99-2	Benzo(b)Fluoranthene	370	U
207-08-9	Benzo(k)Fluoranthene	370	U
50-32-8	Benzo(a)Pyrene	370	U
193-39-5	Indeno(1,2,3-cd)Pyrene	370	UJ
53-70-3	Dibenz(a,h)Anthracene	370	UJ
191-24-2	Benzo(g,h,i)Perylene	370	U

(1) - Cannot be separated from Diphenylamine

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582290

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

% Moisture: 12 decanted: (Y/N) N Date Received: 04/26/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/02/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/11/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.7	J
1024-57-3	Heptachlor epoxide	0.33	JP
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	38	~~J~~
72-55-9	4,4'-DDE	3.7	U
72-20-8	Endrin	2.7	J
33213-65-9	Endosulfan II	3.7	U
50-29-3	4,4'-DDD	1.1	J
1031-07-8	Endosulfan sulfate	3.7	U
50-29-3	4,4'-DDT	1.8	J
72-43-5	Methoxychlor	19	U
53494-70-5	Endrin ketone	1.1	JP
7421-36-3	Endrin aldehyde	3.7	U
5103-71-9	alpha-Chlordane	1.6	J
5103-74-2	gamma-Chlordane	1.5	J
8001-35-2	Toxaphene	190	U
12674-11-2	Aroclor-1016	37	U
11104-28-2	Aroclor-1221	76	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	37	U
11096-82-5	Aroclor-1260	37	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582290

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C0427BK08

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: not dec. 12 Date Analyzed: 04/27/95

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

`b Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582290

Sample wt/vol: 30.10 (g/mL) G Lab File ID: B0519E11

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 12 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/20/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.1

Number TICs found: 24

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. KETONE	8.47	930	BAJ
2.	UNKNOWN ALIP. HYDROCARBON	9.17	370	J
3.	UNKNOWN ALIP. HYDROCARBON	9.52	210	J
4. 123-42-2	2PENTANONE, 4HYDROXY-4METHYL	9.90	6600	JNBAU
5.	UNKNOWN ALIP. HYDROCARBON	10.07	420	BJ
6.	UNKNOWN	10.13	280	BJ
7.	UNKNOWN ALIP. HYDROCARBON	10.25	480	BJ
8.	UNKNOWN ALIP. HYDROCARBON	10.43	330	BJ
9.	UNKNOWN	11.33	110	BJ
10.	UNKNOWN	11.47	650	BJ
11.	UNKNOWN ALIP. KETONE	12.15	270	BAJ
12.	UNKNOWN	12.58	410	J
13.	UNKNOWN	13.13	670	J
14.	UNKNOWN	14.43	1300	J
15.	UNKNOWN ALIP. HYDROCARBON	14.62	330	J
16.	UNKNOWN ALIP. HYDROCARBON	22.22	170	J
17.	UNKNOWN ALIP. HYDROCARBON	23.67	150	J
18.	UNKNOWN ALIP. ACID	23.80	140	BJ
19.	UNKNOWN ALIP. HYDROCARBON	25.03	230	J
20.	UNKNOWN ALIP. HYDROCARBON	25.13	300	J
21.	UNKNOWN ALIP. HYDROCARBON	26.35	190	J
22.	UNKNOWN ALIP. HYDROCARBON	26.50	190	J
23.	UNKNOWN ALIP. HYDROCARBON	27.58	100	J
24.	UNKNOWN	34.03	330	BJ

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582291

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C0427BK09

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: not dec. 14 Date Analyzed: 04/27/95

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	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	~~12~~ 10	~~B~~ J U
67-64-1	Acetone	12	U J
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U J
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 J
591-78-6	2-Hexanone	12	U J
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

b Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582291

Sample wt/vol: 30.10 (g/mL) G Lab File ID: B0519E08

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 14 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/20/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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	380	U
111-44-4	bis(2-Chloroethyl)Ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-Di-n-Propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
111-91-1	bis(2-Chloroethoxy)Methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-Methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	930	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	930	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	930	U
83-32-9	Acenaphthene	380	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582291

Sample wt/vol: 30.10 (g/mL) G Lab File ID: B0519E08

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 14 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/20/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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	930	U
100-02-7	4-Nitrophenol	930	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	380	U
100-10-6	4-Nitroaniline	930	UJ
534-52-1	4,6-Dinitro-2-methylphenol	930	U
86-30-6	N-Nitrosodiphenylamine (1)	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	930	U
85-01-8	Phenanthrene	85	J
120-12-7	Anthracene	380	U
86-74-8	Carbazole	380	U
84-74-2	Di-n-Butylphthalate	400	BU
206-44-0	Fluoranthene	240	J
129-00-0	Pyrene	200	J
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)Anthracene	380	U
218-01-9	Chrysene	380	U
117-81-7	bis(2-Ethylhexyl)Phthalate	380	UJ
117-84-0	Di-n-Octyl Phthalate	380	UJ
205-99-2	Benzo(b)Fluoranthene	380	U
207-08-9	Benzo(k)Fluoranthene	380	U
50-32-8	Benzo(a)Pyrene	380	U
193-39-5	Indeno(1,2,3-cd)Pyrene	380	UJ
53-70-3	Dibenz(a,h)Anthracene	380	UJ
191-24-2	Benzo(g,h,i)Perylene	380	U

(1) - Cannot be separated from Diphenylamine

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582291

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

% Moisture: 14 decanted: (Y/N) N Date Received: 04/26/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/02/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/19/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

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	0.26	JP
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	0.36	JP
76-44-8	Heptachlor	0.086	JP
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	1.9	JP
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	31	~~B~~P
72-55-9	4,4'-DDE	3.8	U
72-20-8	Endrin	26	
33213-65-9	Endosulfan II	3.8	U
50-29-3	4,4'-DDD	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	3.8	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.8	U
7421-36-3	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	4.1	P
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	77	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	150	
11096-82-5	Aroclor-1260	130	

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582291

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C0427BK09

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: not dec. 14 Date Analyzed: 04/27/95

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.

X106

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582291

Sample wt/vol: 30.10 (g/mL) G Lab File ID: B0519E08

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 14 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/20/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 18

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2PENTANONE, 4HYDROXY-4METHYL	9.90	33000	JNBAU
2.	UNKNOWN	33.65	230	J
3.	UNKNOWN	33.78	350	J
4.	UNKNOWN	34.10	1000	BJ
5.	UNKNOWN	34.17	190	J
6.	UNKNOWN	34.35	220	J
7.	UNKNOWN	34.47	200	J
8.	UNKNOWN	34.57	78	J
9.	UNKNOWN	34.65	150	J
10.	UNKNOWN	35.15	91	J
11.	UNKNOWN	35.23	120	J
12.	UNKNOWN	35.35	140	J
13.	UNKNOWN	35.45	130	J
14.	UNKNOWN	35.58	180	J
15.	UNKNOWN	35.63	870	J
16.	UNKNOWN	35.90	160	J
17.	UNKNOWN	36.03	320	J
18.	UNKNOWN	36.12	580	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582292

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C0427BK10

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: not dec. 11 Date Analyzed: 04/27/95

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	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11 ~~129~~	~~B~~ J U
67-64-1	Acetone	11	U J
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 J
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 J
591-78-6	2-Hexanone	11	U J
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107

b Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582292

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B0519E12

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 11 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/20/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	370	U
111-44-4	bis(2-Chloroethyl)Ether	370	U
95-57-8	2-Chlorophenol	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
95-50-1	1,2-Dichlorobenzene	370	U
95-48-7	2-Methylphenol	370	U
108-60-1	2,2'-oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-Di-n-Propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
111-91-1	bis(2-Chloroethoxy)Methane	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-Methylphenol	370	U
91-57-6	2-Methylnaphthalene	110	J
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	890	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	890	U
131-11-3	Dimethylphthalate	370	U
208-96-8	Acenaphthylene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
99-09-2	3-Nitroaniline	890	U
83-32-9	Acenaphthene	80	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582292

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B0519E12

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 11 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/20/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	890	U
100-02-7	4-Nitrophenol	890	U
132-64-9	Dibenzofuran	83	J
121-14-2	2,4-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
86-73-7	Fluorene	100	J
100-10-6	4-Nitroaniline	890	UJ
534-52-1	4,6-Dinitro-2-methylphenol	890	U
86-30-6	N-Nitrosodiphenylamine (1)	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	890	U
85-01-8	Phenanthrene	980	
120-12-7	Anthracene	220	J
86-74-8	Carbazole	93	J
84-74-2	Di-n-Butylphthalate	380	~~B~~U
206-44-0	Fluoranthene	1800	
129-00-0	Pyrene	1200	
85-68-7	Butylbenzylphthalate	370	U
91-94-1	3,3'-Dichlorobenzidine	370	U
56-55-3	Benzo(a)Anthracene	1100	
218-01-9	Chrysene	1200	
117-81-7	bis(2-Ethylhexyl)Phthalate	370	UJ
117-84-0	Di-n-Octyl Phthalate	370	UJ
205-99-2	Benzo(b)Fluoranthene	940	
207-08-9	Benzo(k)Fluoranthene	1300	
50-32-8	Benzo(a)Pyrene	860	
193-39-5	Indeno(1,2,3-cd)Pyrene	340	J
53-70-3	Dibenz(a,h)Anthracene	370	UJ
191-24-2	Benzo(g,h,i)Perylene	320	J

