IL1350450001/Montgomery County
Hedlund Manufacturing
ILD 984775452
Volume 2 of 2

CERCLA

Screening Site Inspection Analytical Results

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

11-20-96

EPA Region 5 Records Ctr.
328158

Confidential Material May be Enclosed

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APPENDIX G

ANALYTICAL RESULTS
VOLUME 2 OF 2

HEDLUND MANUFACTURING
ILD 984775452

SAMPLE SUMMARY

SAMPLING POINT	G201		G202		G203		G204
	4-14-92		4-14-92		4-14-92		4-14-92
PARAMETER							
VOLATILES (ppb)							
Acetone	--		180		--		--
1,2-Dichloroethene(total)	4	J	3	J	47		--
Trichloroethene	7	J	5	J	8	J	--
Tetrachloroethene	36		22		--		--
Toluene	--		--		--		--
Ethylbenzene	--		--		--		--
Styrene	--		--		--		--
Xylene(total)	--		--		--		--
TIC's							
SEMIVOLATILES (ppb)							
Naphthalene	--		--		--		--
2-Methylnaphthalene	--		--		--		--
Acenaphthylene	--		--		--		--
Acenaphthene	--		--		--		--
Dibenzofuran	--		--		--		--
Fluorene	--		--		--		--
Phenanthrene	--		--		--		--
Anthracene	--		--		--		--
Di-n-Butylphthalate	--		--		--		--
Fluoranthene	--		--		--		--
Pyrene	--		--		--		--
Benzo(a)anthracene	--		--		--		--
Chrysene	--		--		--		--
bis(2-Ethylhexyl)phthalate	--		--		--		--
Di-n-Octylphthalate	--		--		--		--
Benzo(b)fluoranthene	--		--		--		--
Benzo(k)fluoranthene	--		--		--		--
Benzo(a)pyrene	--		--		--		--
Indeno(1,2,3-cd)pyrene	--		--		--		--
Dibenz(a,h)anthracene	--		--		--		--
Benzo(g,h,i)perylene	--		--		--		--
TIC's			(2)		(1)		

HEDLUND MANUFACTURING
ILD 984775452

SAMPLE SUMMARY

SAMPLING POINT	G201		G202		G203		G204	
	4-14-92		4-14-92		4-14-92		4-14-92	
PARAMETER								
PESTICIDES/PCB'S (ppb)								
Heptachlor	--		--		--		--	
Aldrin	--		--		--		--	
Heptachlor epoxide	--		--		--		--	
Dieldrin	--		--		--		--	
Endrin	--		--		--		--	
Endosulfan II	--		--		--		--	
4,4'-DDD	--		--		--		--	
4,4'-DDT	--		--		--		--	
Methoxychlor (Mariate)	--		--		--		--	
alpha-Chlorodane	--		--		--		--	
gamma-Chlorodane	--		--		--		--	
Aroclor-1254	--		--		--		--	
Aroclor-1260	--		--		--		--	
INORGANICS (soil ppm, water ppb)								
Aluminum	--		--		--		--	
Antimony	--		--		--		--	
Arsenic	--		--		--		--	
Barium	145	BJ	151	BJ	297	J	142	BJ
Beryllium	--		--		--		--	
Cadmium	--		--		--		--	
Calcium	105000		107000		143000		204000	
Chromium	--		--		--		--	
Cobalt	--		--		--		--	
Copper	--		--		7.9	B	--	
Iron	3520		3570		5040		2400	
Lead	--		--		--		--	
Magnesium	34600		35300		42300		49100	
Manganese	484		475		750		1680	
Mercury	--		--		--		--	
Nickel	--		--		--		--	
Potassium	1350	B	695	B	6040		178000	
Selenium	--		--		--		--	
Silver	--		--		--		--	
Sodium	75600		78600		68200		74600	
Thallium	--		--		--		--	
Vanadium	--		--		--		--	
Zinc	--		--		--		--	
Cyanide	--		--		--		--	
Sulfate	159000		174000		193000		211000	
FIELD TESTS								
Temperature (degrees F)	52.7		52.4		52.1		54.3	
Sp. Conductivity (umhos)	1050		695		1186		1969	
Ph	4.86		5.5		5.15		5.59	

HEDLUND MANUFACTURING
ILD 984775452

SAMPLING POINT	X101		X102	X103		X104		X105		X106	X107		X108		X109		X110	
	4-14-92		4-14-92	4-14-92		4-14-92		4-14-92		4-14-92	4-14-92		4-14-92		4-14-92		4-14-92	
PARAMETER																		
VOLATILES (ppb)																		
Acetone	--		--	--		--		--		--	--		--		--		--	
1,2-Dichloroethene(total)	--		--	--		--		--		--	--		--		--		--	
Trichloroethene	--		--	--		--		--		--	--		--		--		--	
Tetrachloroethene	--		--	--		--		--		--	--		--		--		--	
Toluene	--		--	13	DJ	--		--		--	--		--		--		--	
Ethylbenzene	--		--	40	D	--		--		--	--		--		--		--	
Styrene	--		--	8	DJ	--		--		--	--		--		--		--	
Xylene(total)	--		--	910	D	--		--		--	--		--		--		--	
TIC's	(1)			(4)													(1)	
SEMIVOLATILES (ppb)																		
Naphthalene	810	J	--	1100	J	--		500	J	--	--		350	J	--		78	J
2-Methylnaphthalene	930	J	--	--		--		1000	J	--	--		700		--		240	J
Acenaphthylene	1100	J	--	--		--		--		--	--		260	J	--		--	
Acenaphthene	2200	J	--	--		--		--		--	--		--		--		--	
Dibenzofuran	2700	J	--	--		--		--		--	--		210	J	--		--	
Fluorene	4600		--	--		--		--		--	--		130	J	--		--	
Phenanthrene	14000		--	750	J	87	J	4100		--	--		1200		230	J	360	J
Anthracene	8600		--	--		--		720	J	--	--		420	J	--		--	
Di-n-Butylphthalate	--		--	--		--		--		--	--		1700		--		46	J
Fluoranthene	13000		--	1500	J	110	J	7500		--	99	J	1200		610	J	93	J
Pyrene	14000		--	1000	J	86	J	5500		--	110	J	1400		380	J	270	J
Benzo(a)anthracene	16000		--	790	J	--		2900		--	--		1200		240	J	91	J
Chrysene	15000		--	--		--		2900		--	--		1600		400	J	200	J
bis(2-Ethylhexyl)phthalate	1700	J	1000	15000		--		2100		--	--		2000		4000		--	
Di-n-Octylphthalate	--		--	--		120	J	--		--	--		130	J	--		--	
Benzo(b)fluoranthene	13000		--	1000	J	--		2800		--	100	J	2300		430	J	--	
Benzo(k)fluoranthene	8400		--	750	J	--		2900		--	--		1600		320	J	--	
Benzo(a)pyrene	14000		--	870	J	--		3400		--	--		1600		340	J	--	
Indeno(1,2,3-cd)pyrene	9700		--	1100	J	--		2800		--	--		1200		470	J	--	
Dibenz(a,h)anthracene	--		--	--		--		--		--	--		380	J	--		--	
Benzo(g,h,i)perylene	11000		--	1400	J	170	J	3200		--	--		1300		750	J	--	
TIC's	(26)		(25)	(21)		(4)		(26)		(10)	(7)		(27)		(17)		(19)	

HEDLUND MANUFACTURING
ILD 984775452

SAMPLING POINT	X101	X102	X103	X104	X105	X106	X107	X108	X109	X110
	4-14-92	4-14-92	4-14-92	4-14-92	4-14-92	4-14-92	4-14-92	4-14-92	4-14-92	4-14-92
PARAMETER										
PESTICIDES/PCB'S (ppb)										
Heptachlor	9.1JPD	--	--	--	--	--	--	--	--	--
Aldrin	9.5JPD	--	--	--	--	--	--	--	--	--
Heptachlor epoxide	--	--	10 JD	--	--	--	--	30 PD	15 JD	9.3JPD
Dieldrin	21 JPD	--	--	--	11 JPD	--	--	--	19 JD	10 JPD
Endrin	12 JPD	--	--	--	22 JD	--	--	30 JPD	--	--
Endosulfan II	34 JPD	--	12 JPD	--	19 JPD	--	--	16 JPD	--	23 JPD
4,4'-DDD	--	--	--	--	17 JPD	--	--	22 JPD	--	--
4,4'-DDT	16 JPD	--	13 JPD	--	31 JPD	--	--	34 JPD	22 JPD	41 JPD
Methoxychlor (Mariate)	31 JPD	--	--	--	69 JD	--	--	--	--	--
alpha-Chlorodane	--	--	--	--	--	--	--	--	17 JPD	--
gamma-Chlorodane	--	--	--	--	--	--	--	--	13 JPD	--
Aroclor-1254	250 JPD	--	--	--	--	--	--	970 D	--	--
Aroclor-1260	--	--	--	--	170 JPD	--	--	250 JPD	190 JPD	--
INORGANICS (soil ppm, water ppb)										
Aluminum	12800	22200	17300	18100	19900	25100	21500	12400	24700	15000
Antimony	--	--	--	--	--	--	--	15.3 J	--	--
Arsenic	9.1 J	5.8 J	5.1 J	1.8 J	12.7 J	4.6 J	5.5	12.2 J	10.2 J	3.6 J
Barium	1250	222	209	125	526	195	191	767	237	172
Beryllium	1.4	1.01	0.97	0.83	1.53	0.95	0.96	1.12	1.0	0.70
Cadmium	0.83	--	--	--	7.14	--	--	3.99	1.1	--
Calcium	23100 J	4610 J	6050 J	3380 J	16900 J	50100 J	5050 J	5660 J	40800 J	6280 J
Chromium	94.7 J	26.9 J	24.7 J	22.7 J	98.3 J	67 J	26.5 J	248 J	79.6 J	21.4 J
Cobalt	6.0 B	7.9	14.1	2.4 B	15.8	8.04	10.5	7.3 B	7.16	4.5 B
Copper	48.5	21.0	23.0	17.0 B	150	31.2	18.2	189	60.9	14.5
Iron	36100	21300	15800	10400	53000	20400	18200	53800	25100	14800
Lead	519	12.4	37.7	11.8	830	41.4	25.6	1027	216	31.2
Magnesium	2870	2380	2370	2010	3420	6430	2480	1650	4210	1910
Manganese	455	351	383	23.3	263	275	561	177	381	268
Mercury	0.54	0.05B	0.96	0.14	162.5	0.04 B	0.05B	6.07	0.24	0.06B
Nickel	16.9	16.8	17.3	18.3	39.8	26.1	18.5	29.3	33.8	13.5
Potassium	1760	1760	2240	301 B	2630	4620	1430	1590	3080	1590
Selenium	1.1 J	--	0.82J	--	2.86J	--	0.19BJ	4.8 J	0.82J	--
Silver	1.4	1.0 B	1.1 B	--	2.9	--	1.4	3.1	0.91B	--
Sodium	1080	--	--	559 B	514 B	370 B	302 B	1814	474 B	194 B
Thallium	0.45BJ	--	0.37J	--	0.64BJ	--	--	--	0.46BJ	--
Vanadium	51.8 J	29.9 J	37.0 J	21.4 J	47.2 J	46.8	30.0 J	34.5 J	49.1 J	32.0 J
Zinc	610	65.2	250	38.9	1490	146	70.6	810	602	71.3
Cyanide	--	--	--	--	--	--	--	3.1	--	--
Sulfate	--	--	--	--	--	--	--	--	--	--

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

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

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

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

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

MEMORANDUM

DATE: August 6, 1992

TO: Tim Murphy

FROM: Ron Turpin & Jim Shaw

SUBJECT: Review of Data Package
Hedlund Manufacturing

The Division of Laboratories Quality Assurance Section has reviewed the above referenced data package. The package was for 10 soil samples, 4 water sample and 1 trip blank taken on April 15, 1992. The samples were analyzed at the IEPA laboratories in Springfield (organics) and in Champaign (inorganics).

I have attached summary forms for the Volatile Organics Analyses (VOAs), the Semi-Volatile Analyses (SVs) and the Pesticide/PCB analyses (P/Ps) in soil and water samples. The results on the summary forms have been modified as required by USEPA data validation guidelines. The results on the summary forms are valid as qualified by the associated data qualifiers. The Inorganics Analysis data has been validated and the attached sample analysis data sheets have been modified as required by the data validation process and the USEPA data validation guidelines. The data is valid as qualified on the attached modified sample analysis data sheets.

attachments

cc: John Hurley
Karl Reed

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IEPA - CLP
CHAIN OF CUSTODY

D215808

Seal # 7355

Date Sealed: 4/13/92 By: Rich

Facility
Name : HEDLUND MANUFACTURING
Region: CENTRAL
County: MONTGOMERY

Site Inventory # : 1350450001
Site Billing Code: SA06660
Project Manager : TIM MURPHY

Laboratory #	Sample I.D.	Sample Date	Sample Time
D215808	G201	4-14-92	8:00 A

Sample Appearance :

Collector Comments:

Sampler Signature : Greg Spencer Division/Company IEPA/DLPC

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	1	40ml		VOA	N		
2	3	80oz		BNA	N		
2	4	80oz		PESTICIDE/PCB	N		

Rec'd July 14 1992

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): T. Murphy Signature: Timothy J. Murphy QAS

Date: 4-14-92 Time: 7:35A Seal #: 7355 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): T. Murphy Signature: Timothy J. Murphy

Date: 4-14-92 Time: 8:20 Seal # 7356

Courier - Sample Pickup: Self

Courier - Sample Delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Anju Patel Signature: Anju Patel

Date: 4/14/92 Time: 6:30pm Seal #: 0007356 Intact?: (Y) / N

Lab Name: Springfield, IEPA Comments:

D215808

IEPA - CLP
CHAIN OF CUSTODY

Seal # 7357

Date Sealed: 4/13/92 By: RKM

Facility
Name : HEDLUND MANUFACTURING
Region: CENTRAL
County: MONTGOMERY

Site Inventory # : 1350450001
Site Billing Code: SA06660
Project Manager : TIM MURPHY

Laboratory #	Sample I.D.	Sample Date	Sample Time
D215821	G202	4-14-92	~~8~~ 7:35A

Sample Appearance : clear

Collector Comments: well # 8

Sampler Signature : Greg Spencer Division/Company IEPA/DLPC

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	1	40ml		VOA	N		
2	3	80oz		BNA	N		
2	4	80oz		PESTICIDE/PCB	N		

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): T. Murphy Signature: Timothy J. Murphy

Date: 4-14-92 Time: 7:35A Seal #: 73~~X~~57 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): T. Murphy Signature: Timothy J. Murphy

Date: 4-14-92 Time: 7:55A Seal # 7358

Courier - Sample Pickup: self

Courier - Sample Delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Anju Patel Signature: Anju Patel

Date: 4/14/92 Time: 6:30pm Seal #: 0007358 Intact?: (Y) / N

Lab Name: Springfield IEPA Comments:

D215821

IEPA - CLP
CHAIN OF CUSTODY

Seal # 7365

Date Sealed: 4/13/92 By: RKM

Facility
Name : HEDLUND MANUFACTURING
Region: CENTRAL
County: MONTGOMERY

Site Inventory # : 1350450001
Site Billing Code: SA06660
Project Manager : TIM MURPHY

Laboratory #	Sample I.D.	Sample Date	Sample Time
D215813 AP	G203	4-14-92	8:45A

Sample Appearance : clear

Collector Comments: well # 11

Sampler Signature : Greg Spencer Division/Company IEPA/DLPC

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	1	40ml		VOA	N		
2	3	80oz		BNA	N		
2	4	80oz		PESTICIDE/PCB	N		

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): T. Murphy Signature: Timothy J. Murphy

Date: 4-14-92 Time: 8:30A Seal #: 7365 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): T. Murphy Signature: Timothy J. Murphy

Date: 4-14-92 Time: 8:55A Seal # 7366

Courier - Sample Pickup: Self

Courier - Sample Delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Anju Patel Signature: Anju Patel

Date: 4/14/92 Time: 6:30pm Seal #: 0007366 Intact?: (Y) / N

Lab Name: Springfield IEPA Comments:

D215813 AP

IEPA - CLP
CHAIN OF CUSTODY

Seal # 7351

Date Sealed: 4/13/92 By: RKM

Facility
Name : HEDLUND MANUFACTURING
Region: CENTRAL
County: MONTGOMERY

Site Inventory # : 1350450001
Site Billing Code: SA06660
Project Manager : TIM MURPHY

Laboratory #	Sample I.D.	Sample Date	Sample Time
D215822	G204	4-14-92	9:15A

Sample Appearance : clear

Collector Comments: well #6

Sampler Signature : Greg Spencer Division/Company IEPA / DLPC

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	1	40ml		VOA	N		
2	3	80oz		BNA	N		
2	4	80oz		PESTICIDE/PCB	N		

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): T. Murphy Signature: Timothy J. Murphy

Date: 4-14-92 Time: 9:00A Seal #: 7351 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): T. Murphy Signature: Timothy J. Murphy

Date: 4-14-92 Time: 9:25A Seal # 7352

Courier - Sample Pickup: self

Courier - Sample Delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Anju Patel Signature: Anju Patel

Date: 4/14/92 Time: 6:30pm Seal #: 0007352 Intact?: (Y) / N

Lab Name: Springfield IEPA Comments:

D215822

IEPA - CLP
CHAIN OF CUSTODY

Seal # 7355

Date Sealed: 4/13/92 By: RCM

Facility
Name : HEDLUND MANUFACTURING
Region: CENTRAL
County: MONTGOMERY

Site Inventory # : 1350450001
Site Billing Code: SA06660
Project Manager : TIM MURPHY

Laboratory #	Sample I.D.	Sample Date	Sample Time
D215809		4-14-92	8:00A

Sample Appearance :

Collector Comments:

Sampler Signature : Timothy J. Murphy Division/Company IEPA/DLPC

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	15	40ml		TRIP BLANK	N		

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): T. Murphy Signature: Timothy J. Murphy

Date: 4-14-92 Time: 7:35A Seal #: 7355 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): T. Murphy Signature: Timothy J. Murphy

Date: 4-14-92 Time: 8:20A Seal # 7356

Courier - Sample Pickup: Self

Courier - Sample Delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Anju Patel Signature: Anju Patel

Date: 4/14/92 Time: 6:30pm Seal #: 0007356 Intact?: (Y) / N

Lab Name: Springfield IEPA Comments:

D215809

IEPA - CLP
CHAIN OF CUSTODY

Seal # 7353

Date Sealed: 4/13/92 By: RKM

Facility
Name : HEDLUND MANUFACTURING
Region: CENTRAL
County: MONTGOMERY

Site Inventory # : 1350450001
Site Billing Code: SA06660
Project Manager : TIM MURPHY

Laboratory #	Sample I.D.	Sample Date	Sample Time
D215815	X101	4-14-92	10:45A

Sample Appearance :

Collector Comments:

Sampler Signature : Ben Corbell Division/Company IEPA/DLPC

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	14	2oz		VOA	N		
1	16	8oz		BNA,PEST/PCB	N		

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): T. Murphy Signature: Timothy J. Murphy

Date: 4-14-92 Time: 9:55A Seal #: 7353 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): T. Murphy Signature: Timothy J. Murphy

Date: 4-14-92 Time: 5:00p Seal # 7354

Courier - Sample Pickup: Self

Courier - Sample Delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Anju Patel Signature: Anju Patel

Date: 4/14/92 Time: 6:30pm Seal #: 0007354 Intact?: (Y) N

Lab Name: Springfield, IEPA Comments:

D215815

IEPA - CLP
CHAIN OF CUSTODY

Seal # 7353

Date Sealed: 4/13/92 By: RKM

Facility
Name : HEDLUND MANUFACTURING
Region: CENTRAL
County: MONTGOMERY

Site Inventory # : 1350450001
Site Billing Code: SA06660
Project Manager : TIM MURPHY

Laboratory #	Sample I.D.	Sample Date	Sample Time
D215817	X102	4-14-92	12:20p

Sample Appearance :

Collector Comments:

Sampler Signature : Ken Corbell Division/Company IEPA/DLPC

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	14	2oz		VOA	N		
1	16	8oz		BNA,PEST/PCB	N		

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): T. Murphy Signature: Timothy J. Murphy

Date: 4-14-92 Time: 9:55A Seal #: 7353 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): T. Murphy Signature: Timothy J. Murphy

Date: 4-14-92 Time: 5:00p Seal # 7354

Courier - Sample Pickup: Self

Courier - Sample Delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Anju Patel Signature: Anju Patel

Date: 4/14/92 Time: 6:30pm Seal #: 0007354 Intact?: (Y) / N

Lab Name: Springfield IEPA Comments:

D215817

IEPA - CLP
CHAIN OF CUSTODY

Seal # 7353

Date Sealed: 4/13/92 By: Rlcn

Facility
Name : HEDLUND MANUFACTURING
Region: CENTRAL
County: MONTGOMERY

Site Inventory # : 1350450001
Site Billing Code: SA06660
Project Manager : TIM MURPHY

Laboratory #	Sample I.D.	Sample Date	Sample Time
D215818	X 103	4-14-92	12:45p

Sample Appearance :

Collector Comments:

Sampler Signature : Ben Corbell Division/Company IEPA/DLPC

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	14	2oz		VOA	N		
1	16	8oz		BNA,PEST/PCB	N		

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): T. Murphy Signature: Timothy J. Murphy

Date: 4-14-92 Time: 9:55A Seal #: 7353 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): T. Murphy Signature: Timothy J. Murphy

Date: 4-14-92 Time: 5:00p Seal # 7354

Courier - Sample Pickup: self

Courier - Sample Delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Anju Patel Signature: Anju Patel

Date: 4/14/92 Time: 6:30 pm Seal #: 0007354 Intact?: (Y) / N

Lab Name: Springfield IEPA Comments:

D215818

IEPA - CLP
CHAIN OF CUSTODY

Seal # 7353

Date Sealed: 4/13/92 By: RKm

Facility
Name : HEDLUND MANUFACTURING
Region: CENTRAL
County: MONTGOMERY

Site Inventory # : 1350450001
Site Billing Code: SA06660
Project Manager : TIM MURPHY

Laboratory #	Sample I.D.	Sample Date	Sample Time
D215816	X104	4-14-92	11:25A

Sample Appearance :

Collector Comments:

Sampler Signature : Ken Corbell Division/Company IEPA/DLPC

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	14	2oz		VOA	N		
1	16	8oz		BNA,PEST/PCB	N		

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): T. Murphy Signature: Timothy J. Murphy

Date: 4-14-92 Time: 9:55A Seal #: 7353 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): T. Murphy Signature: Timothy J. Murphy

Date: 4-14-92 Time: 5:00p Seal # 7354

Courier - Sample Pickup: self

Courier - Sample Delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Anju Patel Signature: Anju Patel

Date: 4/14/92 Time: 6:30pm Seal #: 0007354 Intact?: (Y) / N

Lab Name: Springfield IEPA Comments:

D215816

IEPA - CLP
CHAIN OF CUSTODY

Seal # 7353

Date Sealed: 4/13/92 By: RKM

Facility
Name : HEDLUND MANUFACTURING
Region: CENTRAL
County: MONTGOMERY

Site Inventory # : 1350450001
Site Billing Code: SA06660
Project Manager : TIM MURPHY

