L1970000000--Will County
New Lenox Public Well #4
ILD981956469
SF/HRS
Volume 2 of 2

EPA Region 5 Records Ctr.
379150

CERCLA
Screening Site Inspection Report

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

RELEASED
DATE 9/18/96
RIN # 2324
INITIALS J. P.

Confidential Material May be Enclosed

APPENDIX H

ANALYTICAL RESULTS FROM IEPA COLLECTED SAMPLES

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

MEMORANDUM

DATE: August 18, 1989

TO: Tom Crause

FROM: Ron Turpin & Jim Shaw JS

SUBJECT: Review of New Lennox Data Package

The Division of Laboratories Quality Assurance Section has reviewed the above referenced data package. The package is for 5 water samples, 1 trip blank and 6 soil samples for Target Compound List (TCL) Organics and Inorganics. The results are valid as qualified on the attached Forms I.

Attached is the User Fee summary or "Bill" for the New Lennox samples.

attachments

cc: John Hurley
Karl Reed
Greg Dunn
Bob Staber

ILLINOIS EPA LABORATORY

CASE NARRATIVE : NEW LENNOX

SAMPLE I.D. : G101-G104
PW#4
X101-X106

RECEIVED : 03/30/89

Board
May 24 1989

Volatile/Semivolatile data :

The Illinois EPA Laboratory experienced a head crash on the Finnigan 4021 GC/MS before the semivolatile data for this set were transferred to FORMASTER. Most of those data were manually entered into the FORMASTER database from the processed GC/MS printouts. All of the available data is included in the package.

Sample PW#4 is reported as PW_4. The # symbol is not an allowable character in FORMASTER.

The volatile TIC compounds for G104 and X105 are reported in the diluted runs G104DL and X105DL. Some of the TIC compounds were saturated in the undiluted runs.

The surrogate recovery for D4-1,2-dichloroethane is not reported in X105 because of large interferring TIC compounds.

Dilution factors differ for the some TIC reports because of the way FORMASTER calculates the data.The dilution factor on the target compound list is the correct one. -GG

Pesticide/PCB data :

Samples D971830-D971841 were run in three 72-hour sequences ; a primary sequence, a repeat of a section of the primary sequence, and a confirmation sequence. The pertinent forms for all sequences are enclosed.

The sequences were used to analyze samples from two CLP sites--New Lennox and Taylorville/Christian County.

The blank for the low level sediment samples D971830-D971841 was run only on the DB-5 confirmation column. The blank for the low sediment from Taylorville/Christian County was run on both DB-608 and DB-5 columns.

Samples D971839 and D971840 were oils. They were diluted and run without the addition of surrogates. cmc

RECEIVED
SEP 1 1989
IEPA-DLPC
J. Henry

SAMPLE HOLDING TIMES AND DILUTIONS

Laboratory ILLINOIS EPA
Case Number NEWLEN

Sample				VOA			BNA					PEST				
Number	M	L	Rcvd	Anal	Hld	Dil	Extr	Hld	Anal	Hld	Dil	Extr	Hld	Anal	Hld	D
G101	W	L	03/30	04/05	6											
G101DL	W	L	03/30	04/05	6	5.00										
G102	W	L	03/30	04/05	6	5.00										
G103	W	L	03/30	04/05	6	5.00										
G104	S	M	03/30	04/06	7	38.1										
G104DL	S	M	03/30	04/07	8	762										
FW_4	W	L	03/30	04/05	6	762										
X101	S	M	03/30	04/06	7											
X102	S	L	03/30	04/07	8											
X103	S	L	03/30	04/06	7											
X104	S	M	03/30	04/07	8											
X104DL	S	M	03/30	04/07	8	4.00										
X105	S	M	03/30	04/06	7	38.5										
X105DL	S	M	03/30	04/07	8	769										
X106	S	L	03/30	04/06	7											
BLKW	W	L	03/30	04/05	6											
G101	W	L	03/30				03/30	0	04/04	5						
G102	W	L	03/30				03/30	0	04/04	5						
G103	W	L	03/30				03/30	0	04/04	5						
G104	S	M	03/30				04/05	6	04/26	21	49.0					
FW_4	W	L	03/30				03/30	0	04/04	5						
X101	S	L	03/30				04/05	6	04/13	8	9.97					
X102	S	L	03/30				04/05	6	04/13	8	1.96					
X103	S	L	03/30				04/05	6	04/13	8	19.5					
X104	S	L	03/30				04/05	6	04/13	8	19.4					
X105	S	M	03/30				04/05	6	04/26	21	42.0					
X106	S	L	03/30				04/05	6	04/24	19	10.0					

IEPA - CLP
CHAIN OF CUSTODY

D071833

Seal #: 2537

Date Sealed: 3/27/89 By: AWV

Facility
Name : NEW LENNOX PUBLIC WELL #4
Region: MAYWOOD
County: WILL

Site Inventory # : 1970000000
Site Billing Code: SA-06
Project Manager : GREG DUNN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	X101	3/28/89	5:05 - 5:10 pm

Sample Appearance : Black to gray

Collector Comments: Slight HNU Reading

Sampler Signature : _____ Division/Company IEPA

CONTAINER No.	Code	Size	Pres	ANALYSIS	FILTERING (Y/N)	Date	Time
2	12	2oz		VOA	N	3/28-89	5:05pm
1	5	32oz		BNA, PEST/PCB	N	3-28-89	5:10pm

CHAIN OF CUSTODY CHRONICLE

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

Opened by (print): Gregory W. Dunn Signature: Gregory W. Dunn

Date: 3-28-89 Time: 4:45 pm Seal #: 2537 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): Gregory W. Dunn Signature: Gregory W. Dunn

Date: 3-29-88 Time: 10:00 A Seal #: 2538

Courier - sample pickup: IEPA personnel

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): Deanne Virsin Signature: Deanne Virsin

Date: MAR 30 1989 Time: 630 AM Seal #: 2538 Intact? (Y) / N

Lab Name: Springfield EPA Comments: _____

D071833

~~IEPA~~ - CLP
CHAIN OF CUSTODY

D071832

Seal #: 2527

Date Sealed: 3/27/89 By: AWM

Facility
Name : NEW LENNOX PUBLIC WELL #4
Region: MAYWOOD
County: WILL

Site Inventory # : 1970000000
Site Billing Code: SA-06
Project Manager : GREG DUNN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	X102	3-28-89	5:35-5:40p

Sample Appearance : Black (D.A)

Collector Comments:

Sampler Signature : Ken Corbell Division/Company IEPA

CONTAINER No.	Code	Size	Pres	ANALYSIS	FILTERING (Y/N)	Date	Time
2	12	2oz		VOA	N	3-28-89	5:35p
1	5	32oz		BNA, PEST/PCB	N	3-28-89	5:40p

CHAIN OF CUSTODY CHRONICLE

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

Opened by (print): G. Dunn Signature Gregory W. D

Date: 3-28-89 Time: 4:45 Seal #: 2527 Intact? (Y) / N

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

Sealed by (print): Gregory W. Dunn Signature: Gregory W. D

Date: 3-29-89 Time: ~~5:00~~ GD 1:15p Seal #: 2528

Courier - sample pickup: IEPA PERSONNEL

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): Deanne Virgin Signature: Deanne Virgin

Date: MAR 30 1989 Time: 8:30 AM Seal #: 2528 Intact?: (Y) / N

Lab Name: Springfield EPA Comments:

D071832

D071836

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 2535

Date Sealed: 3-27-89 By: JPT

Facility
Name : NEW LENNOX PUBLIC WELL #4
Region: MAYWOOD
County: WILL

Site Inventory # : 1970000000
Site Billing Code: SA-06
Project Manager : GREG DUNN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	X103	3-29-89	7:20 A