(1) - Cannot be separated from Diphenylamine

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107DL

Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: 582292DD

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

% Moisture: 11 decanted: (Y/N) N Date Received: 04/26/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/02/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/16/95

Injection Volume: 1.00 (uL) Dilution Factor: 100

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	190	U
319-85-7	beta-BHC	190	U
319-86-8	delta-BHC	190	U
58-89-9	gamma-BHC (Lindane)	190	U
76-44-8	Heptachlor	190	U
309-00-2	Aldrin	20	DJ
1024-57-3	Heptachlor epoxide	190	U
959-98-8	Endosulfan I	190	U
60-57-1	Dieldrin	720	~~B~~DC
72-55-9	4,4'-DDE	370	U
72-20-8	Endrin	81	DJ
33213-65-9	Endosulfan II	370	U
50-29-3	4,4'-DDD	370	U
1031-07-8	Endosulfan sulfate	370	U
50-29-3	4,4'-DDT	370	U
72-43-5	Methoxychlor	1900	U
53494-70-5	Endrin ketone	370	U
7421-36-3	Endrin aldehyde	370	U
5103-71-9	alpha-Chlordane	190	U
5103-74-2	gamma-Chlordane	190	U
8001-35-2	Toxaphene	19000	U
12674-11-2	Aroclor-1016	3700	U
11104-28-2	Aroclor-1221	7500	U
11141-16-5	Aroclor-1232	3700	U
53469-21-9	Aroclor-1242	3700	U
12672-29-6	Aroclor-1248	3700	U
11097-69-1	Aroclor-1254	3700	U
11096-82-5	Aroclor-1260	3700	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X107

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582292

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C0427BK10

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: not dec. 11 Date Analyzed: 04/27/95

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.

X107

b Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582292

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B0519E12

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 11 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/20/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 28

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	8.95	2500	BJ
2. 123-42-2	2PENTANONE, 4HYDROXY-4METHYL	9.87	39000	JNBA
3.	UNKNOWN	14.43	1000	J
4.	UNKNOWN PHTHALATE	27.40	1400	J
5. 51218-45-2	METOLACHLOR	29.07	950	JN
6.	UNKNOWN PNA	31.07	790	J
7.	UNKNOWN PNA	31.43	210	J
8. 60-57-1	DIELDRIN	31.75	330	JN
9.	UNKNOWN ALIP. HYDROCARBON	32.05	450	J
10.	UNKNOWN PNA	32.10	810	J
11.	UNKNOWN PNA	32.28	240	J
12.	UNKNOWN PNA	32.42	310	J
13.	UNKNOWN PNA	32.70	210	J
14.	UNKNOWN PNA	32.80	180	J
15.	UNKNOWN ALIP. HYDROCARBON	33.07	400	J
16.	UNKNOWN	33.38	110	J
17.	UNKNOWN AROMATIC KETONE	33.63	510	J
18.	UNKNOWN PNA	33.98	470	J
19.	UNKNOWN	34.07	910	J
20.	UNKNOWN PNA	34.17	280	J
21.	UNKNOWN	34.27	410	J
22.	UNKNOWN PNA	34.50	81	J
23.	UNKNOWN ALIP. HYDROCARBON	35.15	350	J
24.	UNKNOWN PNA	35.23	240	J
25.	UNKNOWN	35.45	150	J
26.	UNKNOWN	35.63	110	J
27.	UNKNOWN PNA	36.33	450	J
28.	UNKNOWN	36.42	680	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582292D

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

% Moisture: 11 decanted: (Y/N) N Date Received: 04/26/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/02/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/15/95

Injection Volume: 1.00 (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	19	U
319-85-7	beta-BHC	19	U
319-86-8	delta-BHC	19	U
58-89-9	gamma-BHC (Lindane)	4.8	JP
76-44-8	Heptachlor	19	U
309-00-2	Aldrin	23	
1024-57-3	Heptachlor epoxide	7.0	J
959-98-8	Endosulfan I	19	U
60-57-1	Dieldrin	720	~~B~~P C
72-55-9	4,4'-DDE	37	U
72-20-8	Endrin	94	
33213-65-9	Endosulfan II	37	U
50-29-3	4,4'-DDD	6.9	JP
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	35	JP
7421-36-3	Endrin aldehyde	37	U
5103-71-9	alpha-Chlordane	19	U
5103-74-2	gamma-Chlordane	7.3	JP
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	260	JP

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X108

b Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582293

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C0427BK11

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: not dec. 19 Date Analyzed: 04/27/95

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	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12 ~~B~~	~~B~~JU
67-64-1	Acetone	12	UJ
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	UJ
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	UJ
591-78-6	2-Hexanone	12	UJ
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X108

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582293

Sample wt/vol: 30.10 (g/mL) G Lab File ID: B0520E04

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 19 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/20/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	410	U
111-44-4	bis(2-Chloroethyl)Ether	410	U
95-57-8	2-Chlorophenol	410	U
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
95-50-1	1,2-Dichlorobenzene	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	2,2'-oxybis(1-Chloropropane)	410	U
106-44-5	4-Methylphenol	410	U
621-64-7	N-Nitroso-Di-n-Propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
111-91-1	bis(2-Chloroethoxy)Methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
120-82-1	1,2,4-Trichlorobenzene	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	UJ
59-50-7	4-Chloro-3-Methylphenol	410	U
91-57-6	2-Methylnaphthalene	120	J
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	980	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	980	U
131-11-3	Dimethylphthalate	410	U
208-96-8	Acenaphthylene	250	J
606-20-2	2,6-Dinitrotoluene	410	U
99-09-2	3-Nitroaniline	980	U
83-32-9	Acenaphthene	410	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X108

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582293

Sample wt/vol: 30.10 (g/mL) G Lab File ID: B0520E04

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 19 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/20/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	980	UJ
100-02-7	4-Nitrophenol	980	U
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
86-73-7	Fluorene	130	J
100-10-6	4-Nitroaniline	980	UR
534-52-1	4,6-Dinitro-2-methylphenol	980	U
86-30-6	N-Nitrosodiphenylamine (1)	410	UJ
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	UJ
87-86-5	Pentachlorophenol	980	U
85-01-8	Phenanthrene	1500	
120-12-7	Anthracene	110	J
86-74-8	Carbazole	240	J
84-74-2	Di-n-Butylphthalate	530	~~B~~U
206-44-0	Fluoranthene	1900	
129-00-0	Pyrene	1700	
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)Anthracene	1200	
218-01-9	Chrysene	1600	
117-81-7	bis(2-Ethylhexyl)Phthalate	410	U
117-84-0	Di-n-Octyl Phthalate	410	UJ
205-99-2	Benzo(b)Fluoranthene	1200	
207-08-9	Benzo(k)Fluoranthene	1200	J
50-32-8	Benzo(a)Pyrene	900	
193-39-5	Indeno(1,2,3-cd)Pyrene	410	U
53-70-3	Dibenz(a,h)Anthracene	410	UJ
191-24-2	Benzo(g,h,i)Perylene	360	J

(1) - Cannot be separated from Diphenylamine

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X108DL

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: 582293DD

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

% Moisture: 19 decanted: (Y/N) N Date Received: 04/26/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/02/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/17/95

Injection Volume: 1.00 (uL) Dilution Factor: 100

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

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

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	210	U
319-85-7	beta-BHC	210	U
319-86-8	delta-BHC	210	U
58-89-9	gamma-BHC (Lindane)	210	U
76-44-8	Heptachlor	210	U
309-00-2	Aldrin	210	U
1024-57-3	Heptachlor epoxide	210	U
959-98-8	Endosulfan I	210	U
60-57-1	Dieldrin	120	~~J~~JPD
72-55-9	4,4'-DDE	1200	D C
72-20-8	Endrin	19	JPD
33213-65-9	Endosulfan II	410	U
50-29-3	4,4'-DDD	110	JPD
1031-07-8	Endosulfan sulfate	410	U
50-29-3	4,4'-DDT	3700	D C
72-43-5	Methoxychlor	2100	U
53494-70-5	Endrin ketone	410	U
7421-36-3	Endrin aldehyde	410	U
5103-71-9	alpha-Chlordane	210	U
5103-74-2	gamma-Chlordane	210	U
8001-35-2	Toxaphene	21000	U
12674-11-2	Aroclor-1016	4100	U
11104-28-2	Aroclor-1221	8200	U
11141-16-5	Aroclor-1232	4100	U
53469-21-9	Aroclor-1242	4100	U
12672-29-6	Aroclor-1248	4100	U
11097-69-1	Aroclor-1254	4100	U
11096-82-5	Aroclor-1260	4100	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X108

Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582293

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C0427BK11

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: not dec. 19 Date Analyzed: 04/27/95

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.