Laboratory #	Sample I.D.	Sample Date	Sample Time
D215814	X105	4-14-92	10:15A

Sample Appearance :

Collector Comments:

Sampler Signature : Ben Corbell Division/Company IEPA/DLPC

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	14	2oz		VOA	N		
1	16	8oz		BNA.PEST/PCB	N		

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): T. Murphy Signature: Timothy J. Murphy

Date: 4-14-92 Time: 9:55A Seal #: 7353 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): T. Murphy Signature: Timothy J. Murphy

Date: 4-14-92 Time: 5:00p Seal # 7354

Courier - Sample Pickup: Self

Courier - Sample Delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Anju Patel Signature: Anju Patel

Date: 4/14/92 Time: 6:30pm Seal #: 0007354 Intact?: (Y) / N

Lab Name: Springfield IEPA Comments:

D215814

IEPA - CLP
CHAIN OF CUSTODY

Seal # 7353

Date Sealed: 4/13/92 By: RKM

Facility
Name : HEDLUND MANUFACTURING
Region: CENTRAL
County: MONTGOMERY

Site Inventory # : 1350450001
Site Billing Code: SA06660
Project Manager : TIM MURPHY

Laboratory #	Sample I.D.	Sample Date	Sample Time
D215819	X106	4-14-92	3:05p

Sample Appearance :

Collector Comments:

Sampler Signature : Greg Spencer Division/Company IEPA/DLPC

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	14	2oz		VOA	N		
1	16	8oz		BNA,PEST/PCB	N		

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): T. Murphy Signature: Timothy J. Murphy

Date: 4-14-92 Time: 9:55A Seal #: 7353 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): T. Murphy Signature: Timothy J. Murphy

Date: 4-14-92 Time: 5:00p Seal # 7354

Courier - Sample Pickup: Self

Courier - Sample Delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Anju Patel Signature: Anju Patel

Date: 4/14/92 Time: 6:30pm Seal #: 000 7354 Intact?: (Y) / N

Lab Name: Springfield IEPA Comments:

D215819

IEPA - CLP
CHAIN OF CUSTODY

Seal # 7353

Date Sealed: 4/13/92 By: RCM

Facility
Name : HEDLUND MANUFACTURING
Region: CENTRAL
County: MONTGOMERY

Site Inventory # : 1350450001
Site Billing Code: SA06660
Project Manager : TIM MURPHY

Laboratory #	Sample I.D.	Sample Date	Sample Time
D215820	X107	4-14-92	4:00p

Sample Appearance :

Collector Comments:

Sampler Signature : Greg Spencer Division/Company IEPA/DLPC

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	14	2oz		VOA	N		
1	16	8oz		BNA,PEST/PCB	N		

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): T. Murphy Signature: Timothy J. Murphy

Date: 4-14-92 Time: 9:55A Seal #: 7354 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): T. Murphy Signature: Timothy J. Murphy

Date: 4-14-92 Time: 5:00p Seal # 7354

Courier - Sample Pickup: Self

Courier - Sample Delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Anju Patel Signature: Anju Patel

Date: 4/14/92 Time: 6:30pm Seal #: 0007354 Intact?: (Y) / N

Lab Name: Springfield IEPA Comments:

D215820

IEPA - CLP
CHAIN OF CUSTODY

Seal # 7383

Date Sealed: 4/13/92 By: RKM

Facility
Name : HEDLUND MANUFACTURING
Region: CENTRAL
County: MONTGOMERY

Site Inventory # : 1350450001
Site Billing Code: SA06660
Project Manager : TIM MURPHY

Laboratory #	Sample I.D.	Sample Date	Sample Time
D215810	X108	4-14-92	10:00A

Sample Appearance :

Collector Comments:

Sampler Signature : Ken Corkill Division/Company IEPA/DLPC

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	14	2oz		VOA	N		
1	16	8oz		BNA,PEST/PCB	N		

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): T. Murphy Signature: Timothy J. Murphy

Date: 4-14-92 Time: 9:55A Seal #: 7383 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): T. Murphy Signature: Timothy J. Murphy

Date: 4-14-92 Time: 5:00p Seal # 7384

Courier - Sample Pickup: Self

Courier - Sample Delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Anju Patel Signature: Anju Patel

Date: 4/14/92 Time: 6:30 pm Seal #: 0007384 Intact?: (Y) / N

Lab Name: Springfield IEPA Comments:

D215810

IEPA - CLP
CHAIN OF CUSTODY

Seal # 7383

Date Sealed: 4/13/92 By: RKM

Facility
Name : HEDLUND MANUFACTURING
Region: CENTRAL
County: MONTGOMERY

Site Inventory # : 1350450001
Site Billing Code: SA06660
Project Manager : TIM MURPHY

Laboratory #	Sample I.D.	Sample Date	Sample Time
D215811	X109	4-14-92	3:35p

Sample Appearance :

Collector Comments:

Sampler Signature : Greg Spencer Division/Company IEPA/DLPC

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	14	2oz		VOA	N		
1	16	8oz		BNA,PEST/PCB	N		

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): T. Murphy Signature: Timothy J. Murphy

Date: 4-14-92 Time: 9:55A Seal #: 7383 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): T. Murphy Signature: Timothy J. Murphy

Date: 4-14-92 Time: 5:00p Seal # 7384

Courier - Sample Pickup: Self

Courier - Sample Delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Anju Patel Signature: Anju Patel

Date: 4/14/92 Time: 6:30 pm Seal #: 0007384 Intact?: (Y) / N

Lab Name: Springfield IEPA Comments:

D215811

IEPA - CLP
CHAIN OF CUSTODY

Seal # 7383

Date Sealed: 4/13/92 By: RKm

Facility
Name : HEDLUND MANUFACTURING
Region: CENTRAL
County: MONTGOMERY

Site Inventory # : 1350450001
Site Billing Code: SA06660
Project Manager : TIM MURPHY

Laboratory #	Sample I.D.	Sample Date	Sample Time
D215812	X110	4-14-92	4:15p

Sample Appearance :

Collector Comments:

Sampler Signature : Greg Spencer Division/Company IEPA/DLPC

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	14	2oz		VOA	N		
1	16	8oz		BNA,PEST/PCB	N		

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): T. Murphy Signature: Timothy J. Murphy

Date: 4-14-92 Time: 9:55A Seal #: 7383 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): T. Murphy Signature: Timothy J. Murphy

Date: 4-14-92 Time: 5:00p Seal # 7384

Courier - Sample Pickup: Self

Courier - Sample Delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Anju Patel Signature: Anju Patel

Date: 4/14/92 Time: 6:30pm Seal #: 0007384 Intact?: (Y) / N

Lab Name: Springfield IEPA Comments:

D215812

IEPA DIVISION of LABORATORIES

QUALITY ASSURANCE SECTION

INORGANIC DATA VALIDATION

Site: Hedlund MFG Laboratory: IEPA Champaign lab

SDG: 70 Analytical Protocol ILM01.0 Review Date: 8-5-92

Reviewer: Chris Bridges Reviewer Signature: Chris Bridges

Number Aqueous Samples: 4 Analytes: Trace Metals, Hg, CN, Sulfide, Sulfate, Others:

Number Solid/Soil Samples: 10 Analytes: Trace Metals, Hg, CN, Sulfide, Sulfate, Others:

	YES	NO	N/A
Cover Page - Present?	(X)		
Do sample numbers on cover page agree with sample numbers on:			
(a) Chain - of - Custody Forms?	(X)		
(b) Form I's?	(X)		
Form I (Final Data)			
Are all Form I's present and complete?	(X)		
Are correct units (ug/l - waters & mg/kg - soils) indicated on Form I's?	(X)		
Are soil sample results corrected for percent solids?	(X)		

I. Holding Times:

		YES	NO	N/A
Mercury (28 days)	exceeded?		(X)	
Cyanide (14 days)	exceeded?		(X)	
other Metals (6 months)	exceeded?		(X)	

ACTIONS: None

II. Calibrations:

A. Initial Calibration Procedures:

		YES	NO	N/A
Are acceptable 2 point calibrations present for ICP?		(X)		
Are acceptable 4 point calibrations present for:	AA?	(X)		
	Mercury?	(X)		
	Cyanide?	(X)		
Are acceptable calibration present for other parameters?		(X)		

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

None

	YES	NO	N/A
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)		
All Calibration Verification % Recoveries meet criteria?	(X)		

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

None

III. Form 3 (Blanks)			
All necessary Form 3s present and complete?	(X)		
A. Initial and Continuing Calibration Blanks			
Analyzed at Correct Frequencies?	(X)		
All ICBs and CCBs meet no contamination criteria?	( )	X	

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

Waters

Sb 50.9/42 G202, G203, G204 are flagged (U)
Co 4.2, 3.1/3.0 G201, G202, G203, G204 are flagged (U)
Pb -1.6, -1.3, -1.4, -1.7/1.0 G202, G203, G204 are estimated (J)
Ag, 5.2/5.0 G201 is flagged (U)
Ba & Na, contamination noted but no data affected

Soils

Se 1.2/1.0 X102 is flagged (U)
Ba, Na, Pb- contamination noted; however, no data is affected.

	YES	NO	N/A
B. Preparation Blanks			
Was one preparation blank prepared for:			
each 20 samples?	X		
each batch?	X		
each matrix type?	X		
Were prep blanks analyzed at correct frequency?	X		
Were prep blanks reported in the appropriate concentration units?	X		
All prep blank results meet no contamination criteria?		X	

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

Waters

Zn 15.6/8.0 G201, G202, G203, G204 are flagged (U)

Ca, Fe, and Na - contamination noted; however no data affected

Ba, Co - Prep blank qualified by the ICB so no data can be qualified on the basis of the prep blank

Soils

Na 275/114, X102, X103 are flagged (U)

, Ba, Ca, Fe & Mg - contamination noted; however no samples affected

IV. Form IV (ICP Interference Check Sample)

	YES	NO	N/A
Form IV Present and complete?	X		
All % Recoveries of ICSAB Solution +/- 20 % of True Value	X		
For all 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)

Waters

Cr, V, and Zn - result exceeds their IDL, however no samples affected

Soils

Cu, Ag, and V - results exceed their IDL; however no samples affected

	YES	NO	N/A
V. Form VII Laboratory Control Sample: (Note: LCS - not required for aqueous Hg.)			
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 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

	YES	NO	N/A
VI. Form 6 Duplicate Sample Analysis:			
Present and complete for:			
each 20 samples?	X		
each matrix type?	X		
For both AA and ICP when both are used for same analyte?			X
Were all Duplicate Analyses differences within criteria?		X	

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

Soils

Ca 44.2% Dif. X101, X102, X103, X104, X105, X106, X107, X108, X109, X110 are estimated (J)

V 37.2% Dif. X101, X102, X103, X104, X105, X106, X107, X108, X109, X110 are estimated (J)

Waters

- None

	YES	NO	N/A
II. Form 5 (Spike Sample Recovery)			
Present and complete for: each 20 samples?	(X)		
each matrix type?	(X)		
Were all Matrix Spike % Recoveries within criteria?	( )	X	

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

Soils

Sb 31.2%R X108 is estimated (J)

Sb 31.2%R X101, X102, X103, X104, X105, X106, X107, X109 & X110 are flagged (UJ)

As 50.8%R X101, X102, X103, X104, X105, X106, X107, X108 & X109, and X110 are estimated (J)

Cr 38.3%R X101, X102, X103, X104, X105, X106, X107, X108, X109 & X110 are estimated (J)

Se 73.1%R X105, X103, X101, X106, X107, X108, X109, are estimated (J)

Se 73.1%R X102, X104, X110 are flagged (UJ)

Waters

- None

VIII. Furnace Atomic Absorption (AA) QC:

Did the laboratory utilize duplicate injections for all non-MSA analyses?	(X)		
Does the GFAA flow chart appear to have been followed for all analyses?	(X)		
Did the laboratory properly flag the GFAA results on the Form 1s	(X)		

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

Results flagged "W" are estimated (J)

Results flagged "+" are estimated (J)

Results flagged "E" are estimated (J)

	YES	NO	N/A
IX. Form IX (ICP Serial Dilution)			
Was Serial Dilution analysis performed for:			
each 20 or fewer samples?	X		
each matrix type?	X		
Were all serial dilution results within criteria?		X	

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

Waters

Ba G201, G202, G203, G204 are estimated (J)

	YES	NO	N/A
Raw Data			
Digestion Log for flame AA/ICP present?	X		
Digestion Log for furnace AA present?	X		
Digestion Log for mercury present?	X		
Digestion Log for cyanides present?	X		
Weights, dilutions and volumes used to obtain values present?	X		
Percent solids calculation present for soil (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 raw data to support all sample analyses and QC operations present?	X		
Legible?	X		
Properly Labeled?	X		

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: HEDLUND MFG

Lab Code: ——— Case No.: ——— SAS No.: ——— SDG No.: —70—

SOW No.: ILM01.0

EPA Sample No.	Lab Sample ID
G201	B205211
G201S	B205211S
G201D	B205211D
G202	B205212
G203	B205213
G204	B205214
X101	B205215
X101S	B205215S
X101D	B205215D
X102	B205216
X103	B205217
X104	B205218
X105	B205219
X106	B205220
X107	B205221
X108	B205222

Were ICP interelement corrections applied? Yes ——

Were ICP background corrections applied? Yes ——
If yes, were raw data generated before application of background corrections? No ——

Comments: -1.0 ML OF HCL ADDED TO MICROWAVE DIGESTION PROCEDURE FOR SOILS TO-
—IMPROVE ANTIMONY RECOVERY.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other that the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Roy Frazier Name: ROY FRAZIER
Date: 7/1/92 Title: LAB MGR

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: HEDLUND MFG

Lab Code: ——— Case No.: ——— SAS No.: ——— SDG No.: —70—

SOW No.: ILM01.0

EPA Sample No.	Lab Sample ID
———X109———	——B205223——
———X110———	——B205224——

Were ICP interelement corrections applied? Yes ——

Were ICP background corrections applied? Yes ——
If yes, were raw data generated before application of background corrections? No ——

Comments: -1.0 ML OF HCL ADDED TO MICROWAVE DIGESTION PROCEDURE FOR SOILS TO—
——IMPROVE ANTIMONY RECOVERY.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other that the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: ——— Name: ———
Date: ——— Title: ———

B000002

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

G201

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: HEDLUND MFG
Lab Code: Case No.: SAS No.: SDG No.: 70
Matrix (Water): Lab Sample ID: B205211
Level (Low/Med): Date Received: 4/15/92
% Solids:

Concentration Units (ug/L):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	144	U		PM	
7440-36-0	Antimony	42.0	U		PM	
7440-38-2	Arsenic	2.0	U		FM	
7440-39-3	Barium	145	B	E	PM	J
7440-41-7	Beryllium	1.0	U		PM	
7440-43-9	Cadmium	5.0	U		PM	
7440-70-2	Calcium	105000			PM	
7440-47-3	Chromium	3.0	U		PM	
7440-48-4	Cobalt	3.0	U		PM	
7440-50-8	Copper	5.0	U		PM	
7439-89-6	Iron	3520			PM	
7439-92-1	Lead	1.0	U		FM	
7439-95-4	Magnesium	34600			PM	
7439-96-5	Manganese	484			PM	
7439-97-6	Mercury	0.01	U		AV	
7440-02-2	Nickel	13.0	U		PM	
7440-09-7	Potassium	1350	B		PM	
7782-49-2	Selenium	5.0	U	W	FM	J
7440-22-4	Silver	5.0	U		PM	
7440-23-5	Sodium	75600			PM	
7440-28-0	Thallium	3.0	U		FM	
7440-62-2	Vanadium	3.0	U		PM	
7440-66-6	Zinc	15.8	~~B~~ U		PM	
	Cyanide	10.0	U		AS	
	Sulfide	1000	U		T	
	Sulfate	159000			AS	

Color Before: -Colorless- Clarity Before: Clear Texture:
Color After: Colorless Clarity After: Clear Artifacts:
Comments: SULFIDE SW846 METHODOLOGY
SULFATE IEPA METHODOLOGY

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

G202

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: HEDLUND MFG
Lab Code: Case No.: SAS No.: SDG No.: 70
Matrix (Water): Lab Sample ID: B205212
Level (Low/Med): Date Received: 4/15/92
% Solids:

Concentration Units (ug/L):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	144	U		PM	
7440-36-0	Antimony	42.0	U		PM	
7440-38-2	Arsenic	2.0	U		FM	
7440-39-3	Barium	151	B	E	PM	J
7440-41-7	Beryllium	1.0	U		PM	
7440-43-9	Cadmium	5.0	U		PM	
7440-70-2	Calcium	107000			PM	
7440-47-3	Chromium	3.0	U		PM	
7440-48-4	Cobalt	3.0	U		PM	
7440-50-8	Copper	5.0	U		PM	
7439-89-6	Iron	3570			PM	
7439-92-1	Lead	1.0	U		FM	J
7439-95-4	Magnesium	35300			PM	
7439-96-5	Manganese	475			PM	
7439-97-6	Mercury	0.01	U		AV	
7440-02-2	Nickel	13.0	U		PM	
7440-09-7	Potassium	695	B		PM	
7782-49-2	Selenium	5.0	U	W	FM	J
7440-22-4	Silver	5.0	U		PM	
7440-23-5	Sodium	78600			PM	
7440-28-0	Thallium	3.0	U		FM	
7440-62-2	Vanadium	3.0	U		PM	
7440-66-6	Zinc	23.3	U		PM	
	Cyanide	10.0	U		AS	
	Sulfide	1000	U		T	
	Sulfate	174000			AS	

Color Before: Colorless Clarity Before: Clear Texture:
Color After: Colorless Clarity After: Clear Artifacts:
Comments: SULFIDE SW846 METHODOLOGY
SULFATE IEPA METHODOLOGY

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EPA SAMPLE NO.

G203

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: HEDLUND MFG
Lab Code: Case No.: SAS No.: SDG No.: 70
Matrix (Water): Lab Sample ID: B205213
Level (Low/Med): Date Received: 4/15/92
% Solids:

Concentration Units (ug/L):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	144	U		PM	
7440-36-0	Antimony	70.1	U		PM	
7440-38-2	Arsenic	2.0	U		FM	
7440-39-3	Barium	297		E	PM	J
7440-41-7	Beryllium	1.0	U		PM	
7440-43-9	Cadmium	5.0	U		PM	
7440-70-2	Calcium	143000			PM	
7440-47-3	Chromium	3.0	U		PM	
7440-48-4	Cobalt	3.6	U ~~B~~		PM	
7440-50-8	Copper	7.9	B		PM	
7439-89-6	Iron	5040			PM	
7439-92-1	Lead	1.0	U		FM	J
7439-95-4	Magnesium	42300			PM	
7439-96-5	Manganese	750			PM	
7439-97-6	Mercury	0.01	U		AV	
7440-02-2	Nickel	13.0	U		PM	
7440-09-7	Potassium	6040			PM	
7782-49-2	Selenium	5.0	U	W	FM	J
7440-22-4	Silver	5.0	U		PM	
7440-23-5	Sodium	68200			PM	
7440-28-0	Thallium	3.0	U		FM	
7440-62-2	Vanadium	3.0	U		PM	
7440-66-6	Zinc	22.7	U		PM	
	Cyanide	10.0	U		AS	
	Sulfide	1000	U		T	
	Sulfate	193000			AS	

Color Before: Colorless Clarity Before: Clear Texture:
Color After: Colorless Clarity After: Clear Artifacts:
Comments: SULFIDE SW846 METHODOLOGY
SULFATE IEPA METHODOLOGY

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EPA SAMPLE NO.

G204

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: HEDLUND MFG
Lab Code: Case No.: SAS No.: SDG No.: 70
Matrix (Water): Lab Sample ID: B205214
Level (Low/Med): Date Received: 4/15/92
% Solids:

Concentration Units (ug/L):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	144	U		PM	
7440-36-0	Antimony	75.9	U		PM	
7440-38-2	Arsenic	2.0	U		FM	
7440-39-3	Barium	142	B	E	PM	J
7440-41-7	Beryllium	1.0	U		PM	
7440-43-9	Cadmium	5.0	U		PM	
7440-70-2	Calcium	204000			PM	
7440-47-3	Chromium	3.0	U		PM	
7440-48-4	Cobalt	3.0	U		PM	
7440-50-8	Copper	5.0	U		PM	
7439-89-6	Iron	2400			PM	
7439-92-1	Lead	1.0	U	W	FM	J
7439-95-4	Magnesium	49100			PM	
7439-96-5	Manganese	1680			PM	
7439-97-6	Mercury	0.01	U		AV	
7440-02-2	Nickel	13.0	U		PM	
7440-09-7	Potassium	178000			PM	
7782-49-2	Selenium	5.0	U	E	FM	J
7440-22-4	Silver	5.0	U		PM	
7440-23-5	Sodium	74600			PM	
7440-28-0	Thallium	3.0	U		FM	
7440-62-2	Vanadium	3.0	U		PM	
7440-66-6	Zinc	43.2	U		PM	
	Cyanide	10.0	U		AS	
	Sulfide	1000	U		T	
	Sulfate	211000			AS	

Color Before: Colorless Clarity Before: Clear Texture:
Color After: Colorless Clarity After: Clear Artifacts:
Comments: SULFIDE SW846 METHODOLOGY
SULFATE IEPA METHODOLOGY

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: HEDLUND MFG
Lab Code: Case No.: SAS No.: SDG No.: 70
Matrix (Soil): Lab Sample ID: B205215
Level (Low/Med): Date Received: 4/15/92
% Solids: 81.2

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	12800			PM	
7440-36-0	Antimony	5.2	U	N	PM	J
7440-38-2	Arsenic	9.1		S,N	FM	J
7440-39-3	Barium	1250			PM	
7440-41-7	Beryllium	1.4			PM	
7440-43-9	Cadmium	0.83			PM	
7440-70-2	Calcium	23100		*	PM	J
7440-47-3	Chromium	94.7		N,*	PM	J
7440-48-4	Cobalt	6.0	B		PM	
7440-50-8	Copper	48.5			PM	
7439-89-6	Iron	36100			PM	
7439-92-1	Lead	519		*	FM	
7439-95-4	Magnesium	2870		*	PM	
7439-96-5	Manganese	455			PM	
7439-97-6	Mercury	0.54 ~~0.52~~ ~~0.21~~			AS	
7440-02-2	Nickel	16.9			PM	
7440-09-7	Potassium	1760			PM	
7782-49-2	Selenium	1.1		W,N	FM	J
7440-22-4	Silver	1.4			PM	
7440-23-5	Sodium	1080			PM	
7440-28-0	Thallium	0.45	B	W	FM	J
7440-62-2	Vanadium	51.8		*	PM	J
7440-66-6	Zinc	610			PM	
	Cyanide	1.0	U		AS	

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

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: HEDLUND MFG
Lab Code: Case No.: SAS No.: SDG No.: 70
Matrix (Soil): Lab Sample ID: B205216
Level (Low/Med): Date Received: 4/15/92
% Solids: 78.4