Sample Appearance : Oily Black

Collector Comments: 30 DAY TURNAROUND

Sampler Signature : Timothy J. Murphy Division/Company IEPA

CONTAINER No.	Code	Size	Pres	ANALYSIS	FILTERING (Y/N)	Date	Time
2	2	2oz		VOA	N	3-29-89	7:20 A
1	5	32oz		BNA, PEST/PCB	N	" "	7:20 A

CHAIN OF CUSTODY CHRONICLE

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

Opened by (print): Gregory W. Dunn Signature: Gregory W. D

Date: 3-29-89 Time: 7:10 A Seal #: 2535 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): Gregory W. Dunn Signature: Gregory

Date: 3-29-89 Time: 8:35 A Seal #: 2536

Courier - sample pickup: IEPA

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): Deanne Virgin Signature: Deanne Virgin

Date: MAR 30 1989 Time: 8:30 AM Seal #: 2536 Intact?: Y / N

Lab Name: Springfield EPA Comments:

D071836

IEPA - CLP
CHAIN OF CUSTODY

D071831

Seal #: 2539

Date Sealed: 3/27/89 By: [illegible]

Facility
Name : NEW LENNOX PUBLIC WELL #4
Region: MAYWOOD
County: WILL

Site Inventory # : 1970000000
Site Billing Code: SA-06
Project Manager : GREG DUNN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
[redacted]	X104	3-29-89	7:35A

Sample Appearance : Black oily material

Collector Comments: Seal # should be 2529 not top not 2539

Sampler Signature : Timothy J. Murphy Division/Company IEPA

CONTAINER No.	Code	Size	Pres	ANALYSIS	FILTERING (Y/N)	Date	Time
2	12	2oz		VOA	N	~~3-29-89~~ ~~7:35A~~	7:35A
1	5	32oz		BNA,PEST/PCB	N	~~7:35A~~ 3-29-89	7:35A

CHAIN OF CUSTODY CHRONICLE

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

Opened by (print): Gregory W. Dunn Signature: Gregory W. Dunn

Date: 3-29-89 Time: 7:15A Seal #: 2529 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): Gregory W. Dunn Signature: Gregory W. Dunn

Date: 3-29-89 Time: 9:25A Seal #: 2530

Courier - sample pickup: IEPA

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): Deanne Virgin Signature: Deanne Virgin

Date: 3/30/89 Time: 8:30 AM Seal #: 2530 Intact? (Y) / N

Lab Name: Springfield EPA Comments:

D071831

IEPA - CLP
CHAIN OF CUSTODY

D071840

Seal #: 2533

Date Sealed: 3-27-89 By: DJZ

Facility
Name: NEW LENNOX PUBLIC WELL #4
Region: MAYWOOD
County: WILL

Site Inventory #: 1970000000
Site Billing Code: SA-06
Project Manager: GREG DUNN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	X105	3-29-89	11:50A

Sample Appearance: Oily gas smell

Collector Comments: 30 DAY TURNAROUND Please ANALYZE ~~Sample~~ Last!!

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

CONTAINER No	Code	Size	Pres	ANALYSIS	FILTERING (Y/N)	Date	Time
2	12	2oz		VOA	N	3-29-89	11:50A
1	5	32oz		BNA, PEST/PCB	N	" "	11:50A

ANALYZE Product
On-Top.

CHAIN OF CUSTODY CHRONICLE

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

Sealed by (print): Gregory W. Dunn Signature: Gregory W. Dunn

Date: 3-29-89 Time: 11:30 Seal #: 2533 Intact?: (Y) / N

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

Sealed by (print): Gregory W. Dunn Signature: Gregory W. Dunn

Date: 3-29-89 Time: 1:30P Seal #: 2534

Courier - sample pickup: IEPA

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.

Signed by (print): Deanne Virgin Signature: Deanne Virgin

Date: MAR 30 1989 Time: 830 AM Seal #: 2534 Intact? (Y) / N

Lab Name: Springfield EPA Comments:

D071840

IEPA - CLP
CHAIN OF CUSTODY

D071837

Seal #: 2539

Date Sealed: 3/27/89 By: AWW

Facility
Name : NEW LENNOX PUBLIC WELL #4
Region: MAYWOOD
County: WILL

Site Inventory # : 1970000000
Site Billing Code: SA-06
Project Manager : GREG DUNN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
[redacted]	X106	3-29-89	12:25 pm

Sample Appearance : ~~Cle~~ Black Cinder-like

Collector Comments: 30 DAY Turnaround

Sampler Signature : Gregory W. D Division/Company IEPA

CONTAINER No.	Code	Size	Pres	ANALYSIS	FILTERING (Y/N)	Date	Time
2	12	2oz		VOA	N	3-29-89	12:25p
1	5	32oz		BNA, PEST/PCB	N	"	12:25p

CHAIN OF CUSTODY CHRONICLE

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

Opened by (print): Gregory W. Dunn Signature: Gregory W. D

Date: 3-29-89 Time: 10:40 A Seal #: 2539 Intact? (Y) N

I certify that the sample water bottle was filled and placed in coolers in my presence that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container on the date and time listed below.

Sealed by (print): Gregory W. Dunn Signature: Gregory W. D

Date: 3-29-89 Time: 1:00p Seal #: 2540

Courier - sample pickup: IEPA

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): Deanne Virgin Signature: Deanne Virgin

Date: ~~MAR 30 1989~~ Time: 8:30 AM Seal #: 2540 Intact? (Y) / N

Lab Name: Springfield EPA Comments:

D071837

IEPA - CLP
CHAIN OF CUSTODY

D071838

Seal #: 2539

Date Sealed: 3/29/89 By: AWD

Facility
Name : NEW LENNOX PUBLIC WELL #4
Region: MAYWOOD
County: WILL

Site Inventory # : 1970000000
Site Billing Code: SA-06
Project Manager : GREG DUNN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	~~[illegible]~~ CD PW#4	3-29-89	11:05 Am - 11:10A

Sample Appearance : Clear

Collector Comments: 30 DAY TURNAROUND

Sampler Signature : Ken Corkill Division/Company IEPA

CONTAINER No	Code	Size	Pres	ANALYSIS	FILTERING (Y/N)	Date	Time
2	8	40ml		VOA	N	3-29-89	11:05A
2	9	1/2g		SNA	N	"	11:10A
2	9	1/2g		PEST/PCB	N	"	11:10A

CHAIN OF CUSTODY CHRONICLE

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

Opened by (print): Gregory W. Dunn Signature: Gregory W. Dunn

Date: 3-29-89 Time: 10:40 A Seal #: 2539 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 noted below.