X108

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582293

Sample wt/vol: 30.10 (g/mL) G Lab File ID: B0520E04

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 19 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/20/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 28

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	8.98	2100	BJ
2. 123-42-2	2PENTANONE, 4HYDROXY-4METHYL	9.95	24000	JNBAU
3.	UNKNOWN	13.18	2100	J
4.	UNKNOWN	14.47	1200	J
5.	UNKNOWN PHTHALATE	27.43	1700	J
6.	UNKNOWN ALIP. HYDROCARBON	31.05	280	J
7. 72-55-9	DDE	31.45	1100	JN
8.	UNKNOWN PNA	31.82	440	J
9.	UNKNOWN ALIP. HYDROCARBON	32.08	480	J
10.	UNKNOWN PNA	32.13	810	J
11.	UNKNOWN PNA	32.32	280	J
12. 53-19-0	DDD	32.43	230	JN
13.	UNKNOWN PNA	32.45	360	J
14.	UNKNOWN	32.57	490	J
15.	UNKNOWN PNA	32.73	230	J
16.	UNKNOWN PNA	32.83	180	J
17.	UNKNOWN ALIP. HYDROCARBON	33.10	360	J
18. 50-29-3	DDT	33.32	2600	JN
19.	UNKNOWN PNA	33.68	470	J
20.	UNKNOWN PNA	34.02	550	J
21.	UNKNOWN	34.08	1100	J
22.	UNKNOWN PNA	34.20	260	J
23.	UNKNOWN AROMATIC KETONE	34.30	400	J
24.	UNKNOWN	34.53	94	J
25.	UNKNOWN ALIP. HYDROCARBON	35.18	330	J
26.	UNKNOWN	35.27	170	J
27.	UNKNOWN AROMATIC KETONE	35.38	310	J
28.	UNKNOWN	35.67	130	J

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X108

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582293D

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

% Moisture: 19 decanted: (Y/N) N Date Received: 04/26/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/02/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/17/95

Injection Volume: 1.00 (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	21	U
319-85-7	beta-BHC	21	U
319-86-8	delta-BHC	21	U
58-89-9	gamma-BHC (Lindane)	7.1	JP
76-44-8	Heptachlor	21	U
309-00-2	Aldrin	8.2	J
1024-57-3	Heptachlor epoxide	21	U
959-98-8	Endosulfan I	21	U
60-57-1	Dieldrin	130	~~B~~P
72-55-9	4,4'-DDE	1300	C
72-20-8	Endrin	84	
33213-65-9	Endosulfan II	41	U
50-29-3	4,4'-DDD	73	P
1031-07-8	Endosulfan sulfate	41	U
50-29-3	4,4'-DDT	3600	C
72-43-5	Methoxychlor	210	U
53494-70-5	Endrin ketone	41	U
7421-36-3	Endrin aldehyde	41	U
5103-71-9	alpha-Chlordane	21	U
5103-74-2	gamma-Chlordane	21	U
8001-35-2	Toxaphene	2100	U
12674-11-2	Aroclor-1016	410	U
11104-28-2	Aroclor-1221	820	U
11141-16-5	Aroclor-1232	410	U
53469-21-9	Aroclor-1242	410	U
12672-29-6	Aroclor-1248	410	U
11097-69-1	Aroclor-1254	410	U
11096-82-5	Aroclor-1260	410	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X109

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582294

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C0427BK12

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: not dec. 10 Date Analyzed: 04/27/95

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	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11 6	~~B~~ J U
67-64-1	Acetone	11	U J
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 J
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 J
591-78-6	2-Hexanone	11	U J
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X109

b Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582294

Sample wt/vol: 30.10 (g/mL) G Lab File ID: B0519E07

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 10 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/20/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	370	U
111-44-4	bis(2-Chloroethyl)Ether	370	U
95-57-8	2-Chlorophenol	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
95-50-1	1,2-Dichlorobenzene	370	U
95-48-7	2-Methylphenol	370	U
108-60-1	2,2'-oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-Di-n-Propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
111-91-1	bis(2-Chloroethoxy)Methane	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-Methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	890	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	890	U
131-11-3	Dimethylphthalate	370	U
208-96-8	Acenaphthylene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
99-09-2	3-Nitroaniline	890	U
83-32-9	Acenaphthene	370	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X109

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582294

Sample wt/vol: 30.10 (g/mL) G Lab File ID: B0519E07

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 10 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/20/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	890	U
100-02-7	4-Nitrophenol	890	U
132-64-9	Dibenzofuran	370	U
121-14-2	2,4-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
86-73-7	Fluorene	370	U
100-10-6	4-Nitroaniline	890	U J
534-52-1	4,6-Dinitro-2-methylphenol	890	U
86-30-6	N-Nitrosodiphenylamine (1)	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	890	U
85-01-8	Phenanthrene	77	J
120-12-7	Anthracene	370	U
86-74-8	Carbazole	370	U
84-74-2	Di-n-Butylphthalate	560	BU
206-44-0	Fluoranthene	130	J
129-00-0	Pyrene	83	J
85-68-7	Butylbenzylphthalate	370	U
91-94-1	3,3'-Dichlorobenzidine	370	U
56-55-3	Benzo(a)Anthracene	370	U
218-01-9	Chrysene	370	U
117-81-7	bis(2-Ethylhexyl)Phthalate	370	U J
117-84-0	Di-n-Octyl Phthalate	370	U J
205-99-2	Benzo(b)Fluoranthene	370	U
207-08-9	Benzo(k)Fluoranthene	370	U
50-32-8	Benzo(a)Pyrene	370	U
193-39-5	Indeno(1,2,3-cd)Pyrene	370	U J
53-70-3	Dibenz(a,h)Anthracene	370	U J
191-24-2	Benzo(g,h,i)Perylene	370	U

(1) - Cannot be separated from Diphenylamine

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X109DL

b Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582294D

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

% Moisture: 10 decanted: (Y/N) N Date Received: 04/26/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/02/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/12/95

Injection Volume: 1.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 6.4 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	62	~~J~~D
72-55-9	4,4'-DDE	37	U
72-20-8	Endrin	7.6	DJ
33213-65-9	Endosulfan II	37	U
50-29-3	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	1.8	JPD
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	740	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.

X109

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582294

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C0427BK12

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: not dec. 10 Date Analyzed: 04/27/95

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.

X109

Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582294

Sample wt/vol: 30.10 (g/mL) G Lab File ID: B0519E07

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 10 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/20/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 26

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. KETONE	8.48	1000	BAJ
2.	UNKNOWN	8.98	1900	BJ
3.	UNKNOWN	9.08	1200	J
4.	UNKNOWN ALIP. HYDROCARBON	9.53	200	J
5. 123-42-2	2PENTANONE, 4HYDROXY-4METHYL	9.93	15000	JNBAU
6.	UNKNOWN ALIP. HYDROCARBON	10.10	440	BJ
7.	UNKNOWN	10.17	450	BJ
8.	UNKNOWN ALIP. HYDROCARBON	10.27	490	BJ
9.	UNKNOWN ALIP. HYDROCARBON	10.45	350	BJ
10.	UNKNOWN	11.35	160	BJ
11.	UNKNOWN	11.50	960	BJ
12.	UNKNOWN ALIP. KETONE	12.18	670	BAJ
13.	UNKNOWN	12.60	130	J
14.	UNKNOWN	13.17	480	J
15.	UNKNOWN	14.45	1100	J
16.	UNKNOWN ALIP. ACID	23.83	180	BJ
17.	UNKNOWN ALIP. HYDROCARBON	25.17	120	J
18.	UNKNOWN PHTHALATE	27.42	1900	J
19.	UNKNOWN ALIP. ACID	28.30	290	BJ
20.	UNKNOWN	34.05	590	BJ
21.	UNKNOWN ALIP. HYDROCARBON	36.42	330	J
22.	UNKNOWN	36.82	510	J
23.	UNKNOWN	38.63	770	J
24.	UNKNOWN	39.63	1100	J
25.	UNKNOWN	39.75	820	J
26.	UNKNOWN	44.25	590	J

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X109

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582294

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

% Moisture: 10 decanted: (Y/N) N Date Received: 04/26/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/02/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/11/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	0.27	JP
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	0.47	JP
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	68	~~B~~
72-55-9	4,4'-DDE	3.7	U
72-20-8	Endrin	7.4	
33213-65-9	Endosulfan II	3.7	U
50-29-3	4,4'-DDD	3.7	U
1031-07-8	Endosulfan sulfate	3.7	U
50-29-3	4,4'-DDT	3.7	U
72-43-5	Methoxychlor	19	U
53494-70-5	Endrin ketone	3.7	U
7421-36-3	Endrin aldehyde	3.7	U
5103-71-9	alpha-Chlordane	0.48	JP
5103-74-2	gamma-Chlordane	0.89	J
8001-35-2	Toxaphene	190	U
12674-11-2	Aroclor-1016	37	U
11104-28-2	Aroclor-1221	74	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	37	U
11096-82-5	Aroclor-1260	37	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X110

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582295

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C0428BK10

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: not dec. 22 Date Analyzed: 04/28/95

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	13	UJ
74-83-9	Bromomethane	13	UJ
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	29	RU
67-64-1	Acetone	13	UJ
75-15-0	Carbon Disulfide	13	U
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-Dichloroethene (total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-Dichloroethane	13	U
78-93-3	2-Butanone	13	UJ
71-55-6	1,1,1-Trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-Dichloropropane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-Trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
108-88-3	Toluene	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
1330-20-7	Xylene (total)	13	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X110

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582295

Sample wt/vol: 30.10 (g/mL) G Lab File ID: B0519E10

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 22 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/20/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	420	U
111-44-4	bis(2-Chloroethyl)Ether	420	U
95-57-8	2-Chlorophenol	420	U
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
95-50-1	1,2-Dichlorobenzene	420	U
95-48-7	2-Methylphenol	420	U
108-60-1	2,2'-oxybis(1-Chloropropane)	420	U
106-44-5	4-Methylphenol	420	U
621-64-7	N-Nitroso-Di-n-Propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
111-91-1	bis(2-Chloroethoxy)Methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
120-82-1	1,2,4-Trichlorobenzene	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
59-50-7	4-Chloro-3-Methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	1000	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	420	U
208-96-8	Acenaphthylene	420	U
606-20-2	2,6-Dinitrotoluene	420	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	420	U

1C .