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	22200			PM	
7440-36-0	Antimony	5.4	U	N	PM	J
7440-38-2	Arsenic	5.8		S,N	FM	J
7440-39-3	Barium	222			PM	
7440-41-7	Beryllium	1.01			PM	
7440-43-9	Cadmium	0.64	U		PM	
7440-70-2	Calcium	4610		*	PM	J
7440-47-3	Chromium	26.9		N,*	PM	J
7440-48-4	Cobalt	7.9			PM	
7440-50-8	Copper	21.0			PM	
7439-89-6	Iron	21300			PM	
7439-92-1	Lead	12.4		*	FM	
7439-95-4	Magnesium	2380		*	PM	
7439-96-5	Manganese	351			PM	
7439-97-6	Mercury	~~0.02~~ 0.05	B		AS	
7440-02-2	Nickel	16.8			PM	
7440-09-7	Potassium	1760			PM	
7782-49-2	Selenium	0.13	U	+,N	FM	J
7440-22-4	Silver	1.0	B		PM	
7440-23-5	Sodium	125	~~B~~ U		PM	
7440-28-0	Thallium	0.38	U		FM	
7440-62-2	Vanadium	29.9		*	PM	J
7440-66-6	Zinc	65.2			PM	
	Cyanide	1.1	U		AS	

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

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: HEDLUND MFG
Lab Code: Case No.: SAS No.: SDG No.: 70
Matrix (Soil): Lab Sample ID: B205217
Level (Low/Med): Date Received: 4/15/92
% Solids: 75.8

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	17300			PM	
7440-36-0	Antimony	5.1	U	N	PM	J
7440-38-2	Arsenic	5.1		N	FM	J
7440-39-3	Barium	209			PM	
7440-41-7	Beryllium	0.97			PM	
7440-43-9	Cadmium	0.61	U		PM	
7440-70-2	Calcium	6050		*	PM	J
7440-47-3	Chromium	24.7		N,*	PM	J
7440-48-4	Cobalt	14.1			PM	
7440-50-8	Copper	23.0			PM	
7439-89-6	Iron	15800			PM	
7439-92-1	Lead	37.7		*	FM	
7439-95-4	Magnesium	2370		*	PM	
7439-96-5	Manganese	383			PM	
7439-97-6	Mercury	0.1% ~~0.34~~			AS	
7440-02-2	Nickel	17.3			PM	
7440-09-7	Potassium	2240			PM	
7782-49-2	Selenium	0.82		+,N	FM	J
7440-22-4	Silver	1.1	B		PM	
7440-23-5	Sodium	133	U ~~B~~		PM	
7440-28-0	Thallium	0.37		W	FM	J
7440-62-2	Vanadium	37.0		*	PM	J
7440-66-6	Zinc	250			PM	
	Cyanide	1.1	U		AS	

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

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: HEDLUND MFG
Lab Code: Case No.: SAS No.: SDG No.: 70
Matrix (Soil): Lab Sample ID: B205218
Level (Low/Med): Date Received: 4/15/92
% Solids: 82.5

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	18100			PM	
7440-36-0	Antimony	5.0	U	N	PM	J
7440-38-2	Arsenic	1.8		N	FM	J
7440-39-3	Barium	125			PM	
7440-41-7	Beryllium	0.83			PM	
7440-43-9	Cadmium	0.60	U		PM	
7440-70-2	Calcium	3380		*	PM	J
7440-47-3	Chromium	22.7		N,*	PM	J
7440-48-4	Cobalt	2.4	B		PM	
7440-50-8	Copper	17.0			PM	
7439-89-6	Iron	10400			PM	
7439-92-1	Lead	11.8		*	FM	
7439-95-4	Magnesium	2010		*	PM	
7439-96-5	Manganese	23.3			PM	
7439-97-6	Mercury	0.14 ~~0.13~~ ~~0.05~~			AS	
7440-02-2	Nickel	18.3			PM	
7440-09-7	Potassium	301	B		PM	
7782-49-2	Selenium	0.12	U	W,N	FM	J
7440-22-4	Silver	0.60	U		PM	
7440-23-5	Sodium	559	B		PM	
7440-28-0	Thallium	0.36	U		FM	
7440-62-2	Vanadium	21.4		*	PM	J
7440-66-6	Zinc	38.9			PM	
	Cyanide	1.0	U		AS	

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

B000010

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: HEDLUND MFG
Lab Code: Case No.: SAS No.: SDG No.: 70
Matrix (Soil): Lab Sample ID: B205219
Level (Low/Med): Date Received: 4/15/92
% Solids: 57.1

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	19900			PM	
7440-36-0	Antimony	7.5	U	N	PM	J
7440-38-2	Arsenic	12.7		N	FM	J
7440-39-3	Barium	526			PM	
7440-41-7	Beryllium	1.53			PM	
7440-43-9	Cadmium	7.14			PM	
7440-70-2	Calcium	16900		*	PM	J
7440-47-3	Chromium	98.3		N,*	PM	J
7440-48-4	Cobalt	15.8			PM	
7440-50-8	Copper	150			PM	
7439-89-6	Iron	53000			PM	
7439-92-1	Lead	830		*	FM	
7439-95-4	Magnesium	3420		*	PM	
7439-96-5	Manganese	263			PM	
7439-97-6	Mercury	162.5 ~~64.0~~			AS	
7440-02-2	Nickel	39.8			PM	
7440-09-7	Potassium	2630			PM	
7782-49-2	Selenium	2.86		W,N	FM	J
7440-22-4	Silver	2.9			PM	
7440-23-5	Sodium	514	B		PM	
7440-28-0	Thallium	0.64	B	W	FM	J
7440-62-2	Vanadium	47.2		*	PM	J
7440-66-6	Zinc	1490			PM	
	Cyanide	1.5	U		AS	

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

B000011

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: HEDLUND MFG
Lab Code: Case No.: SAS No.: SDG No.: 70
Matrix (Soil): Lab Sample ID: B205220
Level (Low/Med): Date Received: 4/15/92
% Solids: 72.3

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	25100			PM	
7440-36-0	Antimony	5.8	U	N	PM	J
7440-38-2	Arsenic	4.6		+,N	FM	J
7440-39-3	Barium	195			PM	
7440-41-7	Beryllium	0.95			PM	
7440-43-9	Cadmium	0.69	U		PM	
7440-70-2	Calcium	50100		*	PM	J
7440-47-3	Chromium	67.0		N,*	PM	J
7440-48-4	Cobalt	8.04			PM	
7440-50-8	Copper	31.2			PM	
7439-89-6	Iron	20400			PM	
7439-92-1	Lead	41.4		*	FM	
7439-95-4	Magnesium	6430		*	PM	
7439-96-5	Manganese	275			PM	
7439-97-6	Mercury	~~0.02~~ 0.04	B		AS	
7440-02-2	Nickel	26.1			PM	
7440-09-7	Potassium	4620			PM	
7782-49-2	Selenium	0.69	U	W,N	FM	J
7440-22-4	Silver	0.69	U		PM	
7440-23-5	Sodium	370	B		PM	
7440-28-0	Thallium	0.41	U	W	FM	J
7440-62-2	Vanadium	46.8		*	PM	J
7440-66-6	Zinc	146			PM	
	Cyanide	1.2	U		AS	

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

6000012

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: HEDLUND MFG
Lab Code: Case No.: SAS No.: SDG No.: 70
Matrix (Soil): Lab Sample ID: B205221
Level (Low/Med): Date Received: 4/15/92
% Solids: 79.5

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	21500			PM	
7440-36-0	Antimony	5.0	U	N	PM	J
7440-38-2	Arsenic	5.5		S,N	FM	J
7440-39-3	Barium	191			PM	
7440-41-7	Beryllium	0.96			PM	
7440-43-9	Cadmium	0.60	U		PM	
7440-70-2	Calcium	5050		*	PM	J
7440-47-3	Chromium	26.5		N,*	PM	J
7440-48-4	Cobalt	10.5			PM	
7440-50-8	Copper	18.2			PM	
7439-89-6	Iron	18200			PM	
7439-92-1	Lead	25.6		*	FM	
7439-95-4	Magnesium	2480		*	PM	
7439-96-5	Manganese	561			PM	
7439-97-6	Mercury	0.05 ~~0.04~~ ~~0.02~~	B		AS	
7440-02-2	Nickel	18.5			PM	
7440-09-7	Potassium	1430			PM	
7782-49-2	Selenium	0.19	B	W,N	FM	J
7440-22-4	Silver	1.4			PM	
7440-23-5	Sodium	302	B		PM	
7440-28-0	Thallium	0.36	U		FM	
7440-62-2	Vanadium	30.0		*	PM	J
7440-66-6	Zinc	70.6			PM	
	Cyanide	1.0	U		AS	

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

B000013

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

EPA SAMPLE NO.

X108

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: HEDLUND MFG
Lab Code: Case No.: SAS No.: SDG No.: 70
Matrix (Soil): Lab Sample ID: B205222
Level (Low/Med): Date Received: 4/15/92
% Solids: 53.3

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	12400			PM	
7440-36-0	Antimony	15.3		N	PM	J
7440-38-2	Arsenic	12.2		N	FM	J
7440-39-3	Barium	767			PM	
7440-41-7	Beryllium	1.12			PM	
7440-43-9	Cadmium	3.99			PM	
7440-70-2	Calcium	5660		*	PM	J
7440-47-3	Chromium	248		N,*	PM	J
7440-48-4	Cobalt	7.3	B		PM	
7440-50-8	Copper	189			PM	
7439-89-6	Iron	53800			PM	
7439-92-1	Lead	1027		*	FM	
7439-95-4	Magnesium	1650		*	PM	
7439-96-5	Manganese	177			PM	
7439-97-6	Mercury	6.07 ~~5.85~~ ~~2.34~~			AS	
7440-02-2	Nickel	29.3			PM	
7440-09-7	Potassium	1590			PM	
7782-49-2	Selenium	4.8		S~~*~~,N	FM	J
7440-22-4	Silver	3.1			PM	
7440-23-5	Sodium	1814			PM	
7440-28-0	Thallium	0.55	U	W	FM	J
7440-62-2	Vanadium	34.5		*	PM	J
7440-66-6	Zinc	810			PM	
	Cyanide	3.1			AS	

Color Before: Black Clarity Before: Opaque Texture: Fine
Color After: Orange Clarity After: Clear Artifacts:
Comments:

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

EPA SAMPLE NO.

X109

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: HEDLUND MFG
Lab Code: Case No.: SAS No.: SDG No.: 70
Matrix (Soil): Lab Sample ID: B205223
Level (Low/Med): Date Received: 4/15/92
% Solids: 73.7

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	24700			PM	
7440-36-0	Antimony	5.7	U	N	PM	J
7440-38-2	Arsenic	10.2		S,N	FM	J
7440-39-3	Barium	237			PM	
7440-41-7	Beryllium	1.0			PM	
7440-43-9	Cadmium	1.1			PM	
7440-70-2	Calcium	40800		*	PM	J
7440-47-3	Chromium	79.6		N,*	PM	J
7440-48-4	Cobalt	7.16			PM	
7440-50-8	Copper	60.9			PM	
7439-89-6	Iron	25100			PM	
7439-92-1	Lead	216		*	FM	
7439-95-4	Magnesium	4210		*	PM	
7439-96-5	Manganese	381			PM	
7439-97-6	Mercury	0.25 ~~0.09~~			AS	
7440-02-2	Nickel	33.8			PM	
7440-09-7	Potassium	3080			PM	
7782-49-2	Selenium	0.82		W,N	FM	J
7440-22-4	Silver	0.91	B		PM	
7440-23-5	Sodium	474	B		PM	
7440-28-0	Thallium	0.46	B	W	FM	J
7440-62-2	Vanadium	49.1		*	PM	J
7440-66-6	Zinc	602			PM	
	Cyanide	1.1	U		AS	

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

B000015

FORM I - IN
SOIL

3/90

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

EPA SAMPLE NO.

X110

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: HEDLUND MFG
Lab Code: Case No.: SAS No.: SDG No.: 70
Matrix (Soil): Lab Sample ID: B205224
Level (Low/Med): Date Received: 4/15/92
% Solids: 80.0

Concentration Units (mg/kg dry weight):

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	15000			PM	
7440-36-0	Antimony	5.0	U	N	PM	J
7440-38-2	Arsenic	3.6		N	FM	J
7440-39-3	Barium	172			PM	
7440-41-7	Beryllium	0.70			PM	
7440-43-9	Cadmium	0.60	U		PM	
7440-70-2	Calcium	6280		*	PM	J
7440-47-3	Chromium	21.4		N,*	PM	J
7440-48-4	Cobalt	4.5	B		PM	
7440-50-8	Copper	14.5			PM	
7439-89-6	Iron	14800			PM	
7439-92-1	Lead	31.2		*	FM	
7439-95-4	Magnesium	1910		*	PM	
7439-96-5	Manganese	268			PM	
7439-97-6	Mercury	~~0.02~~ 0.06	B		AS	
7440-02-2	Nickel	13.5			PM	
7440-09-7	Potassium	1590			PM	
7782-49-2	Selenium	0.60	U	N	FM	J
7440-22-4	Silver	0.60	U		PM	
7440-23-5	Sodium	194	B		PM	
7440-28-0	Thallium	0.36	U		FM	
7440-62-2	Vanadium	32.0		*	PM	J
7440-66-6	Zinc	71.3			PM	
	Cyanide	1.0	U		AS	

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

B000016

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G201

ab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) WATER Lab Sample ID: D215808

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0420BK05

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: not dec. ____ Date Analyzed: 04/20/92

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

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

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	4	J
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	UJ
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	7	J
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	36	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G201

ab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) WATER Lab Sample ID: D215808

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0420BK05

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: not dec. ____ Date Analyzed: 04/20/92

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

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G202

ab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) WATER Lab Sample ID: D215821

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0420BK07

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: not dec. ____ Date Analyzed: 04/20/92

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	180	
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	3	J
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	UJ
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	5	J
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	22	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G202

ab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) WATER Lab Sample ID: D215821

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0420BK07

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: not dec. ____ Date Analyzed: 04/20/92

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

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G203

ab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) WATER Lab Sample ID: D215813

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0420BK06

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: not dec. ____ Date Analyzed: 04/20/92

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	47	
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	UJ
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	8	J
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G203

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) WATER Lab Sample ID: D215813

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0420BK06

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: not dec. ____ Date Analyzed: 04/20/92

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

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G204

ab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) WATER Lab Sample ID: D215822

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0420BK08

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: not dec. ____ Date Analyzed: 04/20/92

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

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

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G204

ab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) WATER Lab Sample ID: D215822

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0420BK08

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: not dec. ____ Date Analyzed: 04/20/92

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

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKTB

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) WATER Lab Sample ID: D215809

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0420BK04

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: not dec. ____ Date Analyzed: 04/20/92

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

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

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKTB

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) WATER Lab Sample ID: D215809

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0420BK04

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: not dec. ____ Date Analyzed: 04/20/92

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

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) SOIL Lab Sample ID: D215815

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0423GK04

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: not dec. 20 Date Analyzed: 04/23/92

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	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	61	~~B~~ U am
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X101

ab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) SOIL Lab Sample ID: D215815

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0423GK04

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: not dec. 20 Date Analyzed: 04/23/92

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

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

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 60-29-3	ETHYL ETHER	4.98	7	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

ıb Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) SOIL Lab Sample ID: D215817

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0423LC11

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: not dec. 23 Date Analyzed: 04/23/92

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
74-87-3	Chloromethane	13	U	
74-83-9	Bromomethane	13	U	
75-01-4	Vinyl Chloride	13	U	
75-00-3	Chloroethane	13	U	
75-09-2	Methylene Chloride	44	~~B~~ U	am
67-64-1	Acetone	13 ~~10~~	~~BJ~~ U	am
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 ~~4~~	~~BJ~~ U	am
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	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) SOIL Lab Sample ID: D215817

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0423LC11

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: not dec. 23 Date Analyzed: 04/23/92

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

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) SOIL Lab Sample ID: D215818

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0423LC12

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: not dec. 20 Date Analyzed: 04/23/92

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
74-87-3	Chloromethane	12	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 ~~8~~	~~BJ~~ U	am
67-64-1	Acetone	12 ~~8~~	~~BJ~~ U	am
75-15-0	Carbon Disulfide	12	U	
75-35-4	1,1-Dichloroethene	12	U	
75-34-3	1,1-Dichloroethane	12	U	
540-59-0	1,2-Dichloroethene (total)	12	U	
67-66-3	Chloroform	12	U	
107-06-2	1,2-Dichloroethane	12	U	
78-93-3	2-Butanone	12	U	
71-55-6	1,1,1-Trichloroethane	12	U	
56-23-5	Carbon Tetrachloride	12	U	
75-27-4	Bromodichloromethane	12	U	
78-87-5	1,2-Dichloropropane	12	U	
10061-01-5	cis-1,3-Dichloropropene	12	U	
79-01-6	Trichloroethene	12	U	
124-48-1	Dibromochloromethane	12	U	
79-00-5	1,1,2-Trichloroethane	12	U	
71-43-2	Benzene	12	U	
10061-02-6	trans-1,3-Dichloropropene	12	U	
75-25-2	Bromoform	12	U	
108-10-1	4-Methyl-2-Pentanone	12	U	
591-78-6	2-Hexanone	12	U	
127-18-4	Tetrachloroethene	12	U	
79-34-5	1,1,2,2-Tetrachloroethane	12	U	
108-88-3	Toluene	12	J	
108-90-7	Chlorobenzene	12	U	
100-41-4	Ethylbenzene	28		
100-42-5	Styrene	12	U	
1330-20-7	Xylene (total)	640		

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) SOIL Lab Sample ID: D215818

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0423LC12

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: not dec. 20 Date Analyzed: 04/23/92

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

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

Number TICs found: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. HYDROCARBON	15.87	6	J
2.	UNKNOWN ALIP. HYDROCARBON	16.97	9	J
3.	UNKNOWN	17.07	9	J
4.	UNKNOWN	17.50	9	J
5.	UNKNOWN	17.57	6	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103DL

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) SOIL Lab Sample ID: D215818

Sample wt/vol: 2.5 (g/mL) G Lab File ID: B0423GK05

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: not dec. 20 Date Analyzed: 04/23/92

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

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

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	25	U
74-83-9	Bromomethane	25	U
75-01-4	Vinyl Chloride	25	U
75-00-3	Chloroethane	25	U
75-09-2	Methylene Chloride	25~~8~~	~~BDU~~ U am
67-64-1	Acetone	25	U
75-15-0	Carbon Disulfide	25	U
75-35-4	1,1-Dichloroethene	25	U
75-34-3	1,1-Dichloroethane	25	U
540-59-0	1,2-Dichloroethene (total)	25	U
67-66-3	Chloroform	25	U
107-06-2	1,2-Dichloroethane	25	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	25	U
56-23-5	Carbon Tetrachloride	25	U
75-27-4	Bromodichloromethane	25	U
78-87-5	1,2-Dichloropropane	25	U
10061-01-5	cis-1,3-Dichloropropene	25	U
79-01-6	Trichloroethene	25	U
124-48-1	Dibromochloromethane	25	U
79-00-5	1,1,2-Trichloroethane	25	U
71-43-2	Benzene	25	U
10061-02-6	trans-1,3-Dichloropropene	25	U
75-25-2	Bromoform	25	U
108-10-1	4-Methyl-2-Pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	25	U
79-34-5	1,1,2,2-Tetrachloroethane	25	U
108-88-3	Toluene	13	DJ
108-90-7	Chlorobenzene	25	U
100-41-4	Ethylbenzene	40	D
100-42-5	Styrene	8	DJ
1330-20-7	Xylene (total)	910	D

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X103DL

ab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) SOIL Lab Sample ID: D215818

Sample wt/vol: 2.5 (g/mL) G Lab File ID: B0423GK05

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: not dec. 20 Date Analyzed: 04/23/92

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

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

Number TICs found: 4

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. HYDROCARBON	16.95	11	DJ
2.	UNKNOWN	17.05	6	DJ
3.	UNKNOWN ALIP. HYDROCARBON	17.49	8	DJ
4.	UNKNOWN ALIP. HYDROCARBON	17.57	7	DJ

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

ab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) SOIL Lab Sample ID: D215816

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0423LC10

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: not dec. 15 Date Analyzed: 04/23/92

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
74-87-3	Chloromethane	12	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	12.8	~~B~~ U	am
67-64-1	Acetone	16	~~B~~ U	am
75-15-0	Carbon Disulfide	12	U	
75-35-4	1,1-Dichloroethene	12	U	
75-34-3	1,1-Dichloroethane	12	U	
540-59-0	1,2-Dichloroethene (total)	12	U	
67-66-3	Chloroform	12	U	
107-06-2	1,2-Dichloroethane	12	U	
78-93-3	2-Butanone	12	U	
71-55-6	1,1,1-Trichloroethane	12	U	
56-23-5	Carbon Tetrachloride	12	U	
75-27-4	Bromodichloromethane	12	U	
78-87-5	1,2-Dichloropropane	12	U	
10061-01-5	cis-1,3-Dichloropropene	12	U	
79-01-6	Trichloroethene	12	U	
124-48-1	Dibromochloromethane	12	U	
79-00-5	1,1,2-Trichloroethane	12	U	
71-43-2	Benzene	12	U	
10061-02-6	trans-1,3-Dichloropropene	12	U	
75-25-2	Bromoform	12	U	
108-10-1	4-Methyl-2-Pentanone	12	U	
591-78-6	2-Hexanone	12	U	
127-18-4	Tetrachloroethene	12	U	
79-34-5	1,1,2,2-Tetrachloroethane	12	U	
108-88-3	Toluene	12	U	
108-90-7	Chlorobenzene	12	U	
100-41-4	Ethylbenzene	12	U	
100-42-5	Styrene	12	U	
1330-20-7	Xylene (total)	12	U	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) SOIL Lab Sample ID: D215816

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0423LC10

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: not dec. 15 Date Analyzed: 04/23/92

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

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) SOIL Lab Sample ID: D215814

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0423GK03

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: not dec. 37 Date Analyzed: 04/23/92

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
74-87-3	Chloromethane	16	U	
74-83-9	Bromomethane	16	U	
75-01-4	Vinyl Chloride	16	U	
75-00-3	Chloroethane	16	U	
75-09-2	Methylene Chloride	71	~~B~~ U	am
67-64-1	Acetone	16 ~~12~~	~~BJ~~ U	am
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	
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	

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) SOIL Lab Sample ID: D215814

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0423GK03

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: not dec. 37 Date Analyzed: 04/23/92

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

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

ab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) SOIL Lab Sample ID: D215819

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0423GK01

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: not dec. 26 Date Analyzed: 04/23/92

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

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

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) SOIL Lab Sample ID: D215819

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0423GK01

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: not dec. 26 Date Analyzed: 04/23/92

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

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107

ab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) SOIL Lab Sample ID: D215820

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0423GK02

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: not dec. 22 Date Analyzed: 04/23/92

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
74-87-3	Chloromethane	13	U	
74-83-9	Bromomethane	13	U	
75-01-4	Vinyl Chloride	13	U	
75-00-3	Chloroethane	13	U	
75-09-2	Methylene Chloride	13 ~~12~~	~~BJ~~ U	am
67-64-1	Acetone	13 ~~8~~	~~BJ~~ U	am
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	U	
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	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X107

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) SOIL Lab Sample ID: D215820

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0423GK02

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: not dec. 22 Date Analyzed: 04/23/92

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

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X108

ab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) SOIL Lab Sample ID: D215810

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0416LC05

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: not dec. 42 Date Analyzed: 04/16/92