Sealed by (print): Gregory W. Dunn Signature: Gregory W. Dunn

Date: 3-29-89 Time: 1:00p Seal #: 2540

Courier - sample pickup: IEPA

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): Deanne Virgin Signature: Deanne Virgin

Date: MAR 30 1989 Time: 830 AM Seal #: 2540 Intact?: Y / N

Lab Name: Springfield EPA Comments:

D071838

D071835

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 2535

Date Sealed: 3-27-89 By: JAK

Facility
Name : NEW LENNOX PUBLIC WELL #4
Region: MAYWOOD
County: WILL

Site Inventory # : 1970000000
Site Billing Code: SA-06
Project Manager : GREG DUNN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	G-101 ~~X103~~	3-29-89	8:10 - 8:15A

Sample Appearance : Clear

Collector Comments: 30 DAY TURNAROUND

Sampler Signature : Timothy J. Murphy Division/Company IEPA

CONTAINER No.	Code	Size	Pres	ANALYSIS	FILTERING (Y/N)	Date	Time
2	8	40ml		VOA	N	3-29-89	8:10A
2	9	1/2g		BNA	N	"	8:15A
2	9	1/2g		PEST/PCB	N	"	8:15A

CHAIN OF CUSTODY CHRONICLE

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

Sealed by (print): Gregory W. Dunn Signature: Gregory W. Dunn

Date 3-29-89 Time 7:10 Seal # 2535 Intact? Y / N

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

Sealed by (print): Gregory W. Dunn Signature: Gregory W. Dunn

Date 3-29-89 Time: 8:35A Seal #: 2536

Courier - sample pickup: IEPA

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): Deanne Virgin Signature: Deanne Virgin

Date: MAR 30 1989 Time: 830 AM Seal #: 2536 Intact? Y / N

Lab Name: Springfield EPA Comments:

D071835

IEPA - CLP
CHAIN OF CUSTODY

D071830

Seal #: 2539

Date Sealed: 3/27/89 By: AWW

Facility
Name : NEW LENNOX PUBLIC WELL #4
Region: MAYWOOD
County: WILL

Site Inventory # : 1970000000
Site Billing Code: SA-06
Project Manager : GREG DUNN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
[redacted]	G102	3-29-89	8:55-9:00A

Sample Appearance : Clear

Collector Comments: Seal should be 2529 not 2539 30 DAY TURNAROUND

Sampler Signature : Timothy J. Murphy Division/Company IEPA

CONTAINER No.	Code	Size	Pres	ANALYSIS	FILTERING (Y/N)	Date	Time
2	8	40ml		VOA	N	3-29-89	8:55 A
2	9	1/2g		BNA	N	"	9:00 A
2	8	1/2g		PEST/PCB	N	"	9:00 A

CHAIN OF CUSTODY CHRONICLE

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

Sealed by (print): Gregory W. Dunn Signature: Gregory W. D

Date: 3-29-89 Time: 7:15 A Seal #: 2529 Intact?: Y / N

I certify that the samples listed above were filtered and placed in coolers in my presence, that each bottle was placed intact into the shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Gregory W. Dunn Signature: Gregory W. D

Date: 3-29-89 Time: 9:25 A Seal #: 2530

Courier - sample pickup: IEPA

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): Deanne Virgin Signature: Deanne Virgin

Date: 3/30/89 Time: 8:30 AM Seal #: 2530 Intact?: Y / N

Lab Name: Springfield EPA Comments:

D071830

IEPA - CLP
CHAIN OF CUSTODY

D071834

Seal #: 2537

Date Sealed: 3/27/89 By: AWW

Facility
Name : NEW LENNOX PUBLIC WELL #4
Region: MAYWOOD
County: WILL

Site Inventory # : 1970000000
Site Billing Code: SA-06
Project Manager : GREG DUNN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	G103	3-29-89	9:35A - 9:40A

Sample Appearance: Clear

Collector Comments: 30 Day Turnaround

Sampler Signature : Timothy J Murphy Division/Company IEPA

CONTAINER No.	Code	Size	Pres	ANALYSIS	FILTERING (Y/N)	Date	Time
2	8	40ml		VOA	N	3-29-89	9:35A
2	9	1/2g		BNA	N	"	9:40A
2	9	1/2g		PEST/PCB	N	"	9:40A

CHAIN OF CUSTODY CHRONICLE

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

Received by (print): Gregory W. Dunn Signature: Gregory W. Dunn

Date: 3-28-89 Time: 4:45pm Seal #: 2537 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 above.

Sealed by (print): Gregory W. Dunn Signature: Gregory W. Dunn

Date: 3-29-89 Time: 10:00A Seal #: 2538

Courier - sample pickup: IEPA

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.

Received by (print): Deanne Virgin Signature: Deanne Virgin

Date: MAR 30 1989 Time: 8:30 AM Seal #: 2538 Intact?: Y / N

Lab Name: Springfield EPA Comments:

D071834

IEPA - CLP
CHAIN OF CUSTODY

D071839

Seal #: 2533

Date Sealed: 3-27-89 By: JBZ

Facility
Name : NEW LENNOX PUBLIC WELL #4
Region: MAYWOOD
County: WILL

Site Inventory # : 1970000000
Site Billing Code: SA-06
Project Manager : GREG DUNN

LABORATORY #	SAMPLE I.D	SAMPLE DATE	SAMPLE TIME
	G-104	3-29-89	12:50 pm

Sample Appearance : Slightly oily sheen

Collector Comments: Please Analyze Last!!!!

Sampler Signature : Timothy J. Murphy Division/Company IEPA

CONTAINER No.	Code	Size	Pres	ANALYSIS	FILTERING (Y/N)	Date	Time
2	8	40ml		VOA	N	3-29-89	12:50p
2	9	1/2g		BNA	N	"	12:50p
2	9	1/2g		PEST/PCB	N	"	12:50p

Analyze Last!!

CHAIN OF CUSTODY CHRONICLE

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

Issued by (print): Gregory W. Dunn Signature: Gregory W. Dunn

Date: 3-29-89 Time: 11:30 AM Seal #: 2533 Intact?: Y / N

I certify that the sample bottle seals were intact and placed in bottles in my presence, and each bottle was placed intact in the sample shipping container. After sealing the sample shipping container at the date and time indicated.

Sealed by (print): Gregory W. Dunn Signature: Gregory W. Dunn

Date: 3-29-89 Time: 1:30 p Seal # 2534

Courier - sample pickup: IEPA

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.

Issued by (print): Deanne Virgin Signature: Deanne Virgin

Date: MAR 30 1989 Time: 830 AM Seal #: 2534 Intact?: Y / N

Lab Name: Springfield EPA Comments:

D071839

D071841

~~IEPA~~ - CLP
CHAIN OF CUSTODY

Seal #: 2539

Date Sealed: 3/27/89 By: AWN

Facility Name: NEW LENNOX PUBLIC WELL #4
Region: MAYWOOD
County: WILL

Site Inventory #: 1970000000
Site Billing Code: SA-06
Project Manager: GREG DUNN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
		3-29-89	

Sample Appearance: CLEAR

Collector Comments:

Sampler Signature: Division/Company: IEPA

CONTAINER No	Code	Size	Pres	ANALYSIS	FILTERING (Y/N)	Date	Time
2	8	40ml	—	TRIP BLANK	~	3-29-89	

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container from the sampler listed above with the shipping container and seal intact.

Received by (print): Gregory W. Dunn Signature: Gregory W. Dunn

Date: 3-29-89 Time: 10:40 A Seal #: 2539 Intact: O

I certify that the sample listed above was prepared and placed in bottles in the [illegible] after each bottle was filled intact in the sample shipping container [illegible] the sample shipping container [illegible] the seal [illegible].