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X110

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582295

Sample wt/vol: 30.10 (g/mL) G Lab File ID: B0519E10

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 22 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/20/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
86-73-7	Fluorene	420	U
100-10-6	4-Nitroaniline	1000	U J
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	230	J
120-12-7	Anthracene	420	U
86-74-8	Carbazole	420	U
84-74-2	Di-n-Butylphthalate	460	~~B~~ U
206-44-0	Fluoranthene	520	
129-00-0	Pyrene	380	J
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)Anthracene	250	J
218-01-9	Chrysene	330	J
117-81-7	bis(2-Ethylhexyl)Phthalate	420	U J
117-84-0	Di-n-Octyl Phthalate	420	U J
205-99-2	Benzo(b)Fluoranthene	320	J
207-08-9	Benzo(k)Fluoranthene	310	J
50-32-8	Benzo(a)Pyrene	270	J
193-39-5	Indeno(1,2,3-cd)Pyrene	420	U J
53-70-3	Dibenz(a,h)Anthracene	420	U J
191-24-2	Benzo(g,h,i)Perylene	420	U

(1) - Cannot be separated from Diphenylamine

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X110

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582295

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

% Moisture: 22 decanted: (Y/N) N Date Received: 04/26/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/02/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/11/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

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	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	1.5	JP
76-44-8	Heptachlor	0.43	JP
309-00-2	Aldrin	2.8	
1024-57-3	Heptachlor epoxide	2.7	
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	5.5	~~J~~P
72-55-9	4,4'-DDE	23	P
72-20-8	Endrin	30	
33213-65-9	Endosulfan II	4.2	U
50-29-3	4,4'-DDD	2.5	JP
1031-07-8	Endosulfan sulfate	4.2	U
50-29-3	4,4'-DDT	48	
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.2	U
7421-36-3	Endrin aldehyde	4.2	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	3.5	
8001-35-2	Toxaphene	230	P
12674-11-2	Aroclor-1016	42	U
11104-28-2	Aroclor-1221	85	U
11141-16-5	Aroclor-1232	42	U
53469-21-9	Aroclor-1242	42	U
12672-29-6	Aroclor-1248	42	U
11097-69-1	Aroclor-1254	42	U
11096-82-5	Aroclor-1260	42	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X110

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582295

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C0428BK10

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: not dec. 22 Date Analyzed: 04/28/95

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.

X110

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582295

Sample wt/vol: 30.10 (g/mL) G Lab File ID: B0519E10

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 22 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/20/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 26

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. KETONE	8.47	1100	BAJ
2.	UNKNOWN	8.95	4500	BJ
3. 123-42-2	2PENTANONE, 4HYDROXY-4METHYL	9.80	40000	JNBA
4.	UNKNOWN ALIP. HYDROCARBON	10.07	250	BJ
5.	UNKNOWN	10.13	220	BJ
6.	UNKNOWN ALIP. HYDROCARBON	10.25	290	BJ
7.	UNKNOWN ALIP. HYDROCARBON	10.43	180	BJ
8.	UNKNOWN	11.33	120	BJ
9.	UNKNOWN	11.47	1400	BJ
10.	UNKNOWN ALIP. KETONE	12.17	210	BAJ
11.	UNKNOWN	12.58	440	J
12.	UNKNOWN	13.13	1300	J
13.	UNKNOWN	14.43	820	J
14.	UNKNOWN ALIP. ACID	23.82	160	BJ
15.	UNKNOWN ALIP. HYDROCARBON	25.13	450	J
16.	UNKNOWN PHTHALATE	27.40	1600	J
17.	UNKNOWN PNA	28.30	98	J
18.	UNKNOWN PNA	31.07	250	J
19.	UNKNOWN PNA	32.08	360	J
20.	UNKNOWN PNA	32.42	120	J
21.	UNKNOWN	33.63	160	J
22.	UNKNOWN	34.03	640	BJ
23.	UNKNOWN ALIP. HYDROCARBON	35.15	150	J
24.	UNKNOWN ALIP. HYDROCARBON	36.42	490	J
25.	UNKNOWN ALIP. HYDROCARBON	39.62	2200	J
26.	UNKNOWN	39.73	840	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X201

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582296

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C0427BK14

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: not dec. 32 Date Analyzed: 04/27/95

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	15	U
74-83-9	Bromomethane	15	U
75-01-4	Vinyl Chloride	15	U
75-00-3	Chloroethane	15	U
75-09-2	Methylene Chloride	15 ~~B~~	~~B~~ J U
67-64-1	Acetone	15	U J
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 J
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 J
591-78-6	2-Hexanone	15	U J
127-18-4	Tetrachloroethene	15	U
79-34-5	1,1,2,2-Tetrachloroethane	15	U
108-88-3	Toluene	15	U
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.

X201

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582296

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B0519E09

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 32 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/20/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	480	U
111-44-4	bis(2-Chloroethyl)Ether	480	U
95-57-8	2-Chlorophenol	480	U
541-73-1	1,3-Dichlorobenzene	480	U
106-46-7	1,4-Dichlorobenzene	480	U
95-50-1	1,2-Dichlorobenzene	480	U
95-48-7	2-Methylphenol	480	U
108-60-1	2,2'-oxybis(1-Chloropropane)	480	U
106-44-5	4-Methylphenol	480	U
621-64-7	N-Nitroso-Di-n-Propylamine	480	U
67-72-1	Hexachloroethane	480	U
98-95-3	Nitrobenzene	480	U
78-59-1	Isophorone	480	U
88-75-5	2-Nitrophenol	480	U
105-67-9	2,4-Dimethylphenol	480	U
111-91-1	bis(2-Chloroethoxy)Methane	480	U
120-83-2	2,4-Dichlorophenol	480	U
120-82-1	1,2,4-Trichlorobenzene	480	U
91-20-3	Naphthalene	480	U
106-47-8	4-Chloroaniline	480	U
87-68-3	Hexachlorobutadiene	480	U
59-50-7	4-Chloro-3-Methylphenol	480	U
91-57-6	2-Methylnaphthalene	480	U
77-47-4	Hexachlorocyclopentadiene	480	U
88-06-2	2,4,6-Trichlorophenol	480	U
95-95-4	2,4,5-Trichlorophenol	1200	U
91-58-7	2-Chloronaphthalene	480	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	480	U
208-96-8	Acenaphthylene	480	U
606-20-2	2,6-Dinitrotoluene	480	U
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	480	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X201

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582296

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B0519E09

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 32 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/20/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200	U
100-02-7	4-Nitrophenol	1200	U
132-64-9	Dibenzofuran	480	U
121-14-2	2,4-Dinitrotoluene	480	U
84-66-2	Diethylphthalate	480	U
7005-72-3	4-Chlorophenyl-phenylether	480	U
86-73-7	Fluorene	480	U
100-10-6	4-Nitroaniline	1200	UJ
534-52-1	4,6-Dinitro-2-methylphenol	1200	U
86-30-6	N-Nitrosodiphenylamine (1)	480	U
101-55-3	4-Bromophenyl-phenylether	480	U
118-74-1	Hexachlorobenzene	480	U
87-86-5	Pentachlorophenol	1200	U
85-01-8	Phenanthrene	160	J
120-12-7	Anthracene	480	U
86-74-8	Carbazole	480	U
84-74-2	Di-n-Butylphthalate	720	BU
206-44-0	Fluoranthene	160	J
129-00-0	Pyrene	130	J
85-68-7	Butylbenzylphthalate	480	U
91-94-1	3,3'-Dichlorobenzidine	480	U
56-55-3	Benzo(a)Anthracene	110	J
218-01-9	Chrysene	120	J
117-81-7	bis(2-Ethylhexyl)Phthalate	480	UJ
117-84-0	Di-n-Octyl Phthalate	480	UJ
205-99-2	Benzo(b)Fluoranthene	120	J
207-08-9	Benzo(k)Fluoranthene	480	U
50-32-8	Benzo(a)Pyrene	110	J
193-39-5	Indeno(1,2,3-cd)Pyrene	480	UJ
53-70-3	Dibenz(a,h)Anthracene	480	UJ
191-24-2	Benzo(g,h,i)Perylene	480	U

(1) - Cannot be separated from Diphenylamine

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X201DL

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: 582296DD

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

% Moisture: 32 decanted: (Y/N) N Date Received: 04/26/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/02/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/15/95