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
74-87-3	Chloromethane	17	U	
74-83-9	Bromomethane	17	U	
75-01-4	Vinyl Chloride	17	U	
75-00-3	Chloroethane	17	UJ	
75-09-2	Methylene Chloride	17	~~BJ~~ U	am
67-64-1	Acetone	25	~~B~~ U	am
75-15-0	Carbon Disulfide	17	U	
75-35-4	1,1-Dichloroethene	17	U	
75-34-3	1,1-Dichloroethane	17	U	
540-59-0	1,2-Dichloroethene (total)	17	U	
67-66-3	Chloroform	17	U	
107-06-2	1,2-Dichloroethane	17	U	
78-93-3	2-Butanone	17	~~BJ~~ UJ	am
71-55-6	1,1,1-Trichloroethane	17	U	
56-23-5	Carbon Tetrachloride	17	U	
75-27-4	Bromodichloromethane	17	U	
78-87-5	1,2-Dichloropropane	17	U	
10061-01-5	cis-1,3-Dichloropropene	17	U	
79-01-6	Trichloroethene	17	U	
124-48-1	Dibromochloromethane	17	U	
79-00-5	1,1,2-Trichloroethane	17	U	
71-43-2	Benzene	17	U	
10061-02-6	trans-1,3-Dichloropropene	17	U	
75-25-2	Bromoform	17	U	
108-10-1	4-Methyl-2-Pentanone	17	U	
591-78-6	2-Hexanone	17	U	
127-18-4	Tetrachloroethene	17	U	
79-34-5	1,1,2,2-Tetrachloroethane	17	U	
108-88-3	Toluene	17	U	
108-90-7	Chlorobenzene	17	U	
100-41-4	Ethylbenzene	17	U	
100-42-5	Styrene	17	U	
1330-20-7	Xylene (total)	17	U	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X108

ab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) SOIL Lab Sample ID: D215810

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0416LC05

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: not dec. 42 Date Analyzed: 04/16/92

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

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X109

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) SOIL Lab Sample ID: D215811

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0416LC06

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: not dec. 23 Date Analyzed: 04/16/92

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	UJ
75-09-2	Methylene Chloride	25	~~B~~U am
67-64-1	Acetone	13	U
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

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X109

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) SOIL Lab Sample ID: D215811

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0416LC06

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: not dec. 23 Date Analyzed: 04/16/92

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

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X110

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) SOIL Lab Sample ID: D215812

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0416LC07

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: not dec. 17 Date Analyzed: 04/16/92

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	UJ
75-09-2	Methylene Chloride	35	~~B~~ U am
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	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	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X110

ab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) SOIL Lab Sample ID: D215812

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0416LC07

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: not dec. 17 Date Analyzed: 04/16/92

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

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

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 565-80-0	3-PENTANONE, 2,4-DIMETHYL-	16.57	7	JN

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G201

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) WATER Lab Sample ID: D215808

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0507W07

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 04/16/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/08/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G201

ıb Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) WATER Lab Sample ID: D215808

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0507W07

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 04/16/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/08/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G201

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) WATER Lab Sample ID: D215808

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0507W07

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 04/16/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/08/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 16

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1. 96-19-5	1-PROPENE, 1,2,3-TRICHLORO-	8.50	15	~~JNB~~ U	am
2.	ALIPHATIC ALCOHOL	8.89	8	~~BJ~~ U	am
3. 2441-97-6	CYCLOHEXENE, 3-CHLORO-	9.39	4	~~JNB~~ U	am
4. 79-34-5	ETHANE, 1,1,2,2-TETRACHLORO-	9.50	15	~~JNB~~ U	am
5.	UNKNOWN	10.39	130	~~BJ~~ U	am
6.	UNKNOWN	12.75	3	~~BJ~~ U	am
7.	UNKNOWN	14.54	120	~~BJ~~ U	am
8.	UNKNOWN	14.64	21	~~BJ~~ U	am
9.	UNKNOWN	16.29	13	~~BJ~~ U	am
10.	UNKNOWN	18.37	7	~~BJ~~ U	am
11.	UNKNOWN	19.80	7	~~BJ~~ U	am
12.	UNKNOWN	22.52	19	~~BJ~~ U	am
13.	UNKNOWN	25.47	2	~~BJ~~ U	am
14.	UNKNOWN	25.62	4	~~BJ~~ U	am
15.	UNKNOWN	29.02	7	~~BJ~~ U	am
16.	UNKNOWN	31.42	2	~~BJ~~ U	am

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G202

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) WATER Lab Sample ID: D215821

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0507W09

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 04/16/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/08/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G202

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) WATER Lab Sample ID: D215821

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0507W09

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 04/16/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/08/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G202

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) WATER Lab Sample ID: D215821

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0507W09

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 04/16/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/08/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 16

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1.	UNKNOWN	8.10	48	J	
2. 96-19-5	1-PROPENE, 1,2,3-TRICHLORO-	8.52	9	~~JNB~~ U	am
3.	UNKNOWN ALCOHOL	8.89	38	J	
4. 2441-97-6	CYCLOHEXENE, 3-CHLORO-	9.40	11	~~JNB~~ U	am
5. 79-34-5	ETHANE, 1,1,2,2-TETRACHLORO-	9.52	7	~~JNB~~ U	am
6.	UNKNOWN	10.37	75	~~BJ~~ U	am
7.	UNKNOWN	12.14	4	~~BJ~~ U	am
8.	UNKNOWN	12.75	3	~~BJ~~ U	am
9.	UNKNOWN	14.54	96	~~BJ~~ U	am
10.	UNKNOWN	14.64	12	~~BJ~~ U	am
11.	UNKNOWN	16.29	7	~~BJ~~ U	am
12.	UNKNOWN	18.37	5	~~BJ~~ U	am
13.	UNKNOWN	19.80	2	~~BJ~~ U	am
14.	UNKNOWN	22.52	10	~~BJ~~ U	am
15.	UNKNOWN	25.62	2	~~BJ~~ U	am
16.	UNKNOWN	29.02	4	~~BJ~~ U	am

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G203

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) WATER Lab Sample ID: D215813

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0507W08

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 04/16/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/08/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G203

\b Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) WATER Lab Sample ID: D215813

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0507W08

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 04/16/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/08/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G203

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) WATER Lab Sample ID: D215813

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0507W08

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 04/16/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/08/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 12

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1. 96-19-5	1-PROPENE, 1,2,3-TRICHLORO-	8.52	10	~~JNB~~ U	am
2.	UNKNOWN ALIP. ALCOHOL	8.90	7	~~BJ~~ U	am
3. 79-34-5	ETHANE, 1,1,2,2-TETRACHLORO-	9.52	5	~~JNB~~ U	am
4.	UNKNOWN	10.39	96	J	
5.	UNKNOWN	14.55	86 ~~86~~	~~BJ~~ U	am
6.	UNKNOWN	14.64	10 ~~10~~	~~BJ~~ U	am
7.	UNKNOWN	16.30	7	~~BJ~~ U	am
8.	UNKNOWN	18.39	3	~~BJ~~ U	am
9.	UNKNOWN	19.80	4	~~BJ~~ U	am
10.	UNKNOWN	22.54	10	~~BJ~~ U	am
11.	UNKNOWN	25.62	2	~~BJ~~ U	am
12.	UNKNOWN	29.02	4	~~BJ~~ U	am

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G204

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) WATER Lab Sample ID: D215822

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0507W10

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 04/16/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/08/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G204

ıb Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) WATER Lab Sample ID: D215822

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0507W10

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 04/16/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/08/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G204

b Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) WATER Lab Sample ID: D215822

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0507W10

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 04/16/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/08/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 18

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1.	UNKNOWN	8.10	36	~~BJ~~ U	am
2. 96-19-5	1-PROPENE, 1,2,3-TRICHLORO-	8.52	15	~~JNB~~ U	am
3.	UNKNOWN ALIP. ALCOHOL	8.90	12	~~BJ~~ U	am
4. 2441-97-6	CYCLOHEXENE, 3-CHLORO-	9.40	2	~~JNB~~ U	am
5. 79-34-5	ETHANE, 1,1,2,2-TETRACHLORO-	9.52	16	~~JNB~~ U	am
6.	UNKNOWN	10.39	100	~~BJ~~ U	am
7.	UNKNOWN	12.77	3	~~BJ~~ U	am
8.	UNKNOWN	14.55	110	~~BJ~~ U	am
9.	UNKNOWN	14.64	28	~~BJ~~ U	am
10.	UNKNOWN	16.30	16	~~BJ~~ U	am
11.	UNKNOWN	18.39	10	~~BJ~~ U	am
12.	UNKNOWN	19.80	5	~~BJ~~ U	am
13.	UNKNOWN	22.34	2	~~BJ~~ U	am
14.	UNKNOWN	22.54	20	~~BJ~~ U	am
15.	UNKNOWN	25.47	3	~~BJ~~ U	am
16.	UNKNOWN	25.62	4	~~BJ~~ U	am
17.	UNKNOWN	29.02	6	~~BJ~~ U	am
18.	UNKNOWN	31.44	2	~~BJ~~ U	am

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215815

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C0527W13

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: 20 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/27/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	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	980	
106-47-8	4-Chloroaniline	410	UJ
87-68-3	Hexachlorobutadiene	410	U
59-50-7	4-Chloro-3-Methylphenol	410	U
91-57-6	2-Methylnaphthalene	1200	
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	1000	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	410	U
208-96-8	Acenaphthylene	2000	E
606-20-2	2,6-Dinitrotoluene	410	U
99-09-2	3-Nitroaniline	1000	UJ
83-32-9	Acenaphthene	3100	E

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215815

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C0527W13

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: 20 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/27/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	3500	E
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	5600	E
100-10-6	4-Nitroaniline	1000	UJ
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	410	U
120-12-7	Anthracene	410	U
86-74-8	Carbazole	13000	E
84-74-2	Di-n-Butylphthalate	410	U
206-44-0	Fluoranthene	410	U
129-00-0	Pyrene	410	U
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	UJ
56-55-3	Benzo(a)Anthracene	410	U
218-01-9	Chrysene	410	U
117-81-7	bis(2-Ethylhexyl)Phthalate	13000	E
117-84-0	Di-n-Octyl Phthalate	410	UJ
205-99-2	Benzo(b)Fluoranthene	410	U
207-08-9	Benzo(k)Fluoranthene	410	U
50-32-8	Benzo(a)Pyrene	410	U
193-39-5	Indeno(1,2,3-cd)Pyrene	410	U
53-70-3	Dibenz(a,h)Anthracene	410	U
191-24-2	Benzo(g,h,i)Perylene	410	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215815

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C0527W13

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: 20 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/27/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 16

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN PNA	30.32	35000	J
2. 195-19-7	BENZO[C]PHENANTHRENE	33.17	43000	JN
3.	UNKNOWN PNA	33.27	38000	J
4.	UNKNOWN PNA	33.29	33000	J
5. 92-24-0	NAPHTHACENE	34.06	65000	JN
6. 195-19-7	BENZO[C]PHENANTHRENE	34.29	45000	JN
7.	UNKNOWN	34.49	21000	J
8.	UNKNOWN	34.64	24000	J
9. 1705-84-6	TRIPHENYLENE, 2-METHYL-	35.27	37000	JN
10.	UNKNOWN PNA	35.42	34000	J
11.	UNKNOWN PNA	35.81	27000	J
12.	UNKNOWN	38.29	18000	J
13.	UNKNOWN	38.32	46000	J
14. 205-82-3	BENZO[J]FLUORANTHENE	39.61	47000	JN
15.	UNKNOWN	39.82	1200	J
16. 207-08-9	BENZO[K]FLUORANTHENE	39.96	53000	JN

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101DL

b Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215815

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C0527W07

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: 20 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/27/92

Injection Volume: 2.0(uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	4100	U
111-44-4	bis(2-Chloroethyl)Ether	4100	U
95-57-8	2-Chlorophenol	4100	U
541-73-1	1,3-Dichlorobenzene	4100	U
106-46-7	1,4-Dichlorobenzene	4100	U
95-50-1	1,2-Dichlorobenzene	4100	U
95-48-7	2-Methylphenol	4100	U
108-60-1	2,2'-oxybis(1-Chloropropane)	4100	U
106-44-5	4-Methylphenol	4100	U
621-64-7	N-Nitroso-Di-n-Propylamine	4100	U
67-72-1	Hexachloroethane	4100	U
98-95-3	Nitrobenzene	4100	U
78-59-1	Isophorone	4100	U
88-75-5	2-Nitrophenol	4100	U
105-67-9	2,4-Dimethylphenol	4100	U
111-91-1	bis(2-Chloroethoxy)Methane	4100	U
120-83-2	2,4-Dichlorophenol	4100	U
120-82-1	1,2,4-Trichlorobenzene	4100	U
91-20-3	Naphthalene	810	J
106-47-8	4-Chloroaniline	4100	UJ
87-68-3	Hexachlorobutadiene	4100	U
59-50-7	4-Chloro-3-Methylphenol	4100	U
91-57-6	2-Methylnaphthalene	930	J
77-47-4	Hexachlorocyclopentadiene	4100	U
88-06-2	2,4,6-Trichlorophenol	4100	U
95-95-4	2,4,5-Trichlorophenol	10000	U
91-58-7	2-Chloronaphthalene	4100	U
88-74-4	2-Nitroaniline	10000	U
131-11-3	Dimethylphthalate	4100	U
208-96-8	Acenaphthylene	1100	J
606-20-2	2,6-Dinitrotoluene	4100	U
99-09-2	3-Nitroaniline	10000	UJ
83-32-9	Acenaphthene	2200	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101DL

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215815

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C0527W07

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: 20 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/27/92

Injection Volume: 2.0(uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	10000	U
100-02-7	4-Nitrophenol	10000	U
132-64-9	Dibenzofuran	2700	J
121-14-2	2,4-Dinitrotoluene	4100	U
84-66-2	Diethylphthalate	4100	U
7005-72-3	4-Chlorophenyl-phenylether	4100	U
86-73-7	Fluorene	4600	
100-10-6	4-Nitroaniline	10000	UJ
534-52-1	4,6-Dinitro-2-methylphenol	10000	U
86-30-6	N-Nitrosodiphenylamine (1)	4100	U
101-55-3	4-Bromophenyl-phenylether	4100	U
118-74-1	Hexachlorobenzene	4100	U
87-86-5	Pentachlorophenol	10000	U
85-01-8	Phenanthrene	14000	
120-12-7	Anthracene	8600	
86-74-8	Carbazole	2800	J
84-74-2	Di-n-Butylphthalate	4100	U
206-44-0	Fluoranthene	13000	
129-00-0	Pyrene	14000	
85-68-7	Butylbenzylphthalate	4100	U
91-94-1	3,3'-Dichlorobenzidine	4100	UJ
56-55-3	Benzo(a)Anthracene	16000	
218-01-9	Chrysene	15000	
117-81-7	bis(2-Ethylhexyl)Phthalate	1700	J
117-84-0	Di-n-Octyl Phthalate	4100	UJ
205-99-2	Benzo(b)Fluoranthene	13000	
207-08-9	Benzo(k)Fluoranthene	8400	
50-32-8	Benzo(a)Pyrene	14000	
193-39-5	Indeno(1,2,3-cd)Pyrene	9700	
53-70-3	Dibenz(a,h)Anthracene	4100	U
191-24-2	Benzo(g,h,i)Perylene	11000	

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X101DL

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215815

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C0527W07

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: 20 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/27/92

Injection Volume: 2.0(uL) Dilution Factor: 10.0

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

Number TICs found: 26

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	8.85	23000	~~B~~J
2. 613-12-7	ANTHRACENE, 2-METHYL-	27.37	4100	JN
3. 883-20-5	PHENANTHRENE, 9-METHYL-	27.46	5500	JN
4. 238-84-6	11H-BENZO[A]FLUORENE	31.12	8200	JN
5. 238-84-6	11H-BENZO[A]FLUORENE	31.31	4000	JN
6.	UNKNOWN	31.44	3600	J
7.	UNKNOWN	32.96	3600	J
8.	UNKNOWN PNA	33.04	4100	J
9. 203-12-3	BENZO[GHI]FLUORANTHENE	33.12	3600	JN
10.	UNKNOWN	33.12	2800	J
11.	UNKNOWN	33.22	2600	J
12.	UNKNOWN	34.07	4400	J
13.	UNKNOWN	34.26	1600	J
14.	UNKNOWN	34.42	2200	J
15.	UNKNOWN PNA	35.04	4600	J
16.	UNKNOWN PNA	35.19	3000	J
17.	UNKNOWN PNA	35.32	640	J
18.	UNKNOWN PNA	35.36	740	J
19.	UNKNOWN	35.42	1500	J
20.	UNKNOWN PNA	35.56	2200	J
21. 192-97-2	BENZO[E]PYRENE	38.22	4400	JN
22.	UNKNOWN	38.67	1300	J
23. 192-97-2	BENZO[E]PYRENE	39.07	15000	JN
24. 205-82-3	BENZO[J]FLUORANTHENE	39.76	5600	JN
25.	UNKNOWN PNA	41.21	2300	J
26.	UNKNOWN PNA	41.36	2100	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215817

Sample wt/vol: 30.2 (g/mL) G Lab File ID: B0508W09

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: 23 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/08/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	430	U
111-44-4	bis(2-Chloroethyl)Ether	430	U
95-57-8	2-Chlorophenol	430	U
541-73-1	1,3-Dichlorobenzene	430	U
106-46-7	1,4-Dichlorobenzene	430	U
95-50-1	1,2-Dichlorobenzene	430	U
95-48-7	2-Methylphenol	430	U
108-60-1	2,2'-oxybis(1-Chloropropane)	430	U
106-44-5	4-Methylphenol	430	U
621-64-7	N-Nitroso-Di-n-Propylamine	430	U
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
111-91-1	bis(2-Chloroethoxy)Methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
120-82-1	1,2,4-Trichlorobenzene	430	U
91-20-3	Naphthalene	430	U
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
59-50-7	4-Chloro-3-Methylphenol	430	U
91-57-6	2-Methylnaphthalene	430	U
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	1000	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	430	U
208-96-8	Acenaphthylene	430	U
606-20-2	2,6-Dinitrotoluene	430	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	430	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

b Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215817

Sample wt/vol: 30.2 (g/mL) G Lab File ID: B0508W09

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: 23 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/08/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	UJ
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	430	U
121-14-2	2,4-Dinitrotoluene	430	U
84-66-2	Diethylphthalate	430	U
7005-72-3	4-Chlorophenyl-phenylether	430	U
86-73-7	Fluorene	430	U
100-10-6	4-Nitroaniline	1000	UJ
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	430	U
101-55-3	4-Bromophenyl-phenylether	430	U
118-74-1	Hexachlorobenzene	430	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	430	U
120-12-7	Anthracene	430	U
86-74-8	Carbazole	430	U
84-74-2	Di-n-Butylphthalate	430	U
206-44-0	Fluoranthene	430	U
129-00-0	Pyrene	430	U
85-68-7	Butylbenzylphthalate	430	U
91-94-1	3,3'-Dichlorobenzidine	430	U
56-55-3	Benzo(a)Anthracene	430	U
218-01-9	Chrysene	430	U
117-81-7	bis(2-Ethylhexyl)Phthalate	1000	
117-84-0	Di-n-Octyl Phthalate	430	U
205-99-2	Benzo(b)Fluoranthene	430	U
207-08-9	Benzo(k)Fluoranthene	430	U
50-32-8	Benzo(a)Pyrene	430	U
193-39-5	Indeno(1,2,3-cd)Pyrene	430	U
53-70-3	Dibenz(a,h)Anthracene	430	U
191-24-2	Benzo(g,h,i)Perylene	430	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215817

Sample wt/vol: 30.2 (g/mL) G Lab File ID: B0508W09

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: 23 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/08/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.9

Number TICs found: 27

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1.	UNKNOWN	9.64	1100	J	
2.	UNKNOWN ALIP. KETONE	10.00	2500	~~B~~J	am
3.	UNKNOWN ALIP. KETONE	10.00	2600	~~B~~J	am
4.	UNKNOWN ALIP. KETONE	10.39	1100	~~BJ~~ U	am
5.	UNKNOWN	12.64	4000	J	
6.	UNKNOWN	14.97	310	J	
7.	UNKNOWN ALIP. ACID	21.85	600	J	
8.	UNKNOWN PHTHALATE	25.37	950	~~BJ~~ U	am
9.	UNKNOWN ALIP. ACID	26.37	3900	J	
10.	UNKNOWN	26.81	210	J	
11.	UNKNOWN	27.27	150	J	
12.	UNKNOWN	27.46	340	J	
13.	UNKNOWN	28.21	130	J	
14.	UNKNOWN	28.41	840	J	
15.	UNKNOWN	28.42	1100	J	
16.	UNKNOWN	28.62	790	J	
17.	UNKNOWN	30.14	170	J	
18.	UNKNOWN	30.29	360	J	
19.	UNKNOWN	30.52	330	J	
20.	UNKNOWN	30.87	640	J	
21.	UNKNOWN ALIP. ACID ESTER	31.07	180	J	
22.	UNKNOWN	31.31	120	J	
23.	UNKNOWN	32.06	310	J	
24.	UNKNOWN	33.21	150	J	
25.	UNKNOWN	35.32	240	J	
26.	UNKNOWN	43.39	3100	J	
27.	UNKNOWN	44.06	730	J	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA . Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215818

Sample wt/vol: 30.4 (g/mL) G Lab File ID: C0527W14

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: 20 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/27/92

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	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	1400	
106-47-8	4-Chloroaniline	410	UJ
87-68-3	Hexachlorobutadiene	410	U
59-50-7	4-Chloro-3-Methylphenol	410	U
91-57-6	2-Methylnaphthalene	220	J
77-47-4	Hexachlorocyclopentadiene	410	UJ
88-06-2	2,4,6-Trichlorophenol	410	UJ
95-95-4	2,4,5-Trichlorophenol	990	UJ
91-58-7	2-Chloronaphthalene	410	UJ
88-74-4	2-Nitroaniline	990	UJ
131-11-3	Dimethylphthalate	410	UJ
208-96-8	Acenaphthylene	260	J
606-20-2	2,6-Dinitrotoluene	410	U
99-09-2	3-Nitroaniline	990	UJ
83-32-9	Acenaphthene	410	UJ

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215818

Sample wt/vol: 30.4 (g/mL) G Lab File ID: C0527W14

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: 20 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/27/92

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	990	UJ
100-02-7	4-Nitrophenol	990	UJ
132-64-9	Dibenzofuran	410	UJ
121-14-2	2,4-Dinitrotoluene	410	UJ
84-66-2	Diethylphthalate	410	UJ
7005-72-3	4-Chlorophenyl-phenylether	410	UJ
86-73-7	Fluorene	410	UJ
100-10-6	4-Nitroaniline	990	UJ
534-52-1	4,6-Dinitro-2-methylphenol	990	U
86-30-6	N-Nitrosodiphenylamine (1)	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
87-86-5	Pentachlorophenol	990	U
85-01-8	Phenanthrene	1100	
120-12-7	Anthracene	410	U
86-74-8	Carbazole	410	UJ
84-74-2	Di-n-Butylphthalate	410	U
206-44-0	Fluoranthene	4800	E
129-00-0	Pyrene	410	U
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	UJ
56-55-3	Benzo(a)Anthracene	410	U
218-01-9	Chrysene	410	U
117-81-7	bis(2-Ethylhexyl)Phthalate	410	U
117-84-0	Di-n-Octyl Phthalate	410	UJ
205-99-2	Benzo(b)Fluoranthene	410	U
207-08-9	Benzo(k)Fluoranthene	410	U
50-32-8	Benzo(a)Pyrene	410	U
193-39-5	Indeno(1,2,3-cd)Pyrene	410	U
53-70-3	Dibenz(a,h)Anthracene	410	U
191-24-2	Benzo(g,h,i)Perylene	410	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215818

Sample wt/vol: 30.4 (g/mL) G Lab File ID: C0527W14

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: 20 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/27/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

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.