Sealed by (print): Gregory W. Dunn Signature: Gregory W. Dn

Date: 3-29-89 Time: 1:00P Seal #: 2540

Courier - sample pick-up: IEPA

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): Deanne Virgin Signature: Deanne Virgin

Date: MAR 30 1989 Time: 830 AM Seal #: 2540 Intact? (Y) / N

Lab Name: Springfield EPA Comments:

D071841

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G101

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) WATER Lab Sample ID: D971835

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0405LC05

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. ____ Date Analyzed: 04/05/89

Column: (pack/cap) WIDE Dilution Factor: 1.00

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	31	
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	21	~~U~~ J
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	3	J
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	500	EJ
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	~~U~~ R
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	400	E
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	20	
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	0.2	J
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
----------	Total Xylenes	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G101

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) WATER Lab Sample ID: D971835

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0405LC05T

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. ____ Date Analyzed: 04/05/89

Column (pack/cap) WIDE Dilution Factor: 1.00

Number TICs found: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. --	2-METHYL-BUTANE	1.20	3.6	J
2. --	PENTANE	1.35	6.5	J
3. --	UNKNOWN HYDROCARBON	1.42	1.8	J
4. --	CYCLOPROPANE, 1,1-DIMETHYL-	1.52	2.0	J
5. --	UNKNOWN	1.97	5.4	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G101DL

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SFFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) WATER Lab Sample ID: D971835

Sample wt/vol: 1.0 (g/mL) ML Lab File ID: A0405LC12

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. ____ Date Analyzed: 04/05/89

Column: (pack/cap) WIDE Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl Chloride	24	DJ
75-00-3	Chloroethane	50	U
75-09-2	Methylene Chloride	25	U
67-64-1	Acetone	27	DJ
75-15-0	Carbon Disulfide	25	U
75-35-4	1,1-Dichloroethene	0.7	DJ
75-35-3	1,1-Dichloroethane	25	U
540-59-0	1,2-Dichloroethene (total)	390	DJ
67-66-3	Chloroform	25	U
107-06-2	1,2-Dichloroethane	25	U
78-93-3	2-Butanone	50	~~U~~R
71-55-6	1,1,1-Trichloroethane	25	U
56-23-5	Carbon Tetrachloride	25	U
108-05-4	Vinyl Acetate	50	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	330	D
124-48-1	Dibromochloromethane	25	U
79-00-5	1,1,2-Trichloroethane	25	U
71-43-2	Benzene	19	DJ
10061-02-6	Trans-1,3-Dichloropropene	25	U
75-25-2	Bromoform	25	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	25	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U
108-88-3	Toluene	25	U
108-90-7	Chlorobenzene	25	U
100-41-4	Ethylbenzene	25	U
100-42-5	Styrene	25	U
	Total Xylenes	25	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G101DL

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) WATER Lab Sample ID: D971835

Sample wt/vol: 1.0 (g/mL) ML Lab File ID: A0405LC12

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. ____ Date Analyzed: 04/05/89

Column (pack/cap) WIDE Dilution Factor: 5.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G101

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) WATER Lab Sample ID: D971835

Sample wt/vol: 1000 (g/mL) ML Lab File ID: APR04HK04

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. _____ dec. _____ Date Extracted: 03/30/89

Extraction: (SepF/Cont/Sonc) _____ Date Analyzed: 04/04/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

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
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	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
65-85-0	Benzoic Acid	50	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	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G101

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) WATER Lab Sample ID: D971835

Sample wt/vol: 1000 (g/mL) ML Lab File ID: APR04HK04

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 03/30/89

Extraction: (SepF/Cont/Sonc) ____ Date Analyzed: 04/04/89

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	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	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	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	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	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	20	U
56-55-3	Benzo(a)Anthracene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	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.

G101

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) _____ Lab Sample ID: D971835

Sample wt/vol: 1000 (g/mL) ML Lab File ID: AFR04HK04T

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. _____ dec. _____ Date Extracted: 03/30/89

Extraction: (SepF/Cont/Sonc) _____ Date Analyzed: 04/04/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

Number TICs found: 4

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.10	5.7	BAJ
2.	UNKNOWN ALIPHATIC HYDROCARBO	28.12	0.81	J
3.	UNKNOWN ALIPHATIC HYDROCARBO	29.57	0.89	J
4.	UNKNOWN	31.37	0.80	J

G101

EPA SAMPLE NO.

D971835

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

Name: SPRINGFIELD IEPA Contract: _____

Lab Code: _____, Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: D971835

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

Level: (low/med) LOW Date Received: 3/30/89

% Moisture: not dec. _____ dec. _____ Date Extracted: 3/31/89

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 4/24/89

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.5	U
53494-70-5	Endrin ketone	~~0.10RT.002~~	J
5103-71-9	alpha-Chlordane	0.5	U
5103-74-2	gamma-Chlordane	0.5	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.5	U
11104-28-2	Aroclor-1221	0.5	U
11141-16-5	Aroclor-1232	0.5	U
53469-21-9	Aroclor-1242	0.5	U
12672-29-6	Aroclor-1248	0.5	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

G101

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: NEW LENNOX

PUBLIC WELL #4 WILL CO. # 1970000000

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 2

Matrix (soil/water): _____ Lab Sample ID: B904119

Level (low/med): _____ Date Received: 3/29/89

% Solids: _____

Concentration Units (ug/L or mg/kg dry weight): _____

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	158	B		P	
7440-36-0	Antimony	2.1	U	S	F	
7440-38-2	Arsenic	1.2	U	S	F	
7440-39-3	Barium	28	B	E	P	
7440-41-7	Beryllium	1.6	U		P	
7440-43-9	Cadmium	1.3	B		P	
7440-70-2	Calcium	130600			P	
7440-47-3	Chromium	14.9			P	
7440-48-4	Cobalt	21.6	B		P	
7440-50-8	Copper	1.7	U		P	S
7439-89-6	Iron	188			P	J
7439-92-1	Lead	28		S	F	
7439-95-4	Magnesium	54740			P	
7439-96-5	Manganese	94			P	J
7439-97-6	Mercury	0.05	U		AV	
7440-02-0	Nickel	30.5	B		P	
7440-09-7	Potassium	4472	B		P	J
7782-49-2	Selenium	1.2	U	W	F	
7440-22-4	Silver	2.3	U		P	
7440-23-5	Sodium	82500		*	P	J
7440-28-0	Thallium	0.9	U	S W	F	
7440-62-2	Vanadium	1.8	U		P	
7440-66-6	Zinc	11	U		P	
	Cyanide	0.01	U		AS	J
	Sulfide	1	U		I	
	Sulfate	186			AS	

Color Before: Colorless Clarity Before: Clear Texture: _____

Color After: Colorless Clarity After: Clear Artifacts: _____

Comments:

Sulfide Method SW846
Sulfate Method IEPA

FORM I - IN

7/87
Rev. IFB Amendment One

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G102

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) WATER Lab Sample ID: D971830

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0405LC03

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. ____ Date Analyzed: 04/05/89

Column: (pack/cap) WIDE Dilution Factor: 1.00

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	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	UR
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
	Total Xylenes	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G102

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) WATER Lab Sample ID: D971830

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0405LC03

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. ____ Date Analyzed: 04/05/89

Column (pack/cap) WIDE Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G102

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) WATER Lab Sample ID: D971830

Sample wt/vol: 1000 (g/mL) ML Lab File ID: APR04HK03

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 03/30/89

Extraction: (SepF/Cont/Sonc) ____ Date Analyzed: 04/04/89

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.00

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

CAS NO.	COMPOUND		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
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	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
65-85-0	Benzoic Acid	50	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	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G102

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SFFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil water) WATER Lab Sample ID: D971830

Sample wt/vol: 1000 (g/mL) ML Lab File ID: APR04HK03

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 03/30/89

Extraction: (SepF/Cont/Sonc) ____ Date Analyzed: 04/04/89

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	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	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	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	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	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	20	U
56-55-3	Benzo(a)Anthracene	10	U
~~117-81-7~~	~~bis(2-Ethylhexyl)Phthalate~~	~~10~~	~~U~~
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10 +	~~U~~ 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.