Injection Volume: 1.00 (uL) Dilution Factor: 100

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	250	U
319-85-7	beta-BHC	250	U
319-86-8	delta-BHC	250	U
58-89-9	gamma-BHC (Lindane)	250	U
76-44-8	Heptachlor	250	U
309-00-2	Aldrin	250	U
1024-57-3	Heptachlor epoxide	250	U
959-98-8	Endosulfan I	250	U
60-57-1	Dieldrin	720	~~B~~DC
72-55-9	4,4'-DDE	480	U
72-20-8	Endrin	54	DJ
33213-65-9	Endosulfan II	480	U
50-29-3	4,4'-DDD	480	U
1031-07-8	Endosulfan sulfate	480	U
50-29-3	4,4'-DDT	480	U
72-43-5	Methoxychlor	2500	U
53494-70-5	Endrin ketone	480	U
7421-36-3	Endrin aldehyde	480	U
5103-71-9	alpha-Chlordane	250	U
5103-74-2	gamma-Chlordane	250	U
8001-35-2	Toxaphene	25000	U
12674-11-2	Aroclor-1016	4800	U
11104-28-2	Aroclor-1221	9800	U
11141-16-5	Aroclor-1232	4800	U
53469-21-9	Aroclor-1242	4800	U
12672-29-6	Aroclor-1248	4800	U
11097-69-1	Aroclor-1254	4800	U
11096-82-5	Aroclor-1260	4800	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X201

ɔ Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582296

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B0519E09

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 32 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/20/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. KETONE	8.48	1800	BAJ
2.	UNKNOWN	8.98	7800	BJ
3. 123-42-2	2PENTANONE, 4HYDROXY-4METHYL	9.87	40000	JNBA
4.	UNKNOWN ALIP. HYDROCARBON	10.07	420	BJ
5.	UNKNOWN	10.13	330	BJ
6.	UNKNOWN ALIP. HYDROCARBON	10.25	430	BJ
7.	UNKNOWN ALIP. HYDROCARBON	10.45	250	BJ
8.	UNKNOWN	11.33	200	BJ
9.	UNKNOWN	11.48	2400	BJ
10.	UNKNOWN BROMO HEXANE	11.80	1000	J
11.	UNKNOWN ALIP. KETONE	12.15	590	BAJ
12.	UNKNOWN	12.58	400	J
13.	UNKNOWN	13.13	2100	J
14.	UNKNOWN	13.88	180	J
15.	UNKNOWN	14.43	550	J
16. 120-80-9	1,2-BENZENEDIOL	17.23	210	JN
17.	UNKNOWN ALIP. ALCOHOL	18.58	2100	J
18.	UNKNOWN ALIP. HYDROCARBON	22.22	210	J
19.	UNKNOWN ALIP. HYDROCARBON	23.67	210	J
20.	UNKNOWN ALIP. ACID	23.80	220	BJ
21.	UNKNOWN ALIP. HYDROCARBON	25.13	860	J
22.	UNKNOWN ALIP. HYDROCARBON	26.35	190	J
23.	UNKNOWN ALIP. HYDROCARBON	26.50	200	J
24.	UNKNOWN ALIP. ACID	28.30	390	BJ
25. 60-57-1	DIELDRIN	31.75	390	JN
26.	UNKNOWN ALIP. HYDROCARBON	32.05	180	J
27.	UNKNOWN	33.05	180	J
28.	UNKNOWN	34.03	810	BJ
29.	UNKNOWN	36.42	320	J
30.	UNKNOWN ALIP. HYDROCARBON	39.62	1000	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X201

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582296

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C0427BK14

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: not dec. 32 Date Analyzed: 04/27/95

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

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X201

b Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582296D

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

% Moisture: 32 decanted: (Y/N) N Date Received: 04/26/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/02/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/12/95

Injection Volume: 1.00 (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	25	U
319-85-7	beta-BHC	25	U
319-86-8	delta-BHC	25	U
58-89-9	gamma-BHC (Lindane)	2.2	JP
76-44-8	Heptachlor	25	U
309-00-2	Aldrin	17	J
1024-57-3	Heptachlor epoxide	25	U
959-98-8	Endosulfan I	25	U
60-57-1	Dieldrin	880	~~J~~ C
72-55-9	4,4'-DDE	48	U
72-20-8	Endrin	32	JP
33213-65-9	Endosulfan II	48	U
50-29-3	4,4'-DDD	6.4	JP
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	480	U
12672-29-6	Aroclor-1248	480	U
11097-69-1	Aroclor-1254	130	JP
11096-82-5	Aroclor-1260	480	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X202

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582297

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C0427BK15

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: not dec. 53 Date Analyzed: 04/27/95

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	21	U
74-83-9	Bromomethane	21	U
75-01-4	Vinyl Chloride	21	U
75-00-3	Chloroethane	21	U
75-09-2	Methylene Chloride	21 ~~10~~	~~B~~JU
67-64-1	Acetone	21	UJ
75-15-0	Carbon Disulfide	21	U
75-35-4	1,1-Dichloroethene	21	U
75-34-3	1,1-Dichloroethane	21	U
540-59-0	1,2-Dichloroethene (total)	21	U
67-66-3	Chloroform	21	U
107-06-2	1,2-Dichloroethane	21	U
78-93-3	2-Butanone	21	UJ
71-55-6	1,1,1-Trichloroethane	21	U
56-23-5	Carbon Tetrachloride	21	U
75-27-4	Bromodichloromethane	21	U
78-87-5	1,2-Dichloropropane	21	U
10061-01-5	cis-1,3-Dichloropropene	21	U
79-01-6	Trichloroethene	21	U
124-48-1	Dibromochloromethane	21	U
79-00-5	1,1,2-Trichloroethane	21	U
71-43-2	Benzene	21	U
10061-02-6	trans-1,3-Dichloropropene	21	U
75-25-2	Bromoform	21	U
108-10-1	4-Methyl-2-Pentanone	21	UJ
591-78-6	2-Hexanone	21	UJ
127-18-4	Tetrachloroethene	21	UJ
79-34-5	1,1,2,2-Tetrachloroethane	21	UJ
108-88-3	Toluene	21	UJ
108-90-7	Chlorobenzene	21	UJ
100-41-4	Ethylbenzene	21	UJ
100-42-5	Styrene	21	UJ
1330-20-7	Xylene (total)	21	UJ

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X202

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582297

Sample wt/vol: 30.10 (g/mL) G Lab File ID: B0520E09

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 53 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/21/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	700	U
111-44-4	bis(2-Chloroethyl)Ether	700	U
95-57-8	2-Chlorophenol	700	U
541-73-1	1,3-Dichlorobenzene	700	U
106-46-7	1,4-Dichlorobenzene	700	U
95-50-1	1,2-Dichlorobenzene	700	U
95-48-7	2-Methylphenol	700	U
108-60-1	2,2'-oxybis(1-Chloropropane)	700	U
106-44-5	4-Methylphenol	700	U
621-64-7	N-Nitroso-Di-n-Propylamine	700	U
67-72-1	Hexachloroethane	700	U
98-95-3	Nitrobenzene	700	U
78-59-1	Isophorone	700	U
88-75-5	2-Nitrophenol	700	U
105-67-9	2,4-Dimethylphenol	700	U
111-91-1	bis(2-Chloroethoxy)Methane	700	U
120-83-2	2,4-Dichlorophenol	700	U
120-82-1	1,2,4-Trichlorobenzene	700	U
91-20-3	Naphthalene	700	U
106-47-8	4-Chloroaniline	700	U
87-68-3	Hexachlorobutadiene	700	U J
59-50-7	4-Chloro-3-Methylphenol	700	U
91-57-6	2-Methylnaphthalene	700	U
77-47-4	Hexachlorocyclopentadiene	700	U
88-06-2	2,4,6-Trichlorophenol	700	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	700	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	700	U
208-96-8	Acenaphthylene	700	U
606-20-2	2,6-Dinitrotoluene	700	U
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	700	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X202

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582297

Sample wt/vol: 30.10 (g/mL) G Lab File ID: B0520E09

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 53 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/21/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1700	U J
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	700	U
121-14-2	2,4-Dinitrotoluene	700	U
84-66-2	Diethylphthalate	270	J
7005-72-3	4-Chlorophenyl-phenylether	700	U
86-73-7	Fluorene	700	U
100-10-6	4-Nitroaniline	1700	UR
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	700	U J
101-55-3	4-Bromophenyl-phenylether	700	U
118-74-1	Hexachlorobenzene	700	UJ
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	890	
120-12-7	Anthracene	700	U
86-74-8	Carbazole	700	U
84-74-2	Di-n-Butylphthalate	810	BU
206-44-0	Fluoranthene	1600	
129-00-0	Pyrene	1200	
85-68-7	Butylbenzylphthalate	700	U
91-94-1	3,3'-Dichlorobenzidine	700	U
56-55-3	Benzo(a)Anthracene	1100	
218-01-9	Chrysene	1100	
117-81-7	bis(2-Ethylhexyl)Phthalate	700	U
117-84-0	Di-n-Octyl Phthalate	700	U J
205-99-2	Benzo(b)Fluoranthene	700	U
207-08-9	Benzo(k)Fluoranthene	700	UJ
50-32-8	Benzo(a)Pyrene	700	U
193-39-5	Indeno(1,2,3-cd)Pyrene	700	U
53-70-3	Dibenz(a,h)Anthracene	700	UJ
191-24-2	Benzo(g,h,i)Perylene	700	U