X103DL

b Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215818

Sample wt/vol: 30.4 (g/mL) G Lab File ID: C0527W08

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: 20 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/27/92

Injection Volume: 2.0(uL) Dilution Factor: 10.0

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	4100	U
111-44-4	bis(2-Chloroethyl)Ether	4100	U
95-57-8	2-Chlorophenol	4100	U
541-73-1	1,3-Dichlorobenzene	4100	U
106-46-7	1,4-Dichlorobenzene	4100	U
95-50-1	1,2-Dichlorobenzene	4100	U
95-48-7	2-Methylphenol	4100	U
108-60-1	2,2'-oxybis(1-Chloropropane)	4100	U
106-44-5	4-Methylphenol	4100	U
621-64-7	N-Nitroso-Di-n-Propylamine	4100	U
67-72-1	Hexachloroethane	4100	U
98-95-3	Nitrobenzene	4100	U
78-59-1	Isophorone	4100	U
88-75-5	2-Nitrophenol	4100	U
105-67-9	2,4-Dimethylphenol	4100	U
111-91-1	bis(2-Chloroethoxy)Methane	4100	U
120-83-2	2,4-Dichlorophenol	4100	U
120-82-1	1,2,4-Trichlorobenzene	4100	U
91-20-3	Naphthalene	1100	J
106-47-8	4-Chloroaniline	4100	UJ
87-68-3	Hexachlorobutadiene	4100	U
59-50-7	4-Chloro-3-Methylphenol	4100	U
91-57-6	2-Methylnaphthalene	4100	U
77-47-4	Hexachlorocyclopentadiene	4100	U
88-06-2	2,4,6-Trichlorophenol	4100	U
95-95-4	2,4,5-Trichlorophenol	9900	U
91-58-7	2-Chloronaphthalene	4100	U
88-74-4	2-Nitroaniline	9900	U
131-11-3	Dimethylphthalate	4100	U
208-96-8	Acenaphthylene	4100	U
606-20-2	2,6-Dinitrotoluene	4100	U
99-09-2	3-Nitroaniline	9900	UJ
83-32-9	Acenaphthene	4100	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103DL

b Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215818

Sample wt/vol: 30.4 (g/mL) G Lab File ID: C0527W08

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: 20 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/27/92

Injection Volume: 2.0(uL) Dilution Factor: 10.0

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	9900	U
100-02-7	4-Nitrophenol	9900	U
132-64-9	Dibenzofuran	4100	U
121-14-2	2,4-Dinitrotoluene	4100	U
84-66-2	Diethylphthalate	4100	U
7005-72-3	4-Chlorophenyl-phenylether	4100	U
86-73-7	Fluorene	4100	U
100-10-6	4-Nitroaniline	9900	UJ
534-52-1	4,6-Dinitro-2-methylphenol	9900	U
86-30-6	N-Nitrosodiphenylamine (1)	4100	U
101-55-3	4-Bromophenyl-phenylether	4100	U
118-74-1	Hexachlorobenzene	4100	U
87-86-5	Pentachlorophenol	9900	U
85-01-8	Phenanthrene	750	J
120-12-7	Anthracene	4100	U
86-74-8	Carbazole	4100	UJ
84-74-2	Di-n-Butylphthalate	4100	U
206-44-0	Fluoranthene	1500	J
129-00-0	Pyrene	1000	J
85-68-7	Butylbenzylphthalate	4100	U
91-94-1	3,3'-Dichlorobenzidine	4100	UJ
56-55-3	Benzo(a)Anthracene	790	J
218-01-9	Chrysene	4100	U
117-81-7	bis(2-Ethylhexyl)Phthalate	15000	
117-84-0	Di-n-Octyl Phthalate	4100	UJ
205-99-2	Benzo(b)Fluoranthene	1000	J
207-08-9	Benzo(k)Fluoranthene	750	J
50-32-8	Benzo(a)Pyrene	870	J
193-39-5	Indeno(1,2,3-cd)Pyrene	1100	J
53-70-3	Dibenz(a,h)Anthracene	4100	U
191-24-2	Benzo(g,h,i)Perylene	1400	J

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X103DL

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215818

Sample wt/vol: 30.4 (g/mL) G Lab File ID: C0527W08

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: 20 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/27/92

Injection Volume: 2.0(uL) Dilution Factor: 10.0

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

Number TICs found: 21

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. KETONE	8.89	22000	~~B~~J
2.	UNKNOWN ALIP. HYDROCARBON	9.70	8000	J
3.	UNKNOWN ALIP. HYDROCARBON	10.40	10000	JN
4.	UNKNOWN ALIP. HYDROCARBON	11.19	7800	J
5.	UNKNOWN ALIP. HYDROCARBON	11.22	7400	J
6.	UNKNOWN ALIP. HYDROCARBON	11.40	9300	J
7.	UNKNOWN ALIP. HYDROCARBON	11.70	7300	J
8.	UNKNOWN ALIP. HYDROCARBON	11.85	7600	J
9.	UNK. AROMATIC HYDROCARBON	11.90	4700	J
10.	UNK. AROMATIC HYDROCARBON	12.05	6000	J
11.	UNK. AROMATIC HYDROCARBON	12.64	7200	J
12.	UNKNOWN ALIP. HYDROCARBON	12.69	9900	J
13.	UNKNOWN ALIP. HYDROCARBON	13.17	7000	J
14.	UNKNOWN ALIP. HYDROCARBON	14.74	11000	J
15.	UNK. AROMATIC HYDROCARBON	15.29	5700	J
16.	UNKNOWN	27.54	27000	J
17.	UNK. ALIPHATIC ACID ESTER	29.62	23000	J
18.	UNKNOWN ALIP. ACID	29.82	14000	J
19.	UNKNOWN	31.96	4900	J
20.	UNKNOWN ALIP. ACID	32.21	9600	J
21.	UNKNOWN	33.29	18000	J

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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215816

Sample wt/vol: 30.7 (g/mL) G Lab File ID: B0508W10

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: 15 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/08/92

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	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	920	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	920	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	920	U
83-32-9	Acenaphthene	380	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215816

Sample wt/vol: 30.7 (g/mL) G Lab File ID: B0508W10

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: 15 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/08/92

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	920	UJ
100-02-7	4-Nitrophenol	920	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	920	UJ
534-52-1	4,6-Dinitro-2-methylphenol	920	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	920	U
85-01-8	Phenanthrene	87	J
120-12-7	Anthracene	380	U
86-74-8	Carbazole	380	U
84-74-2	Di-n-Butylphthalate	380	U
206-44-0	Fluoranthene	110	J
129-00-0	Pyrene	86	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	U
117-84-0	Di-n-Octyl Phthalate	120	J
205-99-2	Benzo(b)Fluoranthene	380	U
207-08-9	Benzo(k)Fluoranthene	380	U
50-32-8	Benzo(a)Pyrene	380	U
193-39-5	Indeno(1,2,3-cd)Pyrene	380	U
53-70-3	Dibenz(a,h)Anthracene	380	U
191-24-2	Benzo(g,h,i)Perylene	170	J

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X104

ab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215816

Sample wt/vol: 30.7 (g/mL) G Lab File ID: B0508W10

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: 15 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/08/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 8

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1.	UNKNOWN ALIP. KETONE	9.64	1000	~~BJ~~ U	am
2.	UNKNOWN ALIP. KETONE	10.40	1500	~~BJ~~ U	am
3.	UNKNOWN	12.64	890	J	
4.	UNKNOWN ALIP. ACID	21.85	750	J	
5.	UNKNOWN PHTHALATE	25.37	850	~~BJ~~ U	am
6.	UNKNOWN	26.07	130	J	
7.	UNKNOWN	27.22	94	J	
8.	UNKNOWN ALIP. ACID ESTER	31.07	130	~~BJ~~ U	am

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215814

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C0514W08

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: 37 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/14/92

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	1300	U
100-02-7	4-Nitrophenol	1300	U
132-64-9	Dibenzofuran	540	
121-14-2	2,4-Dinitrotoluene	520	U
84-66-2	Diethylphthalate	520	U
7005-72-3	4-Chlorophenyl-phenylether	520	U
86-73-7	Fluorene	370	J
100-10-6	4-Nitroaniline	1300	U
534-52-1	4,6-Dinitro-2-methylphenol	1300	U
86-30-6	N-Nitrosodiphenylamine (1)	520	U
101-55-3	4-Bromophenyl-phenylether	520	U
118-74-1	Hexachlorobenzene	520	U
87-86-5	Pentachlorophenol	1300	U
85-01-8	Phenanthrene	6500	E
120-12-7	Anthracene	1400	
86-74-8	Carbazole	520	U
84-74-2	Di-n-Butylphthalate	790	
206-44-0	Fluoranthene	12000	E
129-00-0	Pyrene	8800	E
85-68-7	Butylbenzylphthalate	520	U
91-94-1	3,3'-Dichlorobenzidine	520	U
56-55-3	Benzo(a)Anthracene	5200	E
218-01-9	Chrysene	520	U
117-81-7	bis(2-Ethylhexyl)Phthalate	5700	E
117-84-0	Di-n-Octyl Phthalate	520	U
205-99-2	Benzo(b)Fluoranthene	5200	E
207-08-9	Benzo(k)Fluoranthene	5300	E
50-32-8	Benzo(a)Pyrene	4100	
193-39-5	Indeno(1,2,3-cd)Pyrene	1100	
53-70-3	Dibenz(a,h)Anthracene	520	U
191-24-2	Benzo(g,h,i)Perylene	990	

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X105

ab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215814

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C0514W08

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: 37 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/14/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

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	9.42	13000	~~B~~J
2. 89-62-3	BENZENAMINE, 4-METHYL-2-NITR	22.37	5900	JN
3.	UNKNOWN PNA	27.87	2800	J
4.	UNKNOWN	29.42	2700	J
5.	UNKNOWN	30.07	2900	J
6.	UNKNOWN	30.56	1700	J
7.	UNKNOWN PNA	30.59	12000	J
8. 243-42-5	BENZO[B]NAPHTHO[2,3-D]FURAN	30.89	1800	JN
9.	UNKNOWN	31.47	320	J
10.	UNKNOWN PNA	31.56	3700	J
11.	UNKNOWN PNA	31.86	1800	J
12.	UNKNOWN PNA	32.16	1300	J
13.	UNKNOWN PNA	32.22	1400	J
14.	UNKNOWN	32.42	880	J
15.	UNKNOWN	32.82	1000	J
16.	UNKNOWN PNA	33.07	1600	J
17.	UNKNOWN	33.39	1400	J
18.	UNKNOWN	33.47	3200	J
19.	UNKNOWN ALIP. HYDROCARBON	33.52	2400	J
20. 203-12-3	BENZO[GHI]FLUORANTHENE	33.56	1700	JN
21.	UNKNOWN	33.56	1200	J
22.	UNKNOWN	33.67	460	J
23.	UNKNOWN	33.67	1400	J
24.	UNKNOWN	33.97	6000	J
25.	UNKNOWN PNA	34.27	7100	J
26.	UNKNOWN	34.54	1400	J

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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

ab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215814

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C0514W08

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: 37 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/14/92

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	520	U
111-44-4	bis(2-Chloroethyl)Ether	520	U
95-57-8	2-Chlorophenol	520	U
541-73-1	1,3-Dichlorobenzene	520	U
106-46-7	1,4-Dichlorobenzene	520	U
95-50-1	1,2-Dichlorobenzene	520	U
95-48-7	2-Methylphenol	520	U
108-60-1	2,2'-oxybis(1-Chloropropane)	520	U
106-44-5	4-Methylphenol	520	U
621-64-7	N-Nitroso-Di-n-Propylamine	520	U
67-72-1	Hexachloroethane	520	U
98-95-3	Nitrobenzene	520	U
78-59-1	Isophorone	520	U
88-75-5	2-Nitrophenol	520	U
105-67-9	2,4-Dimethylphenol	520	U
111-91-1	bis(2-Chloroethoxy)Methane	520	U
120-83-2	2,4-Dichlorophenol	520	U
120-82-1	1,2,4-Trichlorobenzene	520	U
91-20-3	Naphthalene	810	
106-47-8	4-Chloroaniline	520	U
87-68-3	Hexachlorobutadiene	520	U
59-50-7	4-Chloro-3-Methylphenol	520	U
91-57-6	2-Methylnaphthalene	1900	
77-47-4	Hexachlorocyclopentadiene	520	U
88-06-2	2,4,6-Trichlorophenol	520	U
95-95-4	2,4,5-Trichlorophenol	1300	U
91-58-7	2-Chloronaphthalene	520	U
88-74-4	2-Nitroaniline	1300	U
131-11-3	Dimethylphthalate	520	U
208-96-8	Acenaphthylene	730	
606-20-2	2,6-Dinitrotoluene	520	U
99-09-2	3-Nitroaniline	1300	U
83-32-9	Acenaphthene	150	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105DL

ab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215814

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C0527W04

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: 37 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/27/92

Injection Volume: 2.0(uL) Dilution Factor: 4.0

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	2100	U
111-44-4	bis(2-Chloroethyl)Ether	2100	U
95-57-8	2-Chlorophenol	2100	U
541-73-1	1,3-Dichlorobenzene	2100	U
106-46-7	1,4-Dichlorobenzene	2100	U
95-50-1	1,2-Dichlorobenzene	2100	U
95-48-7	2-Methylphenol	2100	U
108-60-1	2,2'-oxybis(1-Chloropropane)	2100	U
106-44-5	4-Methylphenol	2100	U
621-64-7	N-Nitroso-Di-n-Propylamine	2100	U
67-72-1	Hexachloroethane	2100	U
98-95-3	Nitrobenzene	2100	U
78-59-1	Isophorone	2100	U
88-75-5	2-Nitrophenol	2100	UJ
105-67-9	2,4-Dimethylphenol	2100	U
111-91-1	bis(2-Chloroethoxy)Methane	2100	U
120-83-2	2,4-Dichlorophenol	2100	U
120-82-1	1,2,4-Trichlorobenzene	2100	U
91-20-3	Naphthalene	500	J
106-47-8	4-Chloroaniline	2100	U
87-68-3	Hexachlorobutadiene	2100	U
59-50-7	4-Chloro-3-Methylphenol	2100	U
91-57-6	2-Methylnaphthalene	1000	J
77-47-4	Hexachlorocyclopentadiene	2100	U
88-06-2	2,4,6-Trichlorophenol	2100	U
95-95-4	2,4,5-Trichlorophenol	5100	U
91-58-7	2-Chloronaphthalene	2100	U
88-74-4	2-Nitroaniline	5100	U
131-11-3	Dimethylphthalate	2100	U
208-96-8	Acenaphthylene	2100	U
606-20-2	2,6-Dinitrotoluene	2100	U
99-09-2	3-Nitroaniline	5100	UR
83-32-9	Acenaphthene	2100	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105DL

ab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215814

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C0527W04

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: 37 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/27/92

Injection Volume: 2.0(uL) Dilution Factor: 4.0

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	5100	U
100-02-7	4-Nitrophenol	5100	U
132-64-9	Dibenzofuran	2100	U
121-14-2	2,4-Dinitrotoluene	2100	U
84-66-2	Diethylphthalate	2100	U
7005-72-3	4-Chlorophenyl-phenylether	2100	U
86-73-7	Fluorene	2100	U
100-10-6	4-Nitroaniline	5100	UJ
534-52-1	4,6-Dinitro-2-methylphenol	5100	U
86-30-6	N-Nitrosodiphenylamine (1)	2100	U
101-55-3	4-Bromophenyl-phenylether	2100	U
118-74-1	Hexachlorobenzene	2100	U
87-86-5	Pentachlorophenol	5100	U
85-01-8	Phenanthrene	4100	
120-12-7	Anthracene	720	J
86-74-8	Carbazole	2100	UJ
84-74-2	Di-n-Butylphthalate	2100	U
206-44-0	Fluoranthene	7500	
129-00-0	Pyrene	5500	
85-68-7	Butylbenzylphthalate	2100	U
91-94-1	3,3'-Dichlorobenzidine	2100	UJ
56-55-3	Benzo(a)Anthracene	2900	
218-01-9	Chrysene	2900	
117-81-7	bis(2-Ethylhexyl)Phthalate	2100	
117-84-0	Di-n-Octyl Phthalate	2100	UJ
205-99-2	Benzo(b)Fluoranthene	2800	
207-08-9	Benzo(k)Fluoranthene	2900	
50-32-8	Benzo(a)Pyrene	3400	
193-39-5	Indeno(1,2,3-cd)Pyrene	2800	
53-70-3	Dibenz(a,h)Anthracene	2100	U
191-24-2	Benzo(g,h,i)Perylene	3200	

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X105DL

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215814

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C0527W04

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: 37 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/27/92

Injection Volume: 2.0(uL) Dilution Factor: 4.0

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

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	8.90	16000	~~B~~J
2.	UNKNOWN ALIP. HYDROCARBON	24.37	2500	J
3.	UNKNOWN	29.06	1100	J
4.	UNKNOWN	29.71	1100	J
5.	UNKNOWN	31.11	230	J
6.	UNKNOWN PNA	31.16	1400	J
7.	UNKNOWN PNA	31.47	770	J
8.	UNKNOWN PNA	31.76	630	J
9.	UNKNOWN PNA	31.84	550	J
10.	UNKNOWN	32.46	480	J
11.	UNKNOWN	32.66	870	J
12.	UNKNOWN	32.99	820	J
13.	UNKNOWN	33.11	1400	J
14.	UNKNOWN	33.16	860	J
15.	UNKNOWN	33.27	910	J
16.	UNKNOWN	33.57	3900	J
17.	UNKNOWN PNA	34.09	590	J
18.	UNKNOWN	34.19	520	J
19.	UNKNOWN	35.59	370	J
20.	UNKNOWN	35.62	620	J
21.	UNKNOWN ALIP. HYDROCARBON	38.09	1200	J
22.	UNKNOWN PNA	38.24	1400	J
23.	UNKNOWN PNA	39.07	3400	J
24.	UNKNOWN PNA	39.76	1200	J
25.	UNKNOWN ALIP. HYDROCARBON	42.11	1400	J
26.	UNKNOWN	44.54	770	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215819

Sample wt/vol: 30.3 (g/mL) G Lab File ID: B0508W12

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: 26 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/08/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	440	U
111-44-4	bis(2-Chloroethyl)Ether	440	U
95-57-8	2-Chlorophenol	440	U
541-73-1	1,3-Dichlorobenzene	440	U
106-46-7	1,4-Dichlorobenzene	440	U
95-50-1	1,2-Dichlorobenzene	440	U
95-48-7	2-Methylphenol	440	U
108-60-1	2,2'-oxybis(1-Chloropropane)	440	U
106-44-5	4-Methylphenol	440	U
621-64-7	N-Nitroso-Di-n-Propylamine	440	U
67-72-1	Hexachloroethane	440	U
98-95-3	Nitrobenzene	440	U
78-59-1	Isophorone	440	U
88-75-5	2-Nitrophenol	440	U
105-67-9	2,4-Dimethylphenol	440	U
111-91-1	bis(2-Chloroethoxy)Methane	440	U
120-83-2	2,4-Dichlorophenol	440	U
120-82-1	1,2,4-Trichlorobenzene	440	U
91-20-3	Naphthalene	440	U
106-47-8	4-Chloroaniline	440	U
87-68-3	Hexachlorobutadiene	440	U
59-50-7	4-Chloro-3-Methylphenol	440	U
91-57-6	2-Methylnaphthalene	440	U
77-47-4	Hexachlorocyclopentadiene	440	U
88-06-2	2,4,6-Trichlorophenol	440	U
95-95-4	2,4,5-Trichlorophenol	1100	U
91-58-7	2-Chloronaphthalene	440	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	440	U
208-96-8	Acenaphthylene	440	U
606-20-2	2,6-Dinitrotoluene	440	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	440	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215819

Sample wt/vol: 30.3 (g/mL) G Lab File ID: B0508W12

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: 26 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/08/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	UJ
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	440	U
121-14-2	2,4-Dinitrotoluene	440	U
84-66-2	Diethylphthalate	440	U
7005-72-3	4-Chlorophenyl-phenylether	440	U
86-73-7	Fluorene	440	U
100-10-6	4-Nitroaniline	1100	UJ
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-Nitrosodiphenylamine (1)	440	U
101-55-3	4-Bromophenyl-phenylether	440	U
118-74-1	Hexachlorobenzene	440	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	440	U
120-12-7	Anthracene	440	U
86-74-8	Carbazole	440	U
84-74-2	Di-n-Butylphthalate	440	U
206-44-0	Fluoranthene	440	U
129-00-0	Pyrene	440	U
85-68-7	Butylbenzylphthalate	440	U
91-94-1	3,3'-Dichlorobenzidine	440	U
56-55-3	Benzo(a)Anthracene	440	U
218-01-9	Chrysene	440	U
117-81-7	bis(2-Ethylhexyl)Phthalate	440	U
117-84-0	Di-n-Octyl Phthalate	440	U
205-99-2	Benzo(b)Fluoranthene	440	U
207-08-9	Benzo(k)Fluoranthene	440	U
50-32-8	Benzo(a)Pyrene	440	U
193-39-5	Indeno(1,2,3-cd)Pyrene	440	U
53-70-3	Dibenz(a,h)Anthracene	440	U
191-24-2	Benzo(g,h,i)Perylene	440	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X106

ab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215819

Sample wt/vol: 30.3 (g/mL) G Lab File ID: B0508W12

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: 26 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/08/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 14

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1. 79-34-5	ETHANE, 1,1,2,2-TETRACHLORO-	9.57	190	~~JNB~~ U	am
2.	UNKNOWN	9.67	1200	J	
3.	UNKNOWN	10.00	910	J	
4.	UNKNOWN	10.00	910	J	
5.	UNKNOWN ALIP. KETONE	10.40	970	~~BJ~~ U	am
6.	UNKNOWN	12.69	2200	J	
7.	UNKNOWN	14.99	220	J	
8.	UNKNOWN ALIP. ACID	21.87	380	J	
9.	UNKNOWN PHTHALATE	25.37	1100	~~BJ~~ U	am
10.	UNKNOWN	26.34	420	~~BJ~~ U	am
11.	UNKNOWN	32.02	190	J	
12.	UNKNOWN	37.99	140	J	
13.	UNKNOWN	43.43	2500	J	
14.	UNKNOWN	44.08	420	J	

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107

ab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215820

Sample wt/vol: 30.3 (g/mL) G Lab File ID: B0508W11

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: 22 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/08/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	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.