G102

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) _____ Lab Sample ID: D971830

Sample wt/vol: 1000 (g/mL) ML Lab File ID: APR04H803T

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. _____ dec. _____ Date Extracted: 03/30/89

Extraction: (SepF/Cont/Sonc) _____ Date Analyzed: 04/04/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.33	8.4	BAJ
2.	UNKNOWN	13.17	1.3	J
3.	UNKNOWN	29.71	2.4	J

G102

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D971830

Name: SPRINGFIELD IEPA Contract: _____

Lab Code: _____, Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: D971830

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

Level: (low/med) LOW Date Received: 3/30/89

% Moisture: not dec. _____ dec. _____ Date Extracted: 3/31/89

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 4/24/89

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.5	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.5	U
5103-74-2	gamma-Chlordane	0.5	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.5	U
11104-28-2	Aroclor-1221	0.5	U
11141-16-5	Aroclor-1232	0.5	U
53469-21-9	Aroclor-1242	0.5	U
12672-29-6	Aroclor-1248	0.5	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

G102

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: NEW LENNOX

PUBLIC WELL #4 WILL CO. # 1970000000

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 2

Matrix (soil/water): _____ Lab Sample ID: C904120

Level (low/med): _____ Date Received: 3/29/89

% Solids: _____

Concentration Units (ug/L or mg/kg dry weight): _____

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	78	U		P	
7440-36-0	Antimony	2.1	U	S	F	
7440-38-2	Arsenic	1.2	U		F	
7440-39-3	Barium	84	B	E	P	
7440-41-7	Beryllium	0.6	U		P	
7440-43-9	Cadmium	1.8	B		P	
7440-70-2	Calcium	101300			P	
7440-47-3	Chromium	16.4			P	
7440-48-4	Cobalt	2.6	B		P	
7440-50-8	Copper	2.2	B		P	
7439-89-6	Iron	1084			P	J
7439-92-1	Lead	29		S	F	
7439-95-4	Magnesium	57420			P	
7439-96-5	Manganese	54.3			P	J
7439-97-6	Mercury	0.05	U		AV	
7440-02-0	Nickel	10.3	B		P	
7440-09-7	Potassium	4443	B		P	J
7782-49-2	Selenium	1.2	U		F	
7440-22-4	Silver	2.3	U		P	
7440-23-5	Sodium	74580		*	P	J
7440-28-0	Thallium	0.9	U	S*	F	
7440-62-2	Vanadium	1.8	U		P	
7440-66-6	Zinc	11	U		P	
	Cyanide	0.01	U		AS	J
	Sulfide	1	U		T	
	Sulfate	96			AS	

Color Before: Colorless Clarity Before: Clear Texture: _____

Color After: Colorless Clarity After: Clear Artifacts: _____

Comments:

Sulfide Method SW846
Sulfate Method IEPA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G103

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) WATER Lab Sample ID: D971834

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0405LC04

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. ____ Date Analyzed: 04/05/89

Column: (pack/cap) WIDE Dilution Factor: 1.00

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	5	U
67-64-1	Acetone	16	J
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	UR
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
	Total Xylenes	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G103

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) WATER Lab Sample ID: D971834

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0405LC04T

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. ____ Date Analyzed: 04/05/89

Column (pack/cap) WIDE Dilution Factor: 1.00

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. --	2-METHOXY-2-METHYL-PROPANE	2.13	37	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G103

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) WATER Lab Sample ID: D971834

Sample wt/vol: 1000 (g/mL) ML Lab File ID: APR04HK05

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 03/30/89

Extraction: (SepF/Cont/Sonc) ____ Date Analyzed: 04/04/89

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.00

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
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	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
65-85-0	Benzoic Acid	50	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	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G103

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) WATER Lab Sample ID: D971834

Sample wt/vol: 1000 (g/mL) ML Lab File ID: APR04HK05

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 03/30/89

Extraction: (SepF/Cont/Sonc) ____ Date Analyzed: 04/04/89

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	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	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	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	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	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	20	U
56-55-3	Benzo(a)Anthracene	10	U
~~117-81-7~~	~~bis(2-Ethylhexyl)Phthalate~~	~~10~~	~~U~~
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10 ~~9.7~~ ~~20~~	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.

G10I

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D9718I

Matrix: (soil, water) _____ Lab Sample ID: D9718I4

Sample wt/vol: 1000 (g/mL) ML Lab File ID: APR04H05T

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 03/30/89

Extraction: (SepF/Cont/Sonc) ____ Date Analyzed: 04/04/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

Number TICs found: 7

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.05	4.4	BAJ
2.	UNKNOWN	5.65	12	J
3.	UNKNOWN HYDROCARBON	28.12	2.3	J
4.	UNKNOWN HYDROCARBON	29.59	5.1	J
5.	UNKNOWN HYDROCARBON	31.37	3.3	J
6.	UNKNOWN HYDROCARBON	36.31	2.1	J
7.	UNKNOWN HYDROCARBON	39.77	1.4	J

G1C3

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D971834

Name: SPRINGFIELD IEPA Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: D971834

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

Level: (low/med) LOW Date Received: 3/30/89

% Moisture: not dec. _____ dec. _____ Date Extracted: 3/31/89

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 4/24/89

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1

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

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	~~0.05~~ RT .002	J
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.5	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.5	U
5103-74-2	gamma-Chlordane	0.5	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.5	U
11104-28-2	Aroclor-1221	0.5	U
11141-16-5	Aroclor-1232	0.5	U
53469-21-9	Aroclor-1242	0.5	U
12672-29-6	Aroclor-1248	0.5	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

G103

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: NEW LENNOX

PUBLIC WELL #4 WILL CO. # 1970000000

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 2

Matrix (soil/water): _____ Lab Sample ID: B904115

Level (low/med): _____ Date Received: 3/29/89

% Solids: _____

Concentration Units (ug/L or mg/kg dry weight): _____

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	196	B		P	
7440-36-0	Antimony	2.1	U	S	F	
7440-38-2	Arsenic	1.2	U	S	F	
7440-39-3	Barium	63	B	E	P	
7440-41-7	Beryllium	0.6	U		P	
7440-43-9	Cadmium	1.2	U		P	
7440-70-2	Calcium	138500			P	
7440-47-3	Chromium	18.6			P	
7440-48-4	Cobalt	4.7	B		P	
7440-50-8	Copper	1.7	U		P	J
7439-89-6	Iron	134			P	J
7439-92-1	Lead	16		S	F	
7439-95-4	Magnesium	68270			P	
7439-96-5	Manganese	372			P	J
7439-97-6	Mercury	0.10	B		AV	
7440-02-0	Nickel	16.3	B		P	
7440-09-7	Potassium	4771	B		P	J
7782-49-2	Selenium	1.2	U	W	F	
7440-22-4	Silver	2.3	U		P	
7440-23-5	Sodium	151700		*	P	J
7440-28-0	Thallium	0.9	U	SW	F	
7440-62-2	Vanadium	1.8	U		P	
7440-66-6	Zinc	11	U		P	
	Cyanide	0.01	U		AS	J
	Sulfide	1	U		T	
	Sulfate	139			AS	

Color Before: Colorless Clarity Before: Clear Texture: _____

Color After: Colorless Clarity After: Clear Artifacts: _____

Comments:

Sulfide Method SW846

Sulfate Method IEPA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G104

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) _____ Lab Sample ID: D971839