(1) - Cannot be separated from Diphenylamine

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X202DL

ab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: 82297DDD

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

% Moisture: 53 decanted: (Y/N) N Date Received: 04/26/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/02/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/12/95

Injection Volume: 1.00 (uL) Dilution Factor: 1000

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	3600	U
319-85-7	beta-BHC	3600	U
319-86-8	delta-BHC	3600	U
58-89-9	gamma-BHC (Lindane)	3600	U
76-44-8	Heptachlor	3600	U
309-00-2	Aldrin	38000	DC
1024-57-3	Heptachlor epoxide	3600	U
959-98-8	Endosulfan I	3600	U
60-57-1	Dieldrin	49000	~~B~~DC
72-55-9	4,4'-DDE	6900	U
72-20-8	Endrin	690000 ~~950~~	~~DJ~~ U
33213-65-9	Endosulfan II	6900	U
50-29-3	4,4'-DDD	6900	U
1031-07-8	Endosulfan sulfate	6900	U
50-29-3	4,4'-DDT	6900	U
72-43-5	Methoxychlor	36000	U
53494-70-5	Endrin ketone	6900	U
7421-36-3	Endrin aldehyde	6900	U
5103-71-9	alpha-Chlordane	3600	U
5103-74-2	gamma-Chlordane	3600	U
8001-35-2	Toxaphene	360000	U
12674-11-2	Aroclor-1016	69000	U
11104-28-2	Aroclor-1221	140000	U
11141-16-5	Aroclor-1232	69000	U
53469-21-9	Aroclor-1242	69000	U
12672-29-6	Aroclor-1248	69000	U
11097-69-1	Aroclor-1254	69000	U
11096-82-5	Aroclor-1260	69000	U

06/05 CA

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X202

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582297

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C0427BK15

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: not dec. 53 Date Analyzed: 04/27/95

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.

X202

ab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582297

Sample wt/vol: 30.10 (g/mL) G Lab File ID: B0520E09

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 53 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/21/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 17

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 309-00-2	ALDRIN	29.37	35000	JN
2. 60-57-1	DIELDRIN	31.82	24000	JN
3.	UNKNOWN	32.12	550	J
4.	UNKNOWN	32.17	1300	J
5.	UNKNOWN	32.27	290	J
6.	UNKNOWN	32.33	1000	J
7.	UNKNOWN	32.50	770	J
8.	UNKNOWN	32.57	370	J
9.	UNKNOWN	32.77	380	J
10.	UNKNOWN	32.85	510	J
11.	UNKNOWN	32.95	780	J
12.	UNKNOWN	33.10	920	J
13.	UNKNOWN	33.17	190	J
14.	UNKNOWN	33.28	670	J
15.	UNKNOWN	33.38	290	J
16.	UNKNOWN	33.42	1600	J
17.	UNKNOWN	33.67	2400	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X202

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: 582297DD

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

% Moisture: 53 decanted: (Y/N) N Date Received: 04/26/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/02/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/12/95

Injection Volume: 1.00 (uL) Dilution Factor: 100

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	360	U
319-85-7	beta-BHC	78	JP
319-86-8	delta-BHC	360	U
58-89-9	gamma-BHC (Lindane)	360	U
76-44-8	Heptachlor	360	U
309-00-2	Aldrin	42000	C
1024-57-3	Heptachlor epoxide	360	U
959-98-8	Endosulfan I	360	U
60-57-1	Dieldrin	48000	~~B~~C
72-55-9	4,4'-DDE	690	U
72-20-8	Endrin	690000 ~~970~~	U
33213-65-9	Endosulfan II	690	U
50-29-3	4,4'-DDD	690	U
1031-07-8	Endosulfan sulfate	690	U
50-29-3	4,4'-DDT	49	JP
72-43-5	Methoxychlor	72	JP
53494-70-5	Endrin ketone	480	J
7421-36-3	Endrin aldehyde	690	U
5103-71-9	alpha-Chlordane	360	U
5103-74-2	gamma-Chlordane	360	U
8001-35-2	Toxaphene	36000	U
12674-11-2	Aroclor-1016	6900	U
11104-28-2	Aroclor-1221	14000	U
11141-16-5	Aroclor-1232	6900	U
53469-21-9	Aroclor-1242	6900	U
12672-29-6	Aroclor-1248	6900	U
11097-69-1	Aroclor-1254	6900	U
11096-82-5	Aroclor-1260	6900	U

0 <195 AB

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X203

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582298

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C0428BK04

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: not dec. 36 Date Analyzed: 04/28/95

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	16	U J
74-83-9	Bromomethane	16	U J
75-01-4	Vinyl Chloride	16	U
75-00-3	Chloroethane	16	U
75-09-2	Methylene Chloride	16 ~~8~~	~~B~~ J U
67-64-1	Acetone	16 ~~10~~	~~B~~ J U
75-15-0	Carbon Disulfide	16	U
75-35-4	1,1-Dichloroethene	16	U
75-34-3	1,1-Dichloroethane	16	U
540-59-0	1,2-Dichloroethene (total)	16	U
67-66-3	Chloroform	16	U
107-06-2	1,2-Dichloroethane	16	U
78-93-3	2-Butanone	16	U J
71-55-6	1,1,1-Trichloroethane	16	U
56-23-5	Carbon Tetrachloride	16	U
75-27-4	Bromodichloromethane	16	U
78-87-5	1,2-Dichloropropane	16	U
10061-01-5	cis-1,3-Dichloropropene	16	U
79-01-6	Trichloroethene	16	U
124-48-1	Dibromochloromethane	16	U
79-00-5	1,1,2-Trichloroethane	16	U
71-43-2	Benzene	16	U
10061-02-6	trans-1,3-Dichloropropene	16	U
75-25-2	Bromoform	16	U
108-10-1	4-Methyl-2-Pentanone	16	U
591-78-6	2-Hexanone	16	U
127-18-4	Tetrachloroethene	16	U
79-34-5	1,1,2,2-Tetrachloroethane	16	U
108-88-3	Toluene	16	U
108-90-7	Chlorobenzene	16	U
100-41-4	Ethylbenzene	16	U
100-42-5	Styrene	16	U
1330-20-7	Xylene (total)	16	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X203

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582298

Sample wt/vol: 30.10 (g/mL) G Lab File ID: B0520E05

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 36 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/20/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	510	U
111-44-4	bis(2-Chloroethyl)Ether	510	U
95-57-8	2-Chlorophenol	510	U
541-73-1	1,3-Dichlorobenzene	510	U
106-46-7	1,4-Dichlorobenzene	510	U
95-50-1	1,2-Dichlorobenzene	510	U
95-48-7	2-Methylphenol	510	U
108-60-1	2,2'-oxybis(1-Chloropropane)	510	U
106-44-5	4-Methylphenol	510	U
621-64-7	N-Nitroso-Di-n-Propylamine	510	U
67-72-1	Hexachloroethane	510	U
98-95-3	Nitrobenzene	510	U
78-59-1	Isophorone	510	U
88-75-5	2-Nitrophenol	510	U
105-67-9	2,4-Dimethylphenol	510	U
111-91-1	bis(2-Chloroethoxy)Methane	510	U
120-83-2	2,4-Dichlorophenol	510	U
120-82-1	1,2,4-Trichlorobenzene	510	U
91-20-3	Naphthalene	510	U
106-47-8	4-Chloroaniline	510	U
87-68-3	Hexachlorobutadiene	510	U J
59-50-7	4-Chloro-3-Methylphenol	510	U
91-57-6	2-Methylnaphthalene	510	U
77-47-4	Hexachlorocyclopentadiene	510	U
88-06-2	2,4,6-Trichlorophenol	510	U
95-95-4	2,4,5-Trichlorophenol	1200	U
91-58-7	2-Chloronaphthalene	510	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	510	U
208-96-8	Acenaphthylene	510	U
606-20-2	2,6-Dinitrotoluene	510	U
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	510	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X203

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582298

Sample wt/vol: 30.10 (g/mL) G Lab File ID: B0520E05

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 36 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/20/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200	UJ
100-02-7	4-Nitrophenol	1200	U
132-64-9	Dibenzofuran	510	U
121-14-2	2,4-Dinitrotoluene	510	U
84-66-2	Diethylphthalate	510	U
7005-72-3	4-Chlorophenyl-phenylether	510	U
86-73-7	Fluorene	510	U
100-10-6	4-Nitroaniline	1200	UR
534-52-1	4,6-Dinitro-2-methylphenol	1200	U
86-30-6	N-Nitrosodiphenylamine (1)	510	UJ
101-55-3	4-Bromophenyl-phenylether	510	U
118-74-1	Hexachlorobenzene	510	UJ
87-86-5	Pentachlorophenol	1200	U
85-01-8	Phenanthrene	560	
120-12-7	Anthracene	120	J
86-74-8	Carbazole	510	U
84-74-2	Di-n-Butylphthalate	790	~~B~~U
206-44-0	Fluoranthene	2100	
129-00-0	Pyrene	2100	
85-68-7	Butylbenzylphthalate	510	U
91-94-1	3,3'-Dichlorobenzidine	510	U
56-55-3	Benzo(a)Anthracene	1700	
218-01-9	Chrysene	1900	
117-81-7	bis(2-Ethylhexyl)Phthalate	510	U
117-84-0	Di-n-Octyl Phthalate	510	UJ
205-99-2	Benzo(b)Fluoranthene	940	
207-08-9	Benzo(k)Fluoranthene	920	J
50-32-8	Benzo(a)Pyrene	760	
193-39-5	Indeno(1,2,3-cd)Pyrene	510	U
53-70-3	Dibenz(a,h)Anthracene	510	UJ
191-24-2	Benzo(g,h,i)Perylene	510	U