X107

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215820

Sample wt/vol: 30.3 (g/mL) G Lab File ID: B0508W11

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: 22 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/08/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	UJ
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	420	U
206-44-0	Fluoranthene	99	J
129-00-0	Pyrene	110	J
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)Anthracene	420	U
218-01-9	Chrysene	420	U
117-81-7	bis(2-Ethylhexyl)Phthalate	420	U
117-84-0	Di-n-Octyl Phthalate	420	U
205-99-2	Benzo(b)Fluoranthene	100	J
207-08-9	Benzo(k)Fluoranthene	420	U
50-32-8	Benzo(a)Pyrene	420	U
193-39-5	Indeno(1,2,3-cd)Pyrene	420	U
53-70-3	Dibenz(a,h)Anthracene	420	U
191-24-2	Benzo(g,h,i)Perylene	420	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X107

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215820

Sample wt/vol: 30.3 (g/mL) G Lab File ID: B0508W11

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: 22 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/08/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 12

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1.	UNKNOWN KETONE	9.60	940	~~BJ~~ U	am
2.	UNKNOWN	9.97	630	J	
3.	UNKNOWN	9.97	640	J	
4.	UNKNOWN KETONE	10.35	870	~~BJ~~ U	am
5.	UNKNOWN	12.64	1900	J	
6.	UNKNOWN	14.94	260	J	
7.	UNKNOWN ALIP. ACID	21.82	210	J	
8.	UNKNOWN PHTHALATE	25.34	880	~~BJ~~ U	am
9.	UNKNOWN	26.29	220	~~BJ~~ U	am
10.	UNKNOWN ALIP. ACID ESTER	31.04	160	~~BJ~~ U	am
11.	UNKNOWN	31.99	200	J	
12.	UNKNOWN	43.36	1400	J	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X108

ab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215810

Sample wt/vol: 30.3 (g/mL) G Lab File ID: C0527W09

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: 42 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/27/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	560	U
111-44-4	bis(2-Chloroethyl)Ether	560	U
95-57-8	2-Chlorophenol	560	U
541-73-1	1,3-Dichlorobenzene	560	U
106-46-7	1,4-Dichlorobenzene	560	U
95-50-1	1,2-Dichlorobenzene	560	U
95-48-7	2-Methylphenol	560	U
108-60-1	2,2'-oxybis(1-Chloropropane)	560	U
106-44-5	4-Methylphenol	560	U
621-64-7	N-Nitroso-Di-n-Propylamine	560	U
67-72-1	Hexachloroethane	560	U
98-95-3	Nitrobenzene	560	U
78-59-1	Isophorone	560	U
88-75-5	2-Nitrophenol	560	U
105-67-9	2,4-Dimethylphenol	560	U
111-91-1	bis(2-Chloroethoxy)Methane	560	U
120-83-2	2,4-Dichlorophenol	560	U
120-82-1	1,2,4-Trichlorobenzene	560	U
91-20-3	Naphthalene	350	J
106-47-8	4-Chloroaniline	560	UJ
87-68-3	Hexachlorobutadiene	560	U
59-50-7	4-Chloro-3-Methylphenol	560	U
91-57-6	2-Methylnaphthalene	700	
77-47-4	Hexachlorocyclopentadiene	560	U
88-06-2	2,4,6-Trichlorophenol	560	U
95-95-4	2,4,5-Trichlorophenol	1400	U
91-58-7	2-Chloronaphthalene	560	U
88-74-4	2-Nitroaniline	1400	U
131-11-3	Dimethylphthalate	560	U
208-96-8	Acenaphthylene	260	J
606-20-2	2,6-Dinitrotoluene	560	U
99-09-2	3-Nitroaniline	1400	UJ
83-32-9	Acenaphthene	560	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X108

ab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215810

Sample wt/vol: 30.3 (g/mL) G Lab File ID: C0527W09

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: 42 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/27/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1400	U
100-02-7	4-Nitrophenol	1400	U
132-64-9	Dibenzofuran	210	J
121-14-2	2,4-Dinitrotoluene	560	U
84-66-2	Diethylphthalate	560	U
7005-72-3	4-Chlorophenyl-phenylether	560	U
86-73-7	Fluorene	130	J
100-10-6	4-Nitroaniline	1400	UJ
534-52-1	4,6-Dinitro-2-methylphenol	1400	U
86-30-6	N-Nitrosodiphenylamine (1)	560	U
101-55-3	4-Bromophenyl-phenylether	560	U
118-74-1	Hexachlorobenzene	560	U
87-86-5	Pentachlorophenol	1400	U
85-01-8	Phenanthrene	1200	
120-12-7	Anthracene	420	J
86-74-8	Carbazole	260	J
84-74-2	Di-n-Butylphthalate	1700	
206-44-0	Fluoranthene	1200	
129-00-0	Pyrene	1400	
85-68-7	Butylbenzylphthalate	560	U
91-94-1	3,3'-Dichlorobenzidine	560	UJ
56-55-3	Benzo(a)Anthracene	1200	
218-01-9	Chrysene	1600	
117-81-7	bis(2-Ethylhexyl)Phthalate	2000	
117-84-0	Di-n-Octyl Phthalate	130	J
205-99-2	Benzo(b)Fluoranthene	2300	
207-08-9	Benzo(k)Fluoranthene	1600	
50-32-8	Benzo(a)Pyrene	1600	
193-39-5	Indeno(1,2,3-cd)Pyrene	1200	
53-70-3	Dibenz(a,h)Anthracene	380	J
191-24-2	Benzo(g,h,i)Perylene	1300	

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X108

ab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215810

Sample wt/vol: 30.3 (g/mL) G Lab File ID: C0527W09

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: 42 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/27/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 27

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. KETONE	9.07	8400	~~B~~J
2.	UNKNOWN ALIP. HYDROCARBON	9.72	1200	J
3. 89-62-3	BENZENAMINE, 4-METHYL-2-NITR	22.02	5800	JN
4.	UNKNOWN PNA	27.49	590	J
5.	UNKNOWN	27.54	2100	J
6.	UNKNOWN	29.04	2800	J
7.	UNKNOWN	29.71	2900	J
8.	UNKNOWN ALIP. HYDROCARBON	32.24	950	J
9.	UNKNOWN	33.01	470	J
10.	UNKNOWN PNA	33.09	460	J
11.	UNKNOWN PNA	33.16	350	J
12.	UNKNOWN ALIP. HYDROCARBON	33.21	1900	J
13.	UNKNOWN	33.27	400	J
14.	UNKNOWN ALIP. HYDROCARBON	34.19	980	J
15.	UNKNOWN	34.22	350	J
16.	UNKNOWN PNA	35.09	400	J
17.	UNKNOWN	35.14	590	J
18.	UNKNOWN ALIP. HYDROCARBON	35.31	1500	J
19.	UNKNOWN	35.37	130	J
20.	UNKNOWN	35.61	230	J
21.	UNKNOWN	35.66	2200	J
22.	UNKNOWN	35.69	220	J
23.	UNKNOWN ALIP. HYDROCARBON	36.61	810	J
24.	UNKNOWN	37.84	250	J
25.	UNKNOWN ALIP. HYDROCARBON	38.14	4100	J
26.	UNKNOWN	38.26	1900	J
27.	UNKNOWN ALIP. HYDROCARBON	42.19	4300	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X109

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215811

Sample wt/vol: 30.4 (g/mL) G Lab File ID: C0514W06

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: 23 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/14/92

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	48	J
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	49	J
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.

X109

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215811

Sample wt/vol: 30.4 (g/mL) G Lab File ID: C0514W06

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: 23 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/14/92

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	U
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	320	J
120-12-7	Anthracene	44	J
86-74-8	Carbazole	420	U
84-74-2	Di-n-Butylphthalate	100	J
206-44-0	Fluoranthene	980	
129-00-0	Pyrene	560	
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)Anthracene	310	J
218-01-9	Chrysene	420	U
117-81-7	bis(2-Ethylhexyl)Phthalate	5900	E
117-84-0	Di-n-Octyl Phthalate	420	U
205-99-2	Benzo(b)Fluoranthene	660	
207-08-9	Benzo(k)Fluoranthene	450	
50-32-8	Benzo(a)Pyrene	330	J
193-39-5	Indeno(1,2,3-cd)Pyrene	140	J
53-70-3	Dibenz(a,h)Anthracene	420	U
191-24-2	Benzo(g,h,i)Perylene	190	J

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X109

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215811

Sample wt/vol: 30.4 (g/mL) G Lab File ID: C0514W06

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: 23 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/14/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3

Number TICs found: 18

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. KETONE	9.37	13000	~~B~~J
2.	UNKNOWN	33.32	250	J
3.	UNKNOWN PNA	33.42	170	J
4.	UNKNOWN ALIP. HYDROCARBON	33.49	1000	J
5.	UNKNOWN PNA	33.61	210	J
6.	UNKNOWN	33.62	59	J
7.	UNKNOWN	33.69	73	J
8.	UNKNOWN	33.87	90	J
9.	UNKNOWN	34.49	140	J
10.	UNKNOWN ALIP. ALCOHOL	34.52	290	J
11.	UNKNOWN	34.89	100	J
12.	UNKNOWN PHTHALATE	35.21	270	~~B~~J
13.	UNKNOWN PNA	35.51	190	J
14.	UNKNOWN ALIP. HYDROCARBON	35.69	840	J
15.	UNKNOWN	36.01	230	J
16.	UNKNOWN	36.16	180	J
17.	UNKNOWN ALIP. HYDROCARBON	38.64	5200	J
18.	UNKNOWN	38.76	3600	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X109DL

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215811

Sample wt/vol: 30.4 (g/mL) G Lab File ID: C0527W03

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: 23 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/27/92

Injection Volume: 2.0(uL) Dilution Factor: 2.0

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	850	U
111-44-4	bis(2-Chloroethyl)Ether	850	U
95-57-8	2-Chlorophenol	850	U
541-73-1	1,3-Dichlorobenzene	850	U
106-46-7	1,4-Dichlorobenzene	850	U
95-50-1	1,2-Dichlorobenzene	850	U
95-48-7	2-Methylphenol	850	U
108-60-1	2,2'-oxybis(1-Chloropropane)	850	U
106-44-5	4-Methylphenol	850	U
621-64-7	N-Nitroso-Di-n-Propylamine	850	U
67-72-1	Hexachloroethane	850	U
98-95-3	Nitrobenzene	850	U
78-59-1	Isophorone	850	U
88-75-5	2-Nitrophenol	850	UJ
105-67-9	2,4-Dimethylphenol	850	U
111-91-1	bis(2-Chloroethoxy)Methane	850	U
120-83-2	2,4-Dichlorophenol	850	U
120-82-1	1,2,4-Trichlorobenzene	850	U
91-20-3	Naphthalene	850	U
106-47-8	4-Chloroaniline	850	U
87-68-3	Hexachlorobutadiene	850	U
59-50-7	4-Chloro-3-Methylphenol	850	U
91-57-6	2-Methylnaphthalene	850	U
77-47-4	Hexachlorocyclopentadiene	850	U
88-06-2	2,4,6-Trichlorophenol	850	U
95-95-4	2,4,5-Trichlorophenol	2100	U
91-58-7	2-Chloronaphthalene	850	U
88-74-4	2-Nitroaniline	2100	U
131-11-3	Dimethylphthalate	850	U
208-96-8	Acenaphthylene	850	U
606-20-2	2,6-Dinitrotoluene	850	U
99-09-2	3-Nitroaniline	2100	UR
83-32-9	Acenaphthene	850	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X109DL

ab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215811

Sample wt/vol: 30.4 (g/mL) G Lab File ID: C0527W03

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: 23 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/27/92

Injection Volume: 2.0(uL) Dilution Factor: 2.0

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	2100	U
100-02-7	4-Nitrophenol	2100	U
132-64-9	Dibenzofuran	850	U
121-14-2	2,4-Dinitrotoluene	850	U
84-66-2	Diethylphthalate	850	U
7005-72-3	4-Chlorophenyl-phenylether	850	U
86-73-7	Fluorene	850	U
100-10-6	4-Nitroaniline	2100	UJ
534-52-1	4,6-Dinitro-2-methylphenol	2100	U
86-30-6	N-Nitrosodiphenylamine (1)	850	U
101-55-3	4-Bromophenyl-phenylether	850	U
118-74-1	Hexachlorobenzene	850	U
87-86-5	Pentachlorophenol	2100	U
85-01-8	Phenanthrene	230	J
120-12-7	Anthracene	850	U
86-74-8	Carbazole	850	UJ
84-74-2	Di-n-Butylphthalate	850	U
206-44-0	Fluoranthene	610	J
129-00-0	Pyrene	380	J
85-68-7	Butylbenzylphthalate	850	U
91-94-1	3,3'-Dichlorobenzidine	850	UJ
56-55-3	Benzo(a)Anthracene	240	J
218-01-9	Chrysene	400	J
117-81-7	bis(2-Ethylhexyl)Phthalate	4000	
117-84-0	Di-n-Octyl Phthalate	850	UJ
205-99-2	Benzo(b)Fluoranthene	430	J
207-08-9	Benzo(k)Fluoranthene	320	J
50-32-8	Benzo(a)Pyrene	340	J
193-39-5	Indeno(1,2,3-cd)Pyrene	470	J
53-70-3	Dibenz(a,h)Anthracene	850	U
191-24-2	Benzo(g,h,i)Perylene	750	J

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X109DL

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215811

Sample wt/vol: 30.4 (g/mL) G Lab File ID: C0527W03

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: 23 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/27/92

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.3

Number TICs found: 17

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1.	UNKNOWN ALIP. KETONE	8.15	1800	~~B~~J	am
2.	UNKNOWN ALIP. KETONE	8.94	9000	~~B~~J	am
3.	UNKNOWN ALIP. KETONE	12.42	1800	~~B~~J	am
4.	UNKNOWN	13.69	1400	J	
5.	UNKNOWN ALIP. HYDROCARBON	33.17	420	J	
6.	UNKNOWN ALIP. HYDROCARBON	35.26	430	J	
7.	UNKNOWN PHTHALATE	37.39	160	J	
8.	UNKNOWN	37.86	260	J	
9.	UNKNOWN ALIP. HYDROCARBON	38.07	1400	J	
10.	UNKNOWN	38.24	1100	J	
11.	UNKNOWN	39.06	810	J	
12.	UNKNOWN ALIP. HYDROCARBON	42.11	1500	J	
13.	UNKNOWN	42.44	310	J	
14.	UNKNOWN	43.14	440	J	
15.	UNKNOWN	43.14	410	J	
16.	UNKNOWN	48.28	240	J	
17.	UNKNOWN	50.76	590	J	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X110RE

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215812

Sample wt/vol: 30.1 (g/mL) G Lab File ID: C0527W11

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: 17 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/27/92

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	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	78	J
106-47-8	4-Chloroaniline	400	UJ
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-Methylphenol	400	U
91-57-6	2-Methylnaphthalene	240	J
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	UJ
83-32-9	Acenaphthene	400	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X110RE

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215812

Sample wt/vol: 30.1 (g/mL) G Lab File ID: C0527W11

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: 17 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/27/92

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	960	U
100-02-7	4-Nitrophenol	960	U
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
86-73-7	Fluorene	400	U
100-10-6	4-Nitroaniline	960	UJ
534-52-1	4,6-Dinitro-2-methylphenol	960	U
86-30-6	N-Nitrosodiphenylamine (1)	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	960	U
85-01-8	Phenanthrene	360	J
120-12-7	Anthracene	400	U
86-74-8	Carbazole	400	UJ
84-74-2	Di-n-Butylphthalate	46	J
206-44-0	Fluoranthene	93	J
129-00-0	Pyrene	270	J
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	UJ
56-55-3	Benzo(a)Anthracene	91	J
218-01-9	Chrysene	200	J
117-81-7	bis(2-Ethylhexyl)Phthalate	400	U
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	U
53-70-3	Dibenz(a,h)Anthracene	400	U
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.

X110RE

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215812

Sample wt/vol: 30.1 (g/mL) G Lab File ID: C0527W11

Level: (low/med) LOW Date Received: 04/14/92

% Moisture: 17 decanted: (Y/N) N Date Extracted: 04/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/27/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 19

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALIP. KETONE	9.14	4800	~~B~~J
2.	UNKNOWN PNA	33.04	400	J
3.	UNKNOWN ALIP. HYDROCARBON	33.24	710	J
4.	UNKNOWN PNA	33.32	270	J
5.	UNKNOWN PNA	33.39	280	J
6.	UNKNOWN PNA	34.17	230	J
7.	UNKNOWN ALIP. HYDROCARBON	34.24	350	J
8.	UNKNOWN PNA	34.49	120	J
9.	UNKNOWN	34.67	210	J
10.	UNKNOWN	34.89	100	J
11.	UNKNOWN PNA	35.16	300	J
12.	UNKNOWN PNA	35.31	130	J
13.	UNKNOWN ALIP. HYDROCARBON	35.36	520	J
14.	UNKNOWN PNA	35.49	120	J
15.	UNKNOWN	35.79	100	J
16.	UNKNOWN ALIP. HYDROCARBON	36.66	310	J
17.	UNKNOWN	37.31	650	J
18.	UNKNOWN ALIP. HYDROCARBON	38.21	1700	J
19.	UNKNOWN	38.32	1400	J

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1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G201

Lab Name: ILLINOIS EPA Contract: 68D00163

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) WATER Lab Sample ID: D215808

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

% Moisture: _____ decanted: (Y/N) ___ Date Received: 04/14/92

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 04/16/92

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/25/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	UJ
319-85-7	beta-BHC	0.050	UJ
319-86-8	delta-BHC	0.050	UJ
58-89-9	gamma-BHC (Lindane)	0.050	UJ
76-44-8	Heptachlor	0.050	UJ
309-00-2	Aldrin	0.050	UJ
1024-57-3	Heptachlor epoxide	0.050	UJ
959-98-8	Endosulfan I	0.050	UJ
60-57-1	Dieldrin	0.10	UJ
72-55-9	4,4'-DDE	0.10	UJ
72-20-8	Endrin	0.10	UJ
33213-65-9	Endosulfan II	0.10	UJ
72-54-8	4,4'-DDD	0.10	UJ
1031-07-8	Endosulfan sulfate	0.10	UJ
50-29-3	4,4'-DDT	0.10	UJ
72-43-5	Methoxychlor	0.50	UJ
53494-70-5	Endrin ketone	0.10	UJ
7421-36-3	Endrin aldehyde	0.10	UJ
5103-71-9	alpha-Chlordane	0.050	UJ
5103-74-2	gamma-Chlordane	0.050	UJ
8001-35-2	Toxaphene	5.0	UJ
12674-11-2	Aroclor-1016	1.0	UJ
11104-28-2	Aroclor-1221	2.0	UJ
11141-16-5	Aroclor-1232	1.0	UJ
53469-21-9	Aroclor-1242	1.0	UJ
12672-29-6	Aroclor-1248	1.0	UJ
11097-69-1	Aroclor-1254	1.0	UJ
11096-82-5	Aroclor-1260	1.0	UJ

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G202

Lab Name: ILLINOIS EPA Contract: 68D00163

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) WATER Lab Sample ID: D215821

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

% Moisture: _____ decanted: (Y/N) ___ Date Received: 04/14/92

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 04/16/92

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/25/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	UJ
319-85-7	beta-BHC	0.050	UJ
319-86-8	delta-BHC	0.050	UJ
58-89-9	gamma-BHC (Lindane)	0.050	UJ
76-44-8	Heptachlor	0.050	UJ
309-00-2	Aldrin	0.050	UJ
1024-57-3	Heptachlor epoxide	0.050	UJ
959-98-8	Endosulfan I	0.050	UJ
60-57-1	Dieldrin	0.10	UJ
72-55-9	4,4'-DDE	0.10	UJ
72-20-8	Endrin	0.10	UJ
33213-65-9	Endosulfan II	0.10	UJ
72-54-8	4,4'-DDD	0.10	UJ
1031-07-8	Endosulfan sulfate	0.10	UJ
50-29-3	4,4'-DDT	0.10	UJ
72-43-5	Methoxychlor	0.50	UJ
53494-70-5	Endrin ketone	0.10	UJ
7421-36-3	Endrin aldehyde	0.10	UJ
5103-71-9	alpha-Chlordane	0.050	UJ
5103-74-2	gamma-Chlordane	0.050	UJ
8001-35-2	Toxaphene	5.0	UJ
12674-11-2	Aroclor-1016	1.0	UJ
11104-28-2	Aroclor-1221	2.0	UJ
11141-16-5	Aroclor-1232	1.0	UJ
53469-21-9	Aroclor-1242	1.0	UJ
12672-29-6	Aroclor-1248	1.0	UJ
11097-69-1	Aroclor-1254	1.0	UJ
11096-82-5	Aroclor-1260	1.0	UJ

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G203

Lab Name: ILLINOIS EPA Contract: 68D00163

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) WATER Lab Sample ID: D215813

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

% Moisture: _____ decanted: (Y/N) ___ Date Received: 04/14/92

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 04/16/92

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/25/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	UJ
319-85-7	beta-BHC	0.050	UJ
319-86-8	delta-BHC	0.050	UJ
58-89-9	gamma-BHC (Lindane)	0.050	UJ
76-44-8	Heptachlor	0.050	UJ
309-00-2	Aldrin	0.050	UJ
1024-57-3	Heptachlor epoxide	0.050	UJ
959-98-8	Endosulfan I	0.050	UJ
60-57-1	Dieldrin	0.10	UJ
72-55-9	4,4'-DDE	0.10	UJ
72-20-8	Endrin	0.10	UJ
33213-65-9	Endosulfan II	0.10	UJ
72-54-8	4,4'-DDD	0.10	UJ
1031-07-8	Endosulfan sulfate	0.10	UJ
50-29-3	4,4'-DDT	0.10	UJ
72-43-5	Methoxychlor	0.50	UJ
53494-70-5	Endrin ketone	0.10	UJ
7421-36-3	Endrin aldehyde	0.10	UJ
5103-71-9	alpha-Chlordane	0.050	UJ
5103-74-2	gamma-Chlordane	0.050	UJ
8001-35-2	Toxaphene	5.0	UJ
12674-11-2	Aroclor-1016	1.0	UJ
11104-28-2	Aroclor-1221	2.0	UJ
11141-16-5	Aroclor-1232	1.0	UJ
53469-21-9	Aroclor-1242	1.0	UJ
12672-29-6	Aroclor-1248	1.0	UJ
11097-69-1	Aroclor-1254	1.0	UJ
11096-82-5	Aroclor-1260	1.0	UJ

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G204

Lab Name: ILLINOIS EPA Contract: 68D00163

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) WATER Lab Sample ID: D215822

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

% Moisture: _____ decanted: (Y/N) ___ Date Received: 04/14/92

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 04/16/92

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 06/25/92

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	UJ
319-85-7	beta-BHC	0.050	UJ
319-86-8	delta-BHC	0.050	UJ
58-89-9	gamma-BHC (Lindane)	0.050	UJ
76-44-8	Heptachlor	0.050	UJ
309-00-2	Aldrin	0.050	UJ
1024-57-3	Heptachlor epoxide	0.050	UJ
959-98-8	Endosulfan I	0.050	UJ
60-57-1	Dieldrin	0.10	UJ
72-55-9	4,4'-DDE	0.10	UJ
72-20-8	Endrin	0.10	UJ
33213-65-9	Endosulfan II	0.10	UJ
72-54-8	4,4'-DDD	0.10	UJ
1031-07-8	Endosulfan sulfate	0.10	UJ
50-29-3	4,4'-DDT	0.10	UJ
72-43-5	Methoxychlor	0.50	UJ
53494-70-5	Endrin ketone	0.10	UJ
7421-36-3	Endrin aldehyde	0.10	UJ
5103-71-9	alpha-Chlordane	0.050	UJ
5103-74-2	gamma-Chlordane	0.050	UJ
8001-35-2	Toxaphene	5.0	UJ
12674-11-2	Aroclor-1016	1.0	UJ
11104-28-2	Aroclor-1221	2.0	UJ
11141-16-5	Aroclor-1232	1.0	UJ
53469-21-9	Aroclor-1242	1.0	UJ
12672-29-6	Aroclor-1248	1.0	UJ
11097-69-1	Aroclor-1254	1.0	UJ
11096-82-5	Aroclor-1260	1.0	UJ