Sample wt/vol: 0.10 (g/mL) G Lab File ID: A0406LC16

Level: (low/med) MED Date Received: 03/30/89

% Moisture: not dec. _____ Date Analyzed: 04/06/89

Column: (pack/cap) WIDE Dilution Factor: 0.953

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	38000	U
74-83-9	Bromomethane	38000	U
75-01-4	Vinyl Chloride	38000	U
75-00-3	Chloroethane	38000	U
75-09-2	Methylene Chloride	19000	U
67-64-1	Acetone	38000	U
75-15-0	Carbon Disulfide	19000	U
75-35-4	1,1-Dichloroethene	19000	U
75-35-3	1,1-Dichloroethane	19000	U
540-59-0	1,2-Dichloroethene (total)	19000	U
67-66-3	Chloroform	19000	U
107-06-2	1,2-Dichloroethane	19000	U
78-93-3	2-Butanone	38000	~~U~~ R
71-55-6	1,1,1-Trichloroethane	19000	U
56-23-5	Carbon Tetrachloride	19000	U
108-05-4	Vinyl Acetate	38000	U
75-27-4	Bromodichloromethane	19000	U
78-87-5	1,2-Dichloropropane	19000	U
10061-01-5	cis-1,3-Dichloropropene	19000	U
79-01-6	Trichloroethene	19000	U
124-48-1	Dibromochloromethane	19000	U
79-00-5	1,1,2-Trichloroethane	19000	U
71-43-2	Benzene	270000	
10061-02-6	Trans-1,3-Dichloropropene	19000	U
75-25-2	Bromoform	19000	U
108-10-1	4-Methyl-2-Pentanone	38000	U
591-78-6	2-Hexanone	38000	U
127-18-4	Tetrachloroethene	19000	U
79-34-5	1,1,2,2-Tetrachloroethane	38000	U
108-88-3	Toluene	430000	
108-90-7	Chlorobenzene	19000	U
100-41-4	Ethylbenzene	2500000	E
100-42-5	Styrene	19000	U
----------	Total Xylenes	8400000	E

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G104

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) . . . Lab Sample ID: D971839

Sample wt/vol: 0.10 (g/mL) G Lab File ID: A0406LC16

Level: (low/med) MED Date Received: 03/30/89

% Moisture: not dec. ____ Date Analyzed: 04/06/89

Column (pack/cap) WIDE Dilution Factor: 0.953

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.

G104DL

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SFFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) _____ Lab Sample ID: D971839

Sample wt/vol: 0.10 (g/mL) ML Lab File ID: A0407LC11

Level: (low/med) MED Date Received: 03/30/89

% Moisture: not dec. _____ Date Analyzed: 04/07/89

Column: (pack/cap) WIDE Dilution Factor: 15.2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	7600	U
74-83-9	Bromomethane	7600	U
75-01-4	Vinyl Chloride	7600	U
75-00-3	Chloroethane	7600	U
75-09-2	Methylene Chloride	3800	U
67-64-1	Acetone	7600	U
75-15-0	Carbon Disulfide	3800	U
75-35-4	1,1-Dichloroethene	3800	U
75-35-3	1,1-Dichloroethane	3800	U
540-59-0	1,2-Dichloroethene (total)	3800	U
67-66-3	Chloroform	3800	U
107-06-2	1,2-Dichloroethane	3800	U
78-93-3	2-Butanone	7600	U
71-55-6	1,1,1-Trichloroethane	3800	U
56-23-5	Carbon Tetrachloride	3800	U
108-05-4	Vinyl Acetate	7600	U
75-27-4	Bromodichloromethane	3800	U
78-87-5	1,2-Dichloropropane	3800	U
10061-01-5	cis-1,3-Dichloropropene	3800	U
79-01-6	Trichloroethene	3800	U
124-48-1	Dibromochloromethane	3800	U
79-00-5	1,1,2-Trichloroethane	3800	U
71-43-2	Benzene	240000	D
10061-02-6	Trans-1,3-Dichloropropene	3800	U
75-25-2	Bromoform	3800	U
108-10-1	4-Methyl-2-Pentanone	7600	U
591-78-6	2-Hexanone	7600	U
127-18-4	Tetrachloroethene	3800	U
79-34-5	1,1,2,2-Tetrachloroethane	7600	U
108-88-3	Toluene	430000	D
108-90-7	Chlorobenzene	3800	U
100-41-4	Ethylbenzene	2300000	D
100-42-5	Styrene	3800	U
----------	Total Xylenes	11000000	D

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G104DL

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) _____ Lab Sample ID: D971839

Sample wt/vol: 0.10 (g/mL) ML Lab File ID: A0407LC11T

Level: (low/med) MED Date Received: 03/30/89

% Moisture: not dec. _____ Date Analyzed: 04/07/89

Column (pack/cap) WIDE Dilution Factor: _____

Number TICs found: 10

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. --	UNKNOWN HYDROCARBON	3.63	9400	DJ
2. --	UNKNOWN HYDROCARBON	4.67	7600	DJ
3. --	UNKNOWN HYDROCARBON	5.70	11000	DJ
4. --	UNKNOWN HYDROCARBON	10.27	9300	DJ
5. --	UNKNOWN HYDROCARBON	15.24	12000	DJ
6. --	UNKNOWN C3-BENZENE	21.54	8700	DJ
7. --	UNKNOWN HYDROCARBON	22.44	6900	DJ
8. --	UNKNOWN C3-BENZENE	22.95	12000	DJ
9. --	UNKNOWN HYDROCARBON	26.16	8500	DJ
10. --	UNKNOWN C4-BENZENE	27.59	3100	DJ

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G104

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) SOIL Lab Sample ID: D971839

Sample wt/vol: 0.12 (g/mL) G Lab File ID: APR26HK03

Level: (low/med) MED Date Received: 03/30/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 04/10/89

Extraction: (Sep/Cont/Sonc) ____ Date Analyzed: 04/26/89

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 5.88

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	970000	U
111-44-4	bis(2-Chloroethyl)Ether	970000	U
95-57-8	2-Chlorophenol	970000	U
541-73-1	1,3-Dichlorobenzene	970000	U
106-46-7	1,4-Dichlorobenzene	970000	U
100-51-6	Benzyl Alcohol	970000	U
95-50-1	1,2-Dichlorobenzene	970000	U
95-48-7	2-Methylphenol	970000	U
39638-32-9	bis(2-Chloroisopropyl)Ether	970000	U
106-44-5	4-Methylphenol	970000	U
621-64-7	N-Nitroso-Di-n-Propylamine	970000	U
67-72-1	Hexachloroethane	970000	U
98-95-3	Nitrobenzene	970000	U
78-59-1	Isophorone	970000	U
88-75-5	2-Nitrophenol	970000	U
105-67-9	2,4-Dimethylphenol	970000	U
65-85-0	Benzoic Acid	4700000	U
111-91-1	bis(2-Chloroethoxy)Methane	970000	U
120-83-2	2,4-Dichlorophenol	970000	U
120-82-1	1,2,4-Trichlorobenzene	970000	U
91-20-3	Naphthalene	1700000	
106-47-8	4-Chloroaniline	970000	U
87-68-3	Hexachlorobutadiene	970000	U
59-50-7	4-Chloro-3-Methylphenol	970000	U
91-57-6	2-Methylnaphthalene	4300000	
77-47-4	Hexachlorocyclopentadiene	970000	U
88-06-2	2,4,6-Trichlorophenol	970000	U
95-95-4	2,4,5-Trichlorophenol	4700000	U
91-58-7	2-Chloronaphthalene	970000	U
88-74-4	2-Nitroaniline	4700000	U
131-11-3	Dimethyl Phthalate	970000	U
208-96-8	Acenaphthylene	970000	U
606-20-2	2,6-Dinitrotoluene	970000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G104

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97133

Matrix: (soil water) SOIL Lab Sample ID: D9718339

Sample wt/vol: 0.12 (g/mL) G Lab File ID: APR26HK03

Level: (low/med) MED Date Received: 03/30/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 04/10/89