(1) - Cannot be separated from Diphenylamine

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X203DL

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: 582298DD

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

% Moisture: 36 decanted: (Y/N) N Date Received: 04/26/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/02/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/17/95

Injection Volume: 1.00 (uL) Dilution Factor: 100

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	260	U
319-85-7	beta-BHC	260	U
319-86-8	delta-BHC	260	U
58-89-9	gamma-BHC (Lindane)	260	U
76-44-8	Heptachlor	260	U
309-00-2	Aldrin	150	DJ
1024-57-3	Heptachlor epoxide	260	U
959-98-8	Endosulfan I	260	U
60-57-1	Dieldrin	1900	EDC
72-55-9	4,4'-DDE	510	U
72-20-8	Endrin	67	DJ
33213-65-9	Endosulfan II	510	U
50-29-3	4,4'-DDD	510	U
1031-07-8	Endosulfan sulfate	510	U
50-29-3	4,4'-DDT	17	JPD
72-43-5	Methoxychlor	2600	U
53494-70-5	Endrin ketone	510	U
7421-36-3	Endrin aldehyde	510	U
5103-71-9	alpha-Chlordane	260	U
5103-74-2	gamma-Chlordane	32	DJ
8001-35-2	Toxaphene	26000	U
12674-11-2	Aroclor-1016	5100	U
11104-28-2	Aroclor-1221	10000	U
11141-16-5	Aroclor-1232	5100	U
53469-21-9	Aroclor-1242	5100	U
12672-29-6	Aroclor-1248	5100	U
11097-69-1	Aroclor-1254	5100	U
11096-82-5	Aroclor-1260	5100	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X203

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582298

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C0428BK04

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: not dec. 36 Date Analyzed: 04/28/95

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: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582298

Sample wt/vol: 30.10 (g/mL) G Lab File ID: B0520E05

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 36 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/20/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 10

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2PENTANONE, 4HYDROXY-4METHYL	9.85	51000	JNBAU
2. 60-57-1	DIELDRIN	31.78	2000	JN
3.	UNKNOWN	33.10	420	J
4.	UNKNOWN	33.45	1100	J
5.	UNKNOWN	33.55	480	J
6.	UNKNOWN	33.63	330	J
7.	UNKNOWN	33.73	260	J
8.	UNKNOWN	33.78	220	J
9.	UNKNOWN	34.08	2200	BJ
10.	UNKNOWN	34.30	240	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X203

ab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582298D

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

% Moisture: 36 decanted: (Y/N) N Date Received: 04/26/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/02/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/17/95

Injection Volume: 1.00 (uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	26	U
319-85-7	beta-BHC	26	U
319-86-8	delta-BHC	26	U
58-89-9	gamma-BHC (Lindane)	26	U
76-44-8	Heptachlor	1.2	JP
309-00-2	Aldrin	170	
1024-57-3	Heptachlor epoxide	4.7	JP
959-98-8	Endosulfan I	26	U
60-57-1	Dieldrin	2000	~~B~~C
72-55-9	4,4'-DDE	51	U
72-20-8	Endrin	37	JP
33213-65-9	Endosulfan II	7.6	JP
50-29-3	4,4'-DDD	15	J
1031-07-8	Endosulfan sulfate	51	U
50-29-3	4,4'-DDT	10	JP
72-43-5	Methoxychlor	38	JP
53494-70-5	Endrin ketone	3.6	JP
7421-36-3	Endrin aldehyde	51	U
5103-71-9	alpha-Chlordane	20	J
5103-74-2	gamma-Chlordane	26	JP
8001-35-2	Toxaphene	2600	U
12674-11-2	Aroclor-1016	510	U
11104-28-2	Aroclor-1221	1000	U
11141-16-5	Aroclor-1232	510	U
53469-21-9	Aroclor-1242	510	U
12672-29-6	Aroclor-1248	510	U
11097-69-1	Aroclor-1254	91 ~~92~~	JP
11096-82-5	Aroclor-1260	210	JP

MCN 5/24/95

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X204

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582299

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C0428BK05

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: not dec. 34 Date Analyzed: 04/28/95

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	15	UJ
74-83-9	Bromomethane	15	UJ
75-01-4	Vinyl Chloride	15	U
75-00-3	Chloroethane	15	U
75-09-2	Methylene Chloride	15 ~~B~~	BJU
67-64-1	Acetone	15	UJ
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	UJ
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	15	U
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.

X204

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582299

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B0520E07

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 34 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/20/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	500	U
111-44-4	bis(2-Chloroethyl)Ether	500	U
95-57-8	2-Chlorophenol	500	U
541-73-1	1,3-Dichlorobenzene	500	U
106-46-7	1,4-Dichlorobenzene	500	U
95-50-1	1,2-Dichlorobenzene	500	U
95-48-7	2-Methylphenol	500	U
108-60-1	2,2'-oxybis(1-Chloropropane)	500	U
106-44-5	4-Methylphenol	500	U
621-64-7	N-Nitroso-Di-n-Propylamine	500	U
67-72-1	Hexachloroethane	500	U
98-95-3	Nitrobenzene	500	U
78-59-1	Isophorone	500	U
88-75-5	2-Nitrophenol	500	U
105-67-9	2,4-Dimethylphenol	500	U
111-91-1	bis(2-Chloroethoxy)Methane	500	U
120-83-2	2,4-Dichlorophenol	500	U
120-82-1	1,2,4-Trichlorobenzene	500	U
91-20-3	Naphthalene	500	U
106-47-8	4-Chloroaniline	500	U
87-68-3	Hexachlorobutadiene	500	UJ
59-50-7	4-Chloro-3-Methylphenol	500	U
91-57-6	2-Methylnaphthalene	500	U
77-47-4	Hexachlorocyclopentadiene	500	U
88-06-2	2,4,6-Trichlorophenol	500	U
95-95-4	2,4,5-Trichlorophenol	1200	U
91-58-7	2-Chloronaphthalene	500	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	500	U
208-96-8	Acenaphthylene	500	U
606-20-2	2,6-Dinitrotoluene	500	U
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	500	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X204

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582299

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B0520E07

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 34 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/20/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200	UJ
100-02-7	4-Nitrophenol	1200	U
132-64-9	Dibenzofuran	500	U
121-14-2	2,4-Dinitrotoluene	500	U
84-66-2	Diethylphthalate	500	U
7005-72-3	4-Chlorophenyl-phenylether	500	U
86-73-7	Fluorene	500	U
100-10-6	4-Nitroaniline	1200	UR
534-52-1	4,6-Dinitro-2-methylphenol	1200	U
86-30-6	N-Nitrosodiphenylamine (1)	500	UJ
101-55-3	4-Bromophenyl-phenylether	500	U
118-74-1	Hexachlorobenzene	500	UJ
87-86-5	Pentachlorophenol	1200	U
85-01-8	Phenanthrene	780	
120-12-7	Anthracene	160	J
86-74-8	Carbazole	500	U
84-74-2	Di-n-Butylphthalate	580	BU
206-44-0	Fluoranthene	1900	
129-00-0	Pyrene	1500	
85-68-7	Butylbenzylphthalate	500	U
91-94-1	3,3'-Dichlorobenzidine	500	U
56-55-3	Benzo(a)Anthracene	1400	
218-01-9	Chrysene	1400	
117-81-7	bis(2-Ethylhexyl)Phthalate	500	U
117-84-0	Di-n-Octyl Phthalate	500	UJ
205-99-2	Benzo(b)Fluoranthene	750	
207-08-9	Benzo(k)Fluoranthene	860	J
50-32-8	Benzo(a)Pyrene	680	
193-39-5	Indeno(1,2,3-cd)Pyrene	500	U
53-70-3	Dibenz(a,h)Anthracene	500	UJ
191-24-2	Benzo(g,h,i)Perylene	500	U

(1) - Cannot be separated from Diphenylamine

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X204DL

ab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: 582299DD

Sample wt/vol: 30.5 (g/mL) G Lab File ID: _____

% Moisture: 34 decanted: (Y/N) N Date Received: 04/26/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/02/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/17/95

Injection Volume: 1.00 (uL) Dilution Factor: 100

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	250	U
319-85-7	beta-BHC	250	U
319-86-8	delta-BHC	250	U
58-89-9	gamma-BHC (Lindane)	250	U
76-44-8	Heptachlor	250	U
309-00-2	Aldrin	39	DJ
1024-57-3	Heptachlor epoxide	250	U
959-98-8	Endosulfan I	250	U
60-57-1	Dieldrin	1500	~~B~~DC
72-55-9	4,4'-DDE	490	U
72-20-8	Endrin	32	DJ
33213-65-9	Endosulfan II	490	U
50-29-3	4,4'-DDD	490	U
1031-07-8	Endosulfan sulfate	490	U
50-29-3	4,4'-DDT	490	U
72-43-5	Methoxychlor	2500	U
53494-70-5	Endrin ketone	490	U
7421-36-3	Endrin aldehyde	490	U
5103-71-9	alpha-Chlordane	29	DJ
5103-74-2	gamma-Chlordane	33	DJ
8001-35-2	Toxaphene	25000	U
12674-11-2	Aroclor-1016	4900	U
11104-28-2	Aroclor-1221	10000	U
11141-16-5	Aroclor-1232	4900	U
53469-21-9	Aroclor-1242	4900	U
12672-29-6	Aroclor-1248	4900	U
11097-69-1	Aroclor-1254	4900	U
11096-82-5	Aroclor-1260	4900	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X204

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582299

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C0428BK05

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: not dec. 34 Date Analyzed: 04/28/95

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.