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101DL

Lab Name: ILLINOIS EPA Contract: 68D00163

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) SOIL Lab Sample ID: D215815

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

% Moisture: 20 decanted: (Y/N) N Date Received: 04/14/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/22/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/25/92

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	21	UJ
319-85-7	beta-BHC	21	U
319-86-8	delta-BHC	21	UJ
58-89-9	gamma-BHC (Lindane)	21	UJ
76-44-8	Heptachlor	9.1	JPD
309-00-2	Aldrin	9.5	JPD
1024-57-3	Heptachlor epoxide	21	U
959-98-8	Endosulfan I	21	U
60-57-1	Dieldrin	21	JPD
72-55-9	4,4'-DDE	41	UJ
72-20-8	Endrin	12	JPD
33213-65-9	Endosulfan II	34	JPD
72-54-8	4,4'-DDD	41	UJ
1031-07-8	Endosulfan sulfate	41	U
50-29-3	4,4'-DDT	16	JPD
72-43-5	Methoxychlor	31	JPD
53494-70-5	Endrin ketone	41	UJ
7421-36-3	Endrin aldehyde	41	UJ
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	830	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	250	JPD
11096-82-5	Aroclor-1260	410	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102DL

Lab Name: ILLINOIS EPA Contract: 68D00163

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) SOIL Lab Sample ID: D215817

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

% Moisture: 23 decanted: (Y/N) N Date Received: 04/14/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/22/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/25/92

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 5.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	22	UJ
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	UJ
58-89-9	gamma-BHC (Lindane)	22	UJ
76-44-8	Heptachlor	22	U
309-00-2	Aldrin	22	U
1024-57-3	Heptachlor epoxide	22	U
959-98-8	Endosulfan I	22	U
60-57-1	Dieldrin	42	UJ
72-55-9	4,4'-DDE	42	UJ
72-20-8	Endrin	42	U
33213-65-9	Endosulfan II	42	UJ
72-54-8	4,4'-DDD	42	UJ
1031-07-8	Endosulfan sulfate	42	U
50-29-3	4,4'-DDT	42	UJ
72-43-5	Methoxychlor	220	UJ
53494-70-5	Endrin ketone	42	UJ
7421-36-3	Endrin aldehyde	42	UJ
5103-71-9	alpha-Chlordane	22	U
5103-74-2	gamma-Chlordane	22	U
8001-35-2	Toxaphene	2200	U
12674-11-2	Aroclor-1016	420	U
11104-28-2	Aroclor-1221	860	U
11141-16-5	Aroclor-1232	420	U
53469-21-9	Aroclor-1242	420	U
12672-29-6	Aroclor-1248	420	U
11097-69-1	Aroclor-1254	420	U
11096-82-5	Aroclor-1260	420	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103DL

Lab Name: ILLINOIS EPA Contract: 68D00163

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) SOIL Lab Sample ID: D215818

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

% Moisture: 20 decanted: (Y/N) N Date Received: 04/14/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/22/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/25/92

Injection Volume: 2.00 (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	21	UJ
319-85-7	beta-BHC	21	U
319-86-8	delta-BHC	21	UJ
58-89-9	gamma-BHC (Lindane)	21	UJ
76-44-8	Heptachlor	21	U
309-00-2	Aldrin	21	U
1024-57-3	Heptachlor epoxide	10	JD
959-98-8	Endosulfan I	21	U
60-57-1	Dieldrin	41	UJ
72-55-9	4,4'-DDE	41	UJ
72-20-8	Endrin	41	U
33213-65-9	Endosulfan II	12	JPD
72-54-8	4,4'-DDD	41	UJ
1031-07-8	Endosulfan sulfate	41	U
50-29-3	4,4'-DDT	13	JPD
72-43-5	Methoxychlor	210	UJ
53494-70-5	Endrin ketone	41	UJ
7421-36-3	Endrin aldehyde	41	UJ
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	830	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

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104DL

Lab Name: ILLINOIS EPA Contract: 68D00163

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) SOIL Lab Sample ID: D215816

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

% Moisture: 15 decanted: (Y/N) N Date Received: 04/14/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/22/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/25/92

Injection Volume: 2.00 (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	UJ
319-85-7	beta-BHC	20	U
319-86-8	delta-BHC	20	UJ
58-89-9	gamma-BHC (Lindane)	20	UJ
76-44-8	Heptachlor	20	U
309-00-2	Aldrin	20	U
1024-57-3	Heptachlor epoxide	20	U
959-98-8	Endosulfan I	20	U
60-57-1	Dieldrin	39	UJ
72-55-9	4,4'-DDE	39	UJ
72-20-8	Endrin	39	U
33213-65-9	Endosulfan II	39	UJ
72-54-8	4,4'-DDD	39	UJ
1031-07-8	Endosulfan sulfate	39	U
50-29-3	4,4'-DDT	39	UJ
72-43-5	Methoxychlor	200	UJ
53494-70-5	Endrin ketone	39	UJ
7421-36-3	Endrin aldehyde	39	UJ
5103-71-9	alpha-Chlordane	20	U
5103-74-2	gamma-Chlordane	20	U
8001-35-2	Toxaphene	2000	U
12674-11-2	Aroclor-1016	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	390	U
11096-82-5	Aroclor-1260	390	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105DL

Lab Name: ILLINOIS EPA Contract: 68D00163

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) SOIL Lab Sample ID: D215814

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

% Moisture: 37 decanted: (Y/N) N Date Received: 04/14/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/22/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/25/92

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	27	UJ
319-85-7	beta-BHC	27	U
319-86-8	delta-BHC	27	UJ
58-89-9	gamma-BHC (Lindane)	27	UJ
76-44-8	Heptachlor	27	U
309-00-2	Aldrin	27	U
1024-57-3	Heptachlor epoxide	27	U
959-98-8	Endosulfan I	27	U
60-57-1	Dieldrin	11	JPD
72-55-9	4,4'-DDE	52	UJ
72-20-8	Endrin	22	JD
33213-65-9	Endosulfan II	19	JPD
72-54-8	4,4'-DDD	17	JPD
1031-07-8	Endosulfan sulfate	52	U
50-29-3	4,4'-DDT	31	JPD
72-43-5	Methoxychlor	69	JD
53494-70-5	Endrin ketone	52	UJ
7421-36-3	Endrin aldehyde	52	UJ
5103-71-9	alpha-Chlordane	27	U
5103-74-2	gamma-Chlordane	27	U
8001-35-2	Toxaphene	2700	U
12674-11-2	Aroclor-1016	520	U
11104-28-2	Aroclor-1221	1100	U
11141-16-5	Aroclor-1232	520	U
53469-21-9	Aroclor-1242	520	U
12672-29-6	Aroclor-1248	520	U
11097-69-1	Aroclor-1254	520	U
11096-82-5	Aroclor-1260	170	JPD

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106DL

Lab Name: ILLINOIS EPA Contract: 68D00163

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) SOIL Lab Sample ID: D215819

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

% Moisture: 26 decanted: (Y/N) N Date Received: 04/14/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/22/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/25/92

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	23	UJ
319-85-7	beta-BHC	23	U
319-86-8	delta-BHC	23	UJ
58-89-9	gamma-BHC (Lindane)	23	UJ
76-44-8	Heptachlor	23	U
309-00-2	Aldrin	23	U
1024-57-3	Heptachlor epoxide	23	U
959-98-8	Endosulfan I	23	U
60-57-1	Dieldrin	44	UJ
72-55-9	4,4'-DDE	44	UJ
72-20-8	Endrin	44	U
33213-65-9	Endosulfan II	44	UJ
72-54-8	4,4'-DDD	44	UJ
1031-07-8	Endosulfan sulfate	44	U
50-29-3	4,4'-DDT	44	UJ
72-43-5	Methoxychlor	230	UJ
53494-70-5	Endrin ketone	44	UJ
7421-36-3	Endrin aldehyde	44	UJ
5103-71-9	alpha-Chlordane	23	U
5103-74-2	gamma-Chlordane	23	U
8001-35-2	Toxaphene	2300	U
12674-11-2	Aroclor-1016	440	U
11104-28-2	Aroclor-1221	890	U
11141-16-5	Aroclor-1232	440	U
53469-21-9	Aroclor-1242	440	U
12672-29-6	Aroclor-1248	440	U
11097-69-1	Aroclor-1254	440	U
11096-82-5	Aroclor-1260	440	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107DL

Lab Name: ILLINOIS EPA Contract: 68D00163

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) SOIL Lab Sample ID: D215820

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

% Moisture: 22 decanted: (Y/N) N Date Received: 04/14/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/22/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/25/92

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	22	UJ
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	UJ
58-89-9	gamma-BHC (Lindane)	22	UJ
76-44-8	Heptachlor	22	U
309-00-2	Aldrin	22	U
1024-57-3	Heptachlor epoxide	22	U
959-98-8	Endosulfan I	22	U
60-57-1	Dieldrin	42	UJ
72-55-9	4,4'-DDE	42	UJ
72-20-8	Endrin	42	U
33213-65-9	Endosulfan II	42	UJ
72-54-8	4,4'-DDD	42	UJ
1031-07-8	Endosulfan sulfate	42	U
50-29-3	4,4'-DDT	42	UJ
72-43-5	Methoxychlor	220	UJ
53494-70-5	Endrin ketone	42	UJ
7421-36-3	Endrin aldehyde	42	UJ
5103-71-9	alpha-Chlordane	22	U
5103-74-2	gamma-Chlordane	22	U
8001-35-2	Toxaphene	2200	U
12674-11-2	Aroclor-1016	420	U
11104-28-2	Aroclor-1221	850	U
11141-16-5	Aroclor-1232	420	U
53469-21-9	Aroclor-1242	420	U
12672-29-6	Aroclor-1248	420	U
11097-69-1	Aroclor-1254	420	U
11096-82-5	Aroclor-1260	420	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X108DL

Lab Name: ILLINOIS EPA Contract: 68D00163

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) SOIL Lab Sample ID: D215810

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

% Moisture: 42 decanted: (Y/N) N Date Received: 04/14/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/22/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/25/92

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	29	UJ
319-85-7	beta-BHC	29	U
319-86-8	delta-BHC	29	UJ
58-89-9	gamma-BHC (Lindane)	29	UJ
76-44-8	Heptachlor	29	U
309-00-2	Aldrin	29	U
1024-57-3	Heptachlor epoxide	30	PD
959-98-8	Endosulfan I	29	U
60-57-1	Dieldrin	56	UJ
72-55-9	4,4'-DDE	56	UJ
72-20-8	Endrin	30	JPD
33213-65-9	Endosulfan II	16	JPD
72-54-8	4,4'-DDD	22	JPD
1031-07-8	Endosulfan sulfate	56	U
50-29-3	4,4'-DDT	34	JPD
72-43-5	Methoxychlor	290	UJ
53494-70-5	Endrin ketone	56	UJ
7421-36-3	Endrin aldehyde	19	JPD
5103-71-9	alpha-Chlordane	29	U
5103-74-2	gamma-Chlordane	29	U
8001-35-2	Toxaphene	2900	U
12674-11-2	Aroclor-1016	560	U
11104-28-2	Aroclor-1221	1100	U
11141-16-5	Aroclor-1232	560	U
53469-21-9	Aroclor-1242	560	U
12672-29-6	Aroclor-1248	560	U
11097-69-1	Aroclor-1254	970	D
11096-82-5	Aroclor-1260	250	JPD

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X109DL

Lab Name: ILLINOIS EPA Contract: 68D00163

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) SOIL Lab Sample ID: D215811

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

% Moisture: 23 decanted: (Y/N) N Date Received: 04/14/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/22/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/25/92

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

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	22	UJ
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	UJ
58-89-9	gamma-BHC (Lindane)	22	UJ
76-44-8	Heptachlor	22	U
309-00-2	Aldrin	22	U
1024-57-3	Heptachlor epoxide	15	JD
959-98-8	Endosulfan I	22	U
60-57-1	Dieldrin	19	JD
72-55-9	4,4'-DDE	42	UJ
72-20-8	Endrin	42	U
33213-65-9	Endosulfan II	42	UJ
72-54-8	4,4'-DDD	42	UJ
1031-07-8	Endosulfan sulfate	42	U
50-29-3	4,4'-DDT	22	JPD
72-43-5	Methoxychlor	220	UJ
53494-70-5	Endrin ketone	42	UJ
7421-36-3	Endrin aldehyde	42	UJ
5103-71-9	alpha-Chlordane	17	JPD
5103-74-2	gamma-Chlordane	13	JPD
8001-35-2	Toxaphene	2200	U
12674-11-2	Aroclor-1016	420	U
11104-28-2	Aroclor-1221	860	U
11141-16-5	Aroclor-1232	420	U
53469-21-9	Aroclor-1242	420	U
12672-29-6	Aroclor-1248	420	U
11097-69-1	Aroclor-1254	420	U
11096-82-5	Aroclor-1260	190	JPD

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X110DL

Lab Name: ILLINOIS EPA Contract: 68D00163

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215808

Matrix: (soil/water) SOIL Lab Sample ID: D215812

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

% Moisture: 17 decanted: (Y/N) N Date Received: 04/14/92

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 04/22/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/25/92

Injection Volume: 2.00 (uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	20	UJ
319-85-7	beta-BHC	20	U
319-86-8	delta-BHC	20	UJ
58-89-9	gamma-BHC (Lindane)	20	UJ
76-44-8	Heptachlor	20	U
309-00-2	Aldrin	20	U
1024-57-3	Heptachlor epoxide	9.3	JPD
959-98-8	Endosulfan I	20	U
60-57-1	Dieldrin	10	JPD
72-55-9	4,4'-DDE	39	UJ
72-20-8	Endrin	39	U
33213-65-9	Endosulfan II	23	JPD
72-54-8	4,4'-DDD	39	UJ
1031-07-8	Endosulfan sulfate	39	U
50-29-3	4,4'-DDT	41	PDJ
72-43-5	Methoxychlor	200	UJ
53494-70-5	Endrin ketone	39	UJ
7421-36-3	Endrin aldehyde	39	UJ
5103-71-9	alpha-Chlordane	20	U
5103-74-2	gamma-Chlordane	20	U
8001-35-2	Toxaphene	2000	U
12674-11-2	Aroclor-1016	390	U
11104-28-2	Aroclor-1221	800	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	390	U
11096-82-5	Aroclor-1260	390	U

Data Validation Checklist
Site Name: Hedlund Manufacturing
SDG
No.: 215808
Laboratory: IEPA
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PRELIMINARY REVIEW 7/24/92

1. *Chain-of-Custody*

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

Comments:

2. *Case Narrative*

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

Comments:

Data Validation Checklist
Site Name: Hedlund
SDG No.: 215808
Laboratory: IEPA
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I. Holding Times

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

EPA Number	Lab Number	Date Coll.	Date Rec'd.	VOA Date Anal.	Semi-VOA Date Extr	Semi-VOA Date Anal.	Pesticide Date Extr	Pesticide Date Anal.
G201	D215808	4/14/92	4/14/92	4/20/92	4/16/92	5/8/92	4/16/92	6/25/92
G202	-821	4/14	4/14	4/20	4/16	5/8	4/16	6/25
G203	-813	4/14	4/14	4/20	4/16	5/8	4/16	6/25
G204	-822	4/14	4/14	4/20	4/16	5/8	4/16	6/25
VBLKTB	-809	4/14	4/14	4/20	—	—	—	—
X101	-815	4/14	4/14	4/23	4/15	5/27		
X102	-817	4/14	4/14	4/23	4/15	5/8	*see	
X103	-818	4/14	4/14	4/23	4/15	5/27		
X104	-816	4/14	4/14	4/23	4/15	5/8	dilutions	
X105	-814	4/14	4/14	4/23	4/15	5/14		next
X106	-819	4/14	4/14	4/23	4/15	5/8		page
X107	-820	4/14	4/14	4/23	4/15	5/8		
X108	-810	4/14	4/14	4/16	4/15	5/27		
X109	-811	4/14	4/14	4/16	4/15	5/14		
X110	-812	4/14	4/14	4/16	4/15	5/14		
X110RE	-812	4/14	4/14	—	4/15	5/27		

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

VOA - OK
SV - OK
Pest - water samples - 70 days from extraction to analysis
soil samples - 64 days from extraction to analysis

Data Validation Checklist
Site Name: Hedlund
SDG No.: 215808
Laboratory: IEPA
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I. Holding Times

Cont'

YES NO

[X] [ ] Check that all technical and/or contractual holding times were met, as required, for all fractions.

EPA Number	Lab Number	Date Coll.	Date Rec'd.	VOA Date Anal.	Semi-VOA Date Extr	Semi-VOA Date Anal.	Pesticide Date Extr	Pesticide Date Anal.
X101DL	-815	4/14/92	4/14/92	—	4/15/92	5/27/92	4/22/92	6/25/92
X102DL	-817	4/14	4/14	—			4/22/92	6/25
X103DL	-818	4/14	4/14	4/23	4/15	5/27	4/22	6/25
X104DL	-816	4/14	4/14	—	—	—	4/22	6/25
X105DL	-814	4/14	4/14	—	4/15	5/27	4/22	6/25
X106DL	-819	4/14	4/14	—	—	—	4/22	6/25
X107DL	-820	4/14	4/14	—	—	—	4/22	6/25
X108DL	-810	4/14	4/14	—	—	—	4/22	6/25
X109DL	-811	4/14	4/14	—	4/15	5/27	4/22	6/25
X110DL	-812	4/14	4/14	—	—	—	4/22	6/25

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

VOA - OK
SV OK
Pest - water samples - 70 days from extraction to analysis
soil samples - 64 days from extraction to analysis

Data Validation Checklist
Site Name: Hedlund
SDG No.: 215808
Laboratory: IEPA
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II. GC/MS Instrument Performance Check

Fraction: VOA SemiVOA (*circle one*)

1. Evaluate Forms V and Raw Data

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

2. Verify Raw Data Format

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

3. Verify Ion Abundance Criteria

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

4. Verify Background Correction

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

Comments:

Data Validation Checklist
Site Name: Hedlund
SDG No.: 215808
Laboratory: IEPA
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III. Initial Calibration

GC/MS

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

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

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

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

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

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

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

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

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

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

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

Comments:

IV. Continuing Calibration

GC/MS

Fraction: VOA SemiVOA (*circle one*)

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

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

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

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

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

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

Comments:

VOLATILE CALIBRATION OUTLIERS

3/90 SOW

Lab Name: IEPA Case: Hedlund

Instrument # 5100	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME:	RRF	4/8/92 1327			4/20/92 1250											
Non-heated purge		RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q
Chloromethane	0.010		33.8	J												
Bromomethane	0.100		32.8	J												
Vinyl Chloride	0.100															
Chloroethane	0.010		42.3	J												
Methylene Chloride	0.010															
Acetone	0.010															
Carbon Disulfide	0.010															
1,1-Dichloroethene	0.100		38.6	J												
1,1-Dichloroethane	0.200															
1,2-Dichloroethene (total)	0.010															
Chloroform	0.200															
1,2-Dichloroethane	0.100															
2-Butanone	0.010															
1,1,1-Trichloroethane	0.100															
Carbon Tetrachloride	0.100															
Bromodichloromethane	0.200															
1,2-Dichloropropane	0.010					26.8	J									
cis-1,3-Dichloropropene	0.200															
Trichloroethene	0.300															
Dibromochloromethane	0.100															
1,1,2-Trichloroethane	0.100															
Benzene	0.500															
trans-1,3-Dichloropropene	0.100															
Bromoform	0.100															
4-Methyl-2-Pentanone	0.010															
2-Hexanone	0.010															
Tetrachloroethene	0.200															
1,1,2,2-Tetrachloroethane	0.500															
Toluene	0.400															
Chlorobenzene	0.500															
Ethylbenzene	0.100															
Styrene	0.300															
Xylene(total)	0.300															
Bromofluorobenzene	0.300															

AFFECTED SAMPLES:

VBLKW
VBLKTB
G201
G203
G202
G204
G201MS
G201MSD

Reviewer's Initials/Date: Gm 7/24/92

3/92

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

VOLATILE CALIBRATION OUTLIERS

3/90 SOW

Lab Name: IEPA

Case: Hedlund

Instrument # 5100B	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME:	RRF	4/23/92 1031			4/23/92 1419											
heated purge		RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q
Chloromethane	0.010															
Bromomethane	0.100															
Vinyl Chloride	0.100															
Chloroethane	0.010															
Methylene Chloride	0.010															
Acetone	0.010															
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															
1,1,1-Trichloroethane	0.100															
Carbon Tetrachloride	0.100															
Bromodichloromethane	0.200															
1,2-Dichloropropane	0.010															
cis-1,3-Dichloropropene	0.200															
Trichloroethene	0.300															
Dibromochloromethane	0.100															
1,1,2-Trichloroethane	0.100															
Benzene	0.500															
trans-1,3-Dichloropropene	0.100															
Bromoform	0.100															
4-Methyl-2-Pentanone	0.010															
2-Hexanone	0.010															
Tetrachloroethene	0.200															
1,1,2,2-Tetrachloroethane	0.500															
Toluene	0.400															
Chlorobenzene	0.500															
Ethylbenzene	0.100															
Styrene	0.300															
Xylene(total)	0.300															
Bromofluorobenzene	0.300															

AFFECTED SAMPLES:

VBLK5L2
X104
X102
X103
X106
X107
X105
X101
X103DL

Reviewer's Initials/Date am 7/24/92

3/92

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

VOLATILE CALIBRATION OUTLIERS

3/90 SOW

Lab Name: IEPA

Case: Hedlund

Instrument # 5100B	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME:	RRF	4/15/92 1029			4/16/92 1108											
heated purge		RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q
Chloromethane	0.010															
Bromomethane	0.100															
Vinyl Chloride	0.100															
Chloroethane	0.010					26.3	J									
Methylene Chloride	0.010															
Acetone	0.010															
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					31.4	J									
1,1,1-Trichloroethane	0.100															
Carbon Tetrachloride	0.100															
Bromodichloromethane	0.200															
1,2-Dichloropropane	0.010															
cis-1,3-Dichloropropene	0.200															
Trichloroethene	0.300															
Dibromochloromethane	0.100															
1,1,2-Trichloroethane	0.100															
Benzene	0.500															
trans-1,3-Dichloropropene	0.100															
Bromoform	0.100															
4-Methyl-2-Pentanone	0.010															
2-Hexanone	0.010															
Tetrachloroethene	0.200															
1,1,2,2-Tetrachloroethane	0.500															
Toluene	0.400															
Chlorobenzene	0.500															
Ethylbenzene	0.100															
Styrene	0.300															
Xylene(total)	0.300															
Bromofluorobenzene	0.300															

AFFECTED SAMPLES:

VBLKSL1
X108
X109
X110
X109MS
X109MSD

Reviewer's Initials/Date: Am 7/24/92

3/92

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

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.	VBLKTB	VBLKW	VBLKSL1	VBLKSL2
Date Anal. or Extr.	4/20/92	4/20/92	4/16/92	4/23/92
Instrument	5100	5100	5100B	5100B

TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount
Acetone	12			MeCl2	5	MeCl2	9
				Acetone	14	Acetone	11
				2-But	5	2-But	3

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

VI. Surrogate Spikes

GC/MS

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

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

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

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

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

3 ***Evaluate Surrogate Recoveries.***

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

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

4. ***Evaluate Reanalyses.***

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

No reanalyses.