Extraction: (SepF/Cont/Sonc) ____ Date Analyzed: 04/26/89

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 5.88

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	4700000	U
83-32-9	Acenaphthene	180000	J
51-28-5	2,4-Dinitrophenol	4700000	U
100-02-7	4-Nitrophenol	4700000	U
132-64-9	Dibenzofuran	240000	J
121-14-2	2,4-Dinitrotoluene	970000	U
84-66-2	Diethylphthalate	970000	U
7005-72-3	4-Chlorophenyl-phenylether	970000	U
86-73-7	Fluorene	970000	U
100-10-6	4-Nitroaniline	4700000	U
534-52-1	4,6-Dinitro-2-Methylphenol	4700000	U
86-30-6	N-Nitrosodiphenylamine (1)	970000	U
101-55-3	4-Bromophenyl-phenylether	970000	U
118-74-1	Hexachlorobenzene	970000	U
87-86-5	Pentachlorophenol	4700000	U
85-01-8	Phenanthrene	580000	J
120-12-7	Anthracene	970000	U
84-74-2	Di-n-Butylphthalate	970000	U
206-44-0	Fluoranthene	48000	J
129-00-0	Pyrene	970000	U
85-68-7	Butylbenzylphthalate	970000	U
91-94-1	3,3'-Dichlorobenzidine	1900000	U
56-55-3	Benzo(a)Anthracene	970000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	970000	U
~~218-01-9~~	~~Chrysene~~	~~970000~~	~~U~~
117-81-7	bis(2-Ethylhexyl)Phthalate	970000	U
117-84-0	Di-n-Octyl Phthalate	970000	U
205-99-2	Benzo(b)Fluoranthene	970000	U
207-08-9	Benzo(k)Fluoranthene	970000	U
50-32-8	Benzo(a)Pyrene	970000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	970000	U
53-70-3	Dibenz(a,h)Anthracene	970000	U
191-24-2	Benzo(g,h,i)Perylene	970000	U

1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G104

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SFFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) _____ Lab Sample ID: D971839

Sample wt/vol: 0.12 (g/mL) ML Lab File ID: AFR26HK03T

Level: (low/med) MED Date Received: 03/30/89

% Moisture: not dec. _____ dec. _____ Date Extracted: 04/10/89

Extraction: (SepF/Cont/Sonc) _____ Date Analyzed: 04/26/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.000120

Number TICs found: 20

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN HYDROCARBON	5.98	6900000	J
2.	UNKNOWN AROMATIC HYDROCARBON	7.30	3500000	J
3.	UNKNOWN AROMATIC HYDROCARBON	7.47	4300000	J
4.	UNKNOWN AROMATIC HYDROCARBON	8.03	6000000	J
5.	UNKNOWN HYDROCARBON	8.77	3000000	J
6.	UNKNOWN AROMATIC HYDROCARBON	9.32	2000000	J
7.	UNKNOWN HYDROCARBON	9.84	2100000	J
8.	UNKNOWN HYDROCARBON	10.45	5600000	J
9.	UNKNOWN HYDROCARBON	12.52	6500000	J
10.	UNKNOWN HYDROCARBON	13.95	4700000	J
11.	UNKNOWN HYDROCARBON	14.44	5100000	J
12.	UNKNOWN METHYL NAPHTHALENE	14.64	2100000	J
13.	UNKNOWN HYDROCARBON	15.69	4300000	J
14.	UNKNOWN HYDROCARBON	15.79	2000000	J
15.	UNKNOWN HYDROCARBON	16.10	2300000	J
16.	UNKNOWN DIMETHYL NAPHTHALENE	16.19	3400000	J
17.	UNKNOWN HYDROCARBON	16.95	5800000	J
18.	UNKNOWN HYDROCARBON	18.47	2000000	J
19.	UNKNOWN HYDROCARBON	18.97	3500000	J
20.	UNKNOWN HYDROCARBON	19.49	1800000	J

G104

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D971839

Name: SPRINGFIELD IEPA Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) org. liquid Lab Sample ID: D971839

Sample wt/vol: .1774 (g/mL) g Lab File ID: _____

Level: (low/med) - Date Received: 3/30/89

% Moisture: not dec. — dec. — Date Extracted: —

Extraction: (SepF/Cont/Sonc) — Date Analyzed: 4/24/89

GPC Cleanup: (Y/N) N pH: - Dilution Factor: .1774g → 10ml

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	8	U
319-85-7	beta-BHC	8	U
319-86-8	delta-BHC	8	U
58-89-9	gamma-BHC (Lindane)	8	U
76-44-8	Heptachlor	21	
309-00-2	Aldrin	23	
1024-57-3	Heptachlor epoxide	8	U
959-98-8	Endosulfan I	8	U
60-57-1	Dieldrin	16	U
72-55-9	4,4'-DDE	16	U
72-20-8	Endrin	16	U
33213-65-9	Endosulfan II	16	U
72-54-8	4,4'-DDD	16	U
1031-07-8	Endosulfan sulfate	16	U
50-29-3	4,4'-DDT	16	U
72-43-5	Methoxychlor	80	U
53494-70-5	Endrin ketone	16	U
5103-71-9	alpha-Chlordane	80	U
5103-74-2	gamma-Chlordane	80	U
8001-35-2	Toxaphene	160	U
12674-11-2	Aroclor-1016	80	U
11104-28-2	Aroclor-1221	80	U
11141-16-5	Aroclor-1232	80	U
53469-21-9	Aroclor-1242	80	U
12672-29-6	Aroclor-1248	80	U
11097-69-1	Aroclor-1254	160	U
11096-82-5	Aroclor-1260	160	U

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

G-104

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: NEW LENNOX

PUBLIC WELL #4 WILL CO. # 1970000000

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 2

Matrix (soil/water): _____ Lab Sample ID: B904110

Level (low/med): _____ Date Received: 3/29/89

% Solids: _____

Concentration Units (ug/L or mg/kg dry weight): _____

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	529			P	
7440-36-0	Antimony	2.1	U	S	F	
7440-38-2	Arsenic	8	B	S	F	
7440-39-3	Barium	122	B	E	P	
7440-41-7	Beryllium	0.6	U		P	
7440-43-9	Cadmium	1.3	B		P	
7440-70-2	Calcium	162000			P	
7440-47-3	Chromium	23			P	
7440-48-4	Cobalt	4.2	B		P	
7440-50-8	Copper	1.7	U		P	J
7439-89-6	Iron	9967			P	J
7439-92-1	Lead	215		S	F	
7439-95-4	Magnesium	86600			P	
7439-96-5	Manganese	402			P	J
7439-97-6	Mercury	0.05	U		AV	
7440-02-0	Nickel	19	B		P	
7440-09-7	Potassium	8165			P	J
7782-49-2	Selenium	1.2	U	W	F	
7440-22-4	Silver	2.3	U		P	
7440-23-5	Sodium	158000		*	P	J
7440-28-0	Thallium	0.9	U	S W	F	
7440-62-2	Vanadium	1.8	U		P	
7440-66-6	Zinc	15	B		P	
	Cyanide	0.01	U		AS	J
	Sulfide	1	U		T	
	Sulfate	90			AS	

Color Before: Colorless Clarity Before: Clear Texture: _____

Color After: Slightly Yellow Clarity After: Clear Artifacts: Oily

Comments:

Sulfide SW846 Methodology

Sulfate IEPA Methodology

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PW_4

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) WATER Lab Sample ID: D971838

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0405LC08

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. ____ Date Analyzed: 04/05/89

Column: (pack/cap) WIDE Dilution Factor: 1.00

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	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	20	J
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	~~U~~ R
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	30	
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	1	J
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	0.05	J
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
----------	Total Xylenes	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

PW_4

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) WATER Lab Sample ID: D971838

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0405LC08

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. ____ Date Analyzed: 04/05/89

Column (pack/cap) WIDE Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PW_4

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) WATER Lab Sample ID: D971838

Sample wt/vol: 1000 (g/mL) ML Lab File ID: APR04HK06

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 03/30/89

Extraction: (SepF/Cont/Sonc) ____ Date Analyzed: 04/04/89

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.00

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
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	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
65-85-0	Benzoic Acid	50	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	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PW_4

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) WATER Lab Sample ID: D971838

Sample wt/vol: 1000 (g/mL) ML Lab File ID: APR04HK06

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 03/30/89

Extraction: (SepF/Cont/Sonc) ____ Date Analyzed: 04/04/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	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	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	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	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	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	20	U
56-55-3	Benzo(a)Anthracene	10	U
~~117-81-7~~	~~bis(2-Ethylhexyl)Phthalate~~	~~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.