X204

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582299

Sample wt/vol: 30.20 (g/mL) G Lab File ID: B0520E07

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 34 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/20/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 14

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2PENTANONE, 4HYDROXY-4METHYL	9.83	51000	JNBA
2.	UNKNOWN	33.10	390	J
3.	UNKNOWN	33.45	720	J
4.	UNKNOWN	33.57	380	J
5.	UNKNOWN	33.63	340	J
6.	UNKNOWN	33.68	320	J
7.	UNKNOWN	33.73	300	J
8.	UNKNOWN	33.77	350	J
9.	UNKNOWN	34.03	450	J
10.	UNKNOWN	34.08	1600	J
11.	UNKNOWN	34.17	170	J
12.	UNKNOWN	34.20	200	J
13.	UNKNOWN	34.32	210	J
14.	UNKNOWN	34.92	250	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X204

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582299D

Sample wt/vol: 30.5 (g/mL) G Lab File ID: _____

% Moisture: 34 decanted: (Y/N) N Date Received: 04/26/95

Extraction: (SepF/Cont/Sonc) SONC. Date Extracted: 05/02/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/17/95

Injection Volume: 1.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 6.8 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	40	
1024-57-3	Heptachlor epoxide	4.2	JP
959-98-8	Endosulfan I	25	U
60-57-1	Dieldrin	1600	~~B~~ C
72-55-9	4,4'-DDE	49	U
72-20-8	Endrin	34	JP
33213-65-9	Endosulfan II	11	JP
50-29-3	4,4'-DDD	10	JP
1031-07-8	Endosulfan sulfate	49	U
50-29-3	4,4'-DDT	10	JP
72-43-5	Methoxychlor	250	U
53494-70-5	Endrin ketone	49	U
7421-36-3	Endrin aldehyde	49	U
5103-71-9	alpha-Chlordane	13	JP
5103-74-2	gamma-Chlordane	27	P
8001-35-2	Toxaphene	2500	U
12674-11-2	Aroclor-1016	490	U
11104-28-2	Aroclor-1221	1000	U
11141-16-5	Aroclor-1232	490	U
53469-21-9	Aroclor-1242	490	U
12672-29-6	Aroclor-1248	490	U
11097-69-1	Aroclor-1254	96	JP
11096-82-5	Aroclor-1260	490	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X205

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582300

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C0428BK06

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: not dec. 21 Date Analyzed: 04/28/95

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	13	UJ
74-83-9	Bromomethane	13	UJ
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	13 5	BJU
67-64-1	Acetone	13	UJ
75-15-0	Carbon Disulfide	13	U
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-Dichloroethene (total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-Dichloroethane	13	U
78-93-3	2-Butanone	13	UJ
71-55-6	1,1,1-Trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-Dichloropropane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-Trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
108-88-3	Toluene	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
1330-20-7	Xylene (total)	13	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X205

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582300

Sample wt/vol: 30.10 (g/mL) G Lab File ID: B0519E05

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 21 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/19/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	420	U
111-44-4	bis(2-Chloroethyl)Ether	420	U
95-57-8	2-Chlorophenol	420	U
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
95-50-1	1,2-Dichlorobenzene	420	U
95-48-7	2-Methylphenol	420	U
108-60-1	2,2'-oxybis(1-Chloropropane)	420	U
106-44-5	4-Methylphenol	420	U
621-64-7	N-Nitroso-Di-n-Propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
111-91-1	bis(2-Chloroethoxy)Methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
120-82-1	1,2,4-Trichlorobenzene	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
59-50-7	4-Chloro-3-Methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	1000	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	420	U
208-96-8	Acenaphthylene	420	U
606-20-2	2,6-Dinitrotoluene	420	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	420	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X205

ab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582300

Sample wt/vol: 30.10 (g/mL) G Lab File ID: B0519E05

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 21 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/19/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
86-73-7	Fluorene	420	U
100-10-6	4-Nitroaniline	1000	UJ
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	420	U
120-12-7	Anthracene	420	U
86-74-8	Carbazole	420	U
84-74-2	Di-n-Butylphthalate	540	~~B~~U
206-44-0	Fluoranthene	420	U
129-00-0	Pyrene	420	U
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)Anthracene	420	U
218-01-9	Chrysene	420	U
117-81-7	bis(2-Ethylhexyl)Phthalate	420	UJ
117-84-0	Di-n-Octyl Phthalate	420	UJ
205-99-2	Benzo(b)Fluoranthene	420	U
207-08-9	Benzo(k)Fluoranthene	420	U
50-32-8	Benzo(a)Pyrene	420	U
193-39-5	Indeno(1,2,3-cd)Pyrene	420	UJ
53-70-3	Dibenz(a,h)Anthracene	420	UJ
191-24-2	Benzo(g,h,i)Perylene	420	U

(1) - Cannot be separated from Diphenylamine

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X205

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582300

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

% Moisture: 22 decanted: (Y/N) N Date Received: 04/26/95

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/02/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/12/95

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	0.33	JP
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	2.2	~~E~~JP
72-55-9	4,4'-DDE	4.2	U
72-20-8	Endrin	4.2	U
33213-65-9	Endosulfan II	4.2	U
50-29-3	4,4'-DDD	0.83	J
1031-07-8	Endosulfan sulfate	4.2	U
50-29-3	4,4'-DDT	0.41	JP
72-43-5	Methoxychlor	0.84	JP
53494-70-5	Endrin ketone	4.2	U
7421-36-3	Endrin aldehyde	4.2	U
5103-71-9	alpha-Chlordane	0.29	JP
5103-74-2	gamma-Chlordane	0.57	J
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	42	U
11104-28-2	Aroclor-1221	85	U
11141-16-5	Aroclor-1232	42	U
53469-21-9	Aroclor-1242	42	U
12672-29-6	Aroclor-1248	42	U
11097-69-1	Aroclor-1254	4.8	J
11096-82-5	Aroclor-1260	4.5	JP

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X205

ab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582300

Sample wt/vol: 30.10 (g/mL) G Lab File ID: B0519E05

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: 21 decanted: (Y/N) N Date Extracted: 05/01/95

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/19/95

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3

Number TICs found: 23

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. KETONE	8.47	1400	BAJ
2.	UNKNOWN	8.97	6200	BJ
3. 123-42-2	2PENTANONE, 4HYDROXY-4METHYL	9.85	37000	JNBAU
4.	UNKNOWN ALIP. HYDROCARBON	10.07	310	BJ
5.	UNKNOWN	10.13	330	BJ
6.	UNKNOWN ALIP. HYDROCARBON	10.25	320	BJ
7.	UNKNOWN ALIP. HYDROCARBON	10.45	200	BJ
8.	UNKNOWN	11.33	170	BJ
9.	UNKNOWN	11.48	2000	BJ
10.	UNKNOWN ALIP. KETONE	12.15	410	BAJ
11.	UNKNOWN	12.38	150	J
12.	UNKNOWN	12.58	440	J
13.	UNKNOWN	13.13	1900	J
14.	UNKNOWN	14.43	780	J
15.	UNKNOWN ALIP. ACID	23.82	160	BJ
16.	UNKNOWN ALIP. ACID	28.30	400	BJ
17.	UNKNOWN ALIP. HYDROCARBON	33.05	130	J
18.	UNKNOWN	34.03	710	BJ
19.	UNKNOWN ALIP. HYDROCARBON	36.40	600	J
20.	UNKNOWN	38.63	370	J
21.	UNKNOWN ALIP. HYDROCARBON	39.62	2300	J
22.	UNKNOWN	39.75	490	J
23.	UNKNOWN ALIP. HYDROCARBON	44.22	1200	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X205

Lab Name: ILLINOIS EPA Contract: 1230000000

Lab Code: SPFLD Case No.: GRIEDE SAS No.: _____ SDG No.: 582286

Matrix: (soil/water) SOIL Lab Sample ID: D582300

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C0428BK06

Level: (low/med) LOW Date Received: 04/26/95

% Moisture: not dec. 21 Date Analyzed: 04/28/95

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