Comments:
X109 MS + MSD - 1,2 Dichloroethane d4 high % R

Data Validation Checklist
Site Name: Hedlund
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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
	X109	X109MS	X109MSD	
$MeCl_2$	25	7	8	76%
	G201	G201MS	G201MSD	
Tetrachloroethene	36	30	32	9%
1,2-Dichloroethene	4	U	U	

Comments:

VIII. Laboratory Control Samples

N/A

IX. Project Specific QA/QC

Evaluation Procedures must follow the project QAPjP.

N/A

X. Internal Standards

GC/MS

Fraction: VOA SemiVOA (*circle one*)

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

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

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

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

3. ***Evaluate Reanalyses.***

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

Comments:
X109MSD Bromochloromethane low [redacted] area (slightly)

XI. Target Compound Identification

GC/MS

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

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

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

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

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

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

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

4. ***Evaluate Chromatograms.***

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

Comments:

XII. Compound Quantitation and Reported CRQLs

Fraction: VOA SemiVOA Pesticide *(circle one)*

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

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

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

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

3. ***Evaluate CRQLs.***

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

Comments:

XIII. Tentatively Identified Compounds

GC/MS Only

Fraction: VOA SemiVOA (*circle one*)

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

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

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

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

3. ***Evaluate Blanks.***

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

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

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

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

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

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

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

XIII. TICs continued

7. Evaluate Possibility of False Negatives.

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

8. Determine That Results Are From Proper Fraction.

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

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

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

10. Verify Estimated Quantitation of TICs.

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

Comments:

XIV. GC/MS System Performance

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

1. ***Evaluate Overall System Performance.***

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

Comments:

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II. GC/MS Instrument Performance Check

Fraction: VOA SemiVOA (circle one)

1. *Evaluate Forms V and Raw Data*

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

2. *Verify Raw Data Format*

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

3. *Verify Ion Abundance Criteria*

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

4. *Verify Background Correction*

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

Comments:

Data Validation Checklist
Site Name: Hedlund
SDG
No.: 215808
Laboratory: IEPA
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III. Initial Calibration

GC/MS

Fraction: VOA SemiVOA (circle one)

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

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

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

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

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

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

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

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

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

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

Comments:

_____

_____

IV. Continuing Calibration

GC/MS

Fraction: VOA SemiVOA (circle one)

1. Verify Continuing Calibration Frequency.

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

2. Evaluate Continuing Calibration RRFs.

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

3. Evaluate Continuing Calibration %Ds.

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

Comments:

SEMIVOLATILE CALIBRATION OUTLIERS

Page 1

Lab Name: IEPA

Case: Hedlund

Instrument # XL	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME:	RRF	5/21/92 1800			5/27/92 915			5/27/92 1441								
		RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q
Phenol	0.800															
bis(2-Chloroethyl)ether	0.700															
2-Chlorophenol	0.800															
1,3-Dichlorobenzene	0.600															
1,4-Dichlorobenzene	0.500															
1,2-Dichlorobenzene	0.400															
2-Methylphenol	0.700															
2,2' oxybis(1-Chloropropanol)	0.010															
4-Methylphenol	0.600															
N-Nitroso-di-n-propylamine	0.500															
Hexachloroethane	0.300															
Nitrobenzene	0.200															
Isophorone	0.400															
2-Nitrophenol	0.100					32.5	J									
2,4-Dimethylphenol	0.200															
bis(2-Chloroethoxy)methane	0.300															
2,4-Dichlorophenol	0.200															
1,2,4-Trichlorobenzene	0.200															
laphthalene	0.700															
4-Chloroaniline	0.010		31.2	J					193.0	J						
Hexachlorobutadiene	0.010															
4-Chloro-3-methylphenol	0.200															
2-Methylnaphthalene	0.400															
Hexachlorocyclopentadiene	0.010															
2,4,6-Trichlorophenol	0.200															
2,4,5-Trichlorophenol	0.200															
2-Chloronaphthalene	0.800															
2-Nitroaniline	0.010															
Dimethylphthalate	0.010															
Acenaphthylene	1.300															
2,6-Dinitrotoluene	0.200															
3-Nitroaniline	0.010	.016	80.1	J	.024	50.0	J		281.2	J						
Acenaphthene	0.800															
2,4-Dinitrophenol	0.010															
4-Nitrophenol	0.010															
Dibenzofuran	0.800															
2,4-Dinitrotoluene	0.200															

AFFECTED SAMPLES:

X109DL	X101DL	
X105DL	X103DL	
	X108	
	X110RE	
	X101	
	X103	
	X110MS	
	X110MSD	

Reviewer's Initials/Date: CM 7/24/92

3/92

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

SEMIVOLATILE CALIBRATION OUTLIERS

Page 2

Lab Name: IEPA Case: Hedlund

Instrument # XL	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME:	RRF	5/21/92 1800			5/27/92 915			5/27/92 1441								
		RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q
Diethylphthalate	0.010															
4-Chlorophenyl-phenylether	0.400															
Fluorene	0.900															
4-Nitroaniline	0.010					35.1	J		74.3	J						
4,6-Dinitro-2-methylphenol	0.010															
N-Nitrosodiphenylamine (1)	0.010															
4-Bromophenyl-ethylether	0.100															
Hexachlorobenzene	0.100															
Pentachlorophenol	0.050															
Phenanthrene	0.700															
Anthracene	0.700															
Carbazole	0.010					30.8	J		26.2	J						
Di-n-butylphthalate	0.010															
Fluoranthene	0.600															
Pyrene	0.600															
Butylbenzylphthalate	0.010															
3,3'-Dichlorobenzidine	0.010		34.6	J		106.6	J		180.2	J						
Benzo(a)anthracene	0.800															
Chrysene	0.700															
bis(2-Ethylhexyl)phthalate	0.010															
Di-n-octylphthalate	0.010					27.6	J		35.5	J						
Benzo(b)fluoranthene	0.700															
Benzo(k)fluoranthene	0.700															
Benzo(a)pyrene	0.700															
Indeno(1,2,3-cd)pyrene	0.500															
Dibenz(a,h)anthracene	0.400															
Benzo(g,h,i)perylene	0.500															
Nitrobenzene-d5	0.200															
2-Fluorobiphenol	0.700															
Terphenyl-d14	0.500								25.1	J						
Phenol-d6	0.800															
2-Fluorophenol	0.600															
2-Chlorophenol-d4	0.800															
1,2-Dichlorobenzene-d4	0.400															
4-Nitrophenol	0.010															
Dibenzofuran	0.800															
2,4-Dinitrotoluene	0.200															

3/92

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

SEE PAGE 1 FOR AFFECTED SAMPLES

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SEMIVOLATILE CALIBRATION OUTLIERS

Page 1

Lab Name: IEPA

Case: Hedlund

Instrument # INC500	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME:	RRF	5/7/92 1352			5/7/92 1919			5/8/92 1004								
		RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q
Phenol	0.800															
bis(2-Chloroethyl)ether	0.700															
2-Chlorophenol	0.800															
1,3-Dichlorobenzene	0.600															
1,4-Dichlorobenzene	0.500															
1,2-Dichlorobenzene	0.400															
2-Methylphenol	0.700															
2,2' oxybis(1-Chloropropanol)	0.010															
4-Methylphenol	0.600															
N-Nitroso-di-n-propylamine	0.500															
Hexachloroethane	0.300															
Nitrobenzene	0.200															
Isophorone	0.400															
2-Nitrophenol	0.100															
2,4-Dimethylphenol	0.200															
bis(2-Chloroethoxy)methane	0.300															
2,4-Dichlorophenol	0.200															
1,2,4-Trichlorobenzene	0.200															
Naphthalene	0.700															
4-Chloroaniline	0.010															
Hexachlorobutadiene	0.010															
4-Chloro-3-methylphenol	0.200															
2-Methylnaphthalene	0.400															
Hexachlorocyclopentadiene	0.010															
2,4,6-Trichlorophenol	0.200															
2,4,5-Trichlorophenol	0.200															
2-Chloronaphthalene	0.800															
2-Nitroaniline	0.010															
Dimethylphthalate	0.010															
Acenaphthylene	1.300															
2,6-Dinitrotoluene	0.200															
3-Nitroaniline	0.010															
Acenaphthene	0.800															
2,4-Dinitrophenol	0.010					30.7	J		26.3	J						
4-Nitrophenol	0.010															
Dibenzofuran	0.800															
2,4-Dinitrotoluene	0.200															

AFFECTED SAMPLES:

SBLKW	SBLKSL
6201	X102
6203	X104
6202	X107
6204	X106
6204MS	
6204MSD	

Reviewer's Initials/Date: am 7/24/92

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

SEMIVOLATILE CALIBRATION OUTLIERS

Page 2

Lab Name: IEPA

Case: Hedlund

Instrument # INC500	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME:	RRF	5/7/92 1352			5/7/92 1919			5/8/92 1004								
		RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q
Diethylphthalate	0.010															
4-Chlorophenyl-phenylether	0.400															
Fluorene	0.900															
4-Nitroaniline	0.010								37.8	J						
4,6-Dinitro-2-methylphenol	0.010															
N-Nitrosodiphenylamine (1)	0.010															
4-Bromophenyl-ethylether	0.100															
Hexachlorobenzene	0.100															
Pentachlorophenol	0.050															
Phenanthrene	0.700															
Anthracene	0.700															
Carbazole	0.010															
Di-n-butylphthalate	0.010															
Fluoranthene	0.600															
Pyrene	0.600															
Butylbenzylphthalate	0.010															
3,3'-Dichlorobenzidine	0.010															
Benzo(a)anthracene	0.800															
Chrysene	0.700															
bis(2-Ethylhexyl)phthalate	0.010															
Di-n-octylphthalate	0.010															
Benzo(b)fluoranthene	0.700															
Benzo(k)fluoranthene	0.700															
Benzo(a)pyrene	0.700															
Indeno(1,2,3-cd)pyrene	0.500															
Dibenz(a,h)anthracene	0.400															
Benzo(g,h,i)perylene	0.500															
Nitrobenzene-d5	0.200															
2-Fluorobiphenol	0.700															
Terphenyl-d14	0.500															
Phenol-d6	0.800															
2-Fluorophenol	0.600															
2-Chlorophenol-d4	0.800															
1,2-Dichlorobenzene-d4	0.400															
4-Nitrophenol	0.010															
Dibenzofuran	0.800															
2,4-Dinitrotoluene	0.200															

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

SEE PAGE 1 FOR AFFECTED SAMPLES

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SEMIVOLATILE CALIBRATION OUTLIERS

Page 1

Lab Name: IEPA

Case: Hedlund

Instrument # XL	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME:	RRF	5/12/92 1826			5/14/92 1314											
		RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q
Phenol	0.800															
bis(2-Chloroethyl)ether	0.700															
2-Chlorophenol	0.800															
1,3-Dichlorobenzene	0.600															
1,4-Dichlorobenzene	0.500															
1,2-Dichlorobenzene	0.400															
2-Methylphenol	0.700															
2,2' oxybis(1-Chloropropanol)	0.010															
4-Methylphenol	0.600															
N-Nitroso-di-n-propylamine	0.500															
Hexachloroethane	0.300															
Nitrobenzene	0.200															
Isophorone	0.400															
2-Nitrophenol	0.100															
2,4-Dimethylphenol	0.200															
bis(2-Chloroethoxy)methane	0.300															
2,4-Dichlorophenol	0.200															
1,2,4-Trichlorobenzene	0.200															
Naphthalene	0.700															
4-Chloroaniline	0.010		36.6	J												
Hexachlorobutadiene	0.010															
4-Chloro-3-methylphenol	0.200															
2-Methylnaphthalene	0.400															
Hexachlorocyclopentadiene	0.010															
2,4,6-Trichlorophenol	0.200															
2,4,5-Trichlorophenol	0.200															
2-Chloronaphthalene	0.800															
2-Nitroaniline	0.010															
Dimethylphthalate	0.010															
Acenaphthylene	1.300															
2,6-Dinitrotoluene	0.200															
3-Nitroaniline	0.010															
Acenaphthene	0.800															
2,4-Dinitrophenol	0.010															
4-Nitrophenol	0.010															
Dibenzofuran	0.800															
2,4-Dinitrotoluene	0.200															

AFFECTED SAMPLES:

X109
X110
X105

Reviewer's Initials/Date: Am 7/24/92

3/92

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

SEMIVOLATILE CALIBRATION OUTLIERS

Page 2

Lab Name: IEPA Case: Hedland

Instrument # XL	Minimum	Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
DATE/TIME:	RRF	5/12/92 1826			5/14/92 1314											
		RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q	RF	%RSD	Q
Diethylphthalate	0.010															
4-Chlorophenyl-phenylether	0.400															
Fluorene	0.900															
4-Nitroaniline	0.010															
4,6-Dinitro-2-methylphenol	0.010															
N-Nitrosodiphenylamine (1)	0.010															
4-Bromophenyl-ethylether	0.100															
Hexachlorobenzene	0.100															
Pentachlorophenol	0.050															
Phenanthrene	0.700															
Anthracene	0.700															
Carbazole	0.010															
Di-n-butylphthalate	0.010															
Fluoranthene	0.600															
Pyrene	0.600															
Butylbenzylphthalate	0.010															
3,3'-Dichlorobenzidine	0.010															
Benzo(a)anthracene	0.800															
Chrysene	0.700															
bis(2-Ethylhexyl)phthalate	0.010															
Di-n-octylphthalate	0.010															
Benzo(b)fluoranthene	0.700															
Benzo(k)fluoranthene	0.700															
Benzo(a)pyrene	0.700															
Indeno(1,2,3-cd)pyrene	0.500															
Dibenz(a,h)anthracene	0.400															
Benzo(g,h,i)perylene	0.500															
Nitrobenzene-d5	0.200															
2-Fluorobiphenol	0.700															
Terphenyl-d14	0.500															
Phenol-d6	0.800															
2-Fluorophenol	0.600															
2-Chlorophenol-d4	0.800															
1,2-Dichlorobenzene-d4	0.400															
4-Nitrophenol	0.010															
Dibenzofuran	0.800															
2,4-Dinitrotoluene	0.200															

3/92

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

SEE PAGE 1 FOR AFFECTED SAMPLES

viewer's initials/Date AM 7/24/92

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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.	SBLKW		SBLKSL		GPC Blks OK		
Date Anal. or Extr.	Ex 4/16/92 An 5/7/92		Ext 4/15/92 An 5/8/92				
Instrument	INC500		INC500				
TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount

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

see Form 1's attached for TICs

* No blank was run on instrument XL.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKSL

b Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) SOIL Lab Sample ID: D215929

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0508W06

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

% Moisture: _____ decanted: (Y/N) N Date Extracted: 4/15/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 05/08/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 7

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 79-34-5	ETHANE, 1,1,2,2-TETRACHLORO-	9.54	140	JN
2.	UNKNOWN KETONE	9.60	740	AJ
3.	UNKNOWN KETONE	10.39	3400	AJ
4.	UNKNOWN KETONE	10.62	1900	AJ
5.	UNKNOWN PHTHALATE	25.34	910	J
6.	UNKNOWN	26.29	120	J
7.	UNK. ALIPHATIC ACID ESTER	31.04	300	J

EPA SAMPLE NO.

SBLKW

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ILLINOIS EPA Contract: 1350450001

Lab Code: SPFLD Case No.: HEDLUN SAS No.: _____ SDG No.: 215508

Matrix: (soil/water) WATER Lab Sample ID: D215985

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B0507W06

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

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 4/16/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/07/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 28

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	8.13	88	AJ
2. 96-19-5	1-PROPENE, 1,2,3-TRICHLORO-	8.54	56	JN
3.	UNKNOWN ALIP. ALCOHOL	8.92	26	J
4. 2441-97-6	CYCLOHEXENE, 3-CHLORO-	9.42	140	JN
5. 79-34-5	ETHANE, 1,1,2,2-TETRACHLORO-	9.54	52	JN
6.	UNKNOWN	9.74	9	J
7. 20589-85-9	1-PROPENE, 1,2,3,3-TETRACHLO	9.94	7	JN
8.	UNKNOWN	10.42	390	J
9.	UNKNOWN	10.69	7	J
10.	UNKNOWN	12.22	440	J
11.	UNKNOWN	12.60	4	J
12.	UNKNOWN	12.79	26	J
13. 24955-63-3	CYCLOHEXANE, 1,3-DICHLORO-,	13.07	140	JN
14.	UNKNOWN	14.02	7	J
15.	UNKNOWN	14.57	270	J
16.	UNKNOWN	14.67	55	J
17.	UNKNOWN	16.30	14	J
18.	UNKNOWN	17.27	77	J
19.	UNKNOWN	17.65	54	J
20.	UNKNOWN	18.39	35	J
21.	UNKNOWN	19.82	20	J
22.	UNKNOWN	22.34	6	J
23.	UNKNOWN	22.55	46	J
24.	UNKNOWN	25.49	14	J
25.	UNKNOWN	25.54	11	J
26.	UNKNOWN	25.64	18	J
27.	UNKNOWN	29.04	15	J
28.	UNKNOWN	31.44	6	J

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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.

* use X110RE instead of X110

Comments:

G201
G202
G203 } low %R 2-Fluorobiphenyl
G204
* SBLKW

X103 - high %R Nitrobenzene-d5
% %R Terphenyl-d14 (could not be calc. due to a large saturated group of peaks at the RT of internal std. See case narrative.)
X110MSD - 2,4,6-Tribromophenol - high %R

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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
6204 - no non-spiked compounds in original sample				
X110				
Naphthalene	67	120	94	17%
2-Methylnaphthalene	240	360	330	20%
Phenanthrene	340	410	U	13%
Di-n-Butylphthalate	44	U	U	—
Fluoranthene	93	U	U	—
Benzo(a)Anthracene	87	140	U	33%
Chrysene	90	220	U	60%

Comments: X110MS + MSD Calc. OK
X110MS - 0% R Phenol
high % R 1,2,4-Trichlorobenzene
0% R 4-Nitrophenol
high % R 2,4-Dinitrotoluene

See attached

X110MSD - high % R - 1,2,4 Trichlorobenzene
4-Chloro-3-methylphenol
4-Nitrophenol

0 % R - 2,4-Dinitrotoluene
Pentachlorophenol
Pyrene

% RPD - high - Phenol
- 4-Nitrophenol
- 2,4-Dinitrotoluene
- Pentachlorophenol
- Pyrene

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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:
X110 - Chrysene d12 - high area
X109DL - Perylene - d12 - high area
X103 - Acenaphthene d8 - low area
Chrysene d12 } could not be calc. due to
Perylene d12 } large saturated group of peaks
X110MS/MSD - low areas for most i.s.

XI. Target Compound Identification

GC/MS

Fraction: VOA SemiVOA (*circle one*)

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

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

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

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

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

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

4. ***Evaluate Chromatograms.***

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

Comments:

XII. Compound Quantitation and Reported CRQLs

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

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

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

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

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

3. ***Evaluate CRQLs.***

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

Comments:

XIII. Tentatively Identified Compounds

GC/MS Only

Fraction: VOA SemiVOA (*circle one*)

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

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

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

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

3. ***Evaluate Blanks.***

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

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

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

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

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

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

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

XIII. TICs continued

7. Evaluate Possibility of False Negatives.

	YES	NO	N/A	
a.	[X]	[ ]	[ ]	Check to determine if target compounds have been identified and quantitated as TICs.
b.	[X]	[ ]	[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:
See V Blanks for TIC's identified in blks.

* SBLKSL – 1,1,2,2-Tetrachloroethane is listed as TIC

6201
6202
6203
6204
SBLKW
X106

these samples also list 1,1,22 Tetrachloroethane as TIC.

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:

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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:
PEM01 (DB1701) - RT's not reported on Form VII Pest 1
RPD's high - beta BHC
PEM02 (DB1701) - RPD high - 4,4-DDT
PEM03 (DB1701) RPD high - 4,4-DDT

PEM01 (DB-608) - Combined % breakdown 31.3

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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:
%RSD exceeds 20% for the following →

* col. DB-1701	col. DB-608
α BHC	α BHC
delta BHC	delta BHC
gamma BHC	Dieldrin
4,4'-DDE	4,4' DDE
Endrin ketone	Endosulfan II
	4,4' DDD
	Methoxychlor
	Endrin aldehyde

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:

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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

Instrument Blks. OK

Blank Sample No.	PBLKS1	PBLKW1		
Date Anal. or Extr.	Ext 4/22/92	Ext 4/16/92		
Instrument	HP1 +2	HP1 +2		

TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount	TCL Comp'd.	Amount
		Aroclor-1248	0.39				

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

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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] [ ] [X] If retention time limits are not met, check the raw data for possible misidentification of GC peaks.

5. *Evaluate Any Low Recoveries.*

YES NO N/A
[X] [ ] [ ] If low surrogate recoveries are observed, check whether low recoveries are due to sample dilution.

6. *Evaluate Surrogate Analyses in Blanks.*

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

Comments: X110 - DCB (DB-1701) - high % R
PBLKS1 - TCX - low % R both columns
X102 - TCX - low % R both columns
X104 - TCX + DCB low % R on DB-608
X105 - TCX (DB-1701) + DCB (DB-608) low % R
X107 - TCX low % R both columns
X107MS - TCX (DB-1701) low % R
X108 - DCB (DB 1701) - high % R
X109 - TCX (DB-1701) - low % R

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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
* No non-spiked compounds in samples				

Comments:

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:

Florisil Cartridge Check - 4,4-DDT - 122.5% R
TCX 122.0% R

GPC - Heptachlor } low % R
Endrin }

* GPC calib check chromatogram does not contain Aroclor patterns.

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:

XII. Compound Quantitation and Reported CRQLs

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

1. Evaluate Quantitation of Sample Results.

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

2. Evaluate Quantitation Parameters.

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

3. Evaluate CRQLs.

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

Comments:

XV. Overall Assessment of Data

Evaluate the Overall Quality of the Data.

YES	NO	
[✓]	[ ]	Evaluate any technical problems which have not been previously addressed.
[✓]	[ ]	Review all available materials to assess the overall quality of the dada, keeping in mind the additive nature of analytical problems.
[✓]	[ ]	If appropriate information is available, assess the usability of the data to assist the data user in avoiding inappropriate use of the data. Review all available information, including the QAPjP, SAP, and communications with the data user that concerns the intended use of the data.

Provide a brief narrative to give the data user an indication of the analytical limitations of the data. Include any details from the above checks. Any inconsistency of the data with the Case Narrative should be noted. If sufficient information is available, the reviewer should give an assessment of the usability of the data within the given context.

Data qualified as indicated on Form 1's.

am

SDMS US EPA Region V

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