FW_4

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: GFF_D Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) _____ Lab Sample ID: D971838

Sample wt/vol: 1000 (g/mL) ML Lab File ID: APR04HK06T

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 03/30/89

Extraction: (SepF/Cont/Sonc) ____ Date Analyzed: 04/04/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.10	10	BAJ

PW #4

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D971838

Lab Name: SPRINGFIELD IEPA Contract: _____

Lab Code: _____, Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: D971838

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

Level: (low/med) LOW Date Received: 3/30/89

% Moisture: not dec. _____ dec. _____ Date Extracted: 3/31/89

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 4/24/89

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	~~0.10~~ RT .02L	J
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.5	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.5	U
5103-74-2	gamma-Chlordane	0.5	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.5	U
11104-28-2	Aroclor-1221	0.5	U
11141-16-5	Aroclor-1232	0.5	U
53469-21-9	Aroclor-1242	0.5	U
12672-29-6	Aroclor-1248	0.5	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

PW #4

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: NEW LENNOX

PUBLIC WELL #4 WILL CO. # 1970000000

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 2

Matrix (soil/water): _____ Lab Sample ID: B904116

Level (low/med): _____ Date Received: 3/29/89

% Solids: _____

Concentration Units (ug/L or mg/kg dry weight): _____

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	169	B		P	
7440-36-0	Antimony	2.1	U	S	F	
7440-38-2	Arsenic	3	B	S	F	
7440-39-3	Barium	33	B	E	P	
7440-41-7	Beryllium	0.6	U		P	
7440-43-9	Cadmium	1.2	U		P	
7440-70-2	Calcium	143100			P	
7440-47-3	Chromium	15.6			P	
7440-48-4	Cobalt	1.7	U		P	
7440-50-8	Copper	1.7	U		P	J
7439-89-6	Iron	853			P	J
7439-92-1	Lead	0.8	U	S	F	
7439-95-4	Magnesium	59640			P	
7439-96-5	Manganese	34			P	J
7439-97-6	Mercury	0.05	U		AV	
7440-02-0	Nickel	4.3	U		P	
7440-09-7	Potassium	4143	B		P	J
7782-49-2	Selenium	1.2	U	W	F	
7440-22-4	Silver	2.3	U		P	
7440-23-5	Sodium	45020		*	P	J
7440-28-0	Thallium	0.9	U	S	F	
7440-62-2	Vanadium	1.8	U		P	
7440-66-6	Zinc	11	U		P	
	Cyanide	0.01	U		AS	J
	Sulfide	1.0	U		T	
	Sulfate	212			AS	

Color Before: Colorless Clarity Before: Clear Texture: _____

Color After: Colorless Clarity After: Clear Artifacts: _____

Comments:

Sulfide Method SW846

Sulfate Method IEPA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) SOIL Lab Sample ID: D971833

Sample wt/vol: 4.0 (g/mL) G Lab File ID: A0406LC08

Level: (low/med) MED Date Received: 03/30/89

% Moisture: not dec. 14 Date Analyzed: 04/06/89

Column: (pack/cap) WIDE Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	1200	U
74-83-9	Bromomethane	1200	U
75-01-4	Vinyl Chloride	1200	U
75-00-3	Chloroethane	1200	U
75-09-2	Methylene Chloride	580	U
67-64-1	Acetone	1200	U
75-15-0	Carbon Disulfide	580	U
75-35-4	1,1-Dichloroethene	580	U
75-35-3	1,1-Dichloroethane	580	U
540-59-0	1,2-Dichloroethene (total)	580	U
67-66-3	Chloroform	580	U
107-06-2	1,2-Dichloroethane	580	U
78-93-3	2-Butanone	190	JRJ
71-55-6	1,1,1-Trichloroethane	580	U
56-23-5	Carbon Tetrachloride	580	U
108-05-4	Vinyl Acetate	1200	U
75-27-4	Bromodichloromethane	580	U
78-87-5	1,2-Dichloropropane	580	U
10061-01-5	cis-1,3-Dichloropropene	580	U
79-01-6	Trichloroethene	580	U
124-48-1	Dibromochloromethane	580	U
79-00-5	1,1,2-Trichloroethane	580	U
71-43-2	Benzene	580	U
10061-02-6	Trans-1,3-Dichloropropene	580	U
75-25-2	Bromoform	580	U
108-10-1	4-Methyl-2-Pentanone	1200	U
591-78-6	2-Hexanone	1200	U
127-18-4	Tetrachloroethene	11	J
79-34-5	1,1,2,2-Tetrachloroethane	1200	U
108-88-3	Toluene	1900	
108-90-7	Chlorobenzene	580	U
100-41-4	Ethylbenzene	580	U
100-42-5	Styrene	580	U
----------	Total Xylenes	8400	

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) SOIL Lab Sample ID: D971833

Sample wt/vol: _____ (g/mL) G Lab File ID: A0406LC08T

Level: (low/med) MED Date Received: 03/30/89

% Moisture: not dec. _____ Date Analyzed: 04/06/89

Column (pack/cap) WIDE Dilution Factor: 1

Number TICs found: 10

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. --	UNKNOWN HYDROCARBON	20.72	3500	J
2. --	UNKNOWN C3-BENZENE	21.79	4000	J
3. --	UNKNOWN HYDROCARBON	22.37	5900	J
4. --	UNKNOWN C3-BENZENE	24.10	2400	J
5. --	UNKNOWN C4-BENZENE	25.02	3800	J
6. --	UNKNOWN C4-BENZENE	25.31	5000	J
7. --	UNKNOWN HYDROCARBON	26.11	7900	J
8. --	UNKNOWN C4-BENZENE	26.31	6100	J
9. --	UNKNOWN C4-BENZENE	27.42	3700	J
10. --	UNKNOWN C4-BENZENE	27.57	7200	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: EPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) SOIL Lab Sample ID: D971833

Sample wt/vol: 30.1 (g/mL) G Lab File ID: APR13HK04

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. 14 dec. ____ Date Extracted: 04/05/89

Extraction: (SepF/Cont/Sonc) ____ Date Analyzed: 04/13/89

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	3800	U
111-44-4	bis(2-Chloroethyl)Ether	3800	U
95-57-8	2-Chlorophenol	3800	U
541-73-1	1,3-Dichlorobenzene	3800	U
106-46-7	1,4-Dichlorobenzene	3800	U
100-51-6	Benzyl Alcohol	3800	U
95-50-1	1,2-Dichlorobenzene	3800	U
95-48-7	2-Methylphenol	3800	U
39638-32-9	bis(2-Chloroisopropyl)Ether	3800	U
106-44-5	4-Methylphenol	3800	U
621-64-7	N-Nitroso-Di-n-Propylamine	3800	U
67-72-1	Hexachloroethane	3800	U
98-95-3	Nitrobenzene	3800	U
78-59-1	Isophorone	3800	U
88-75-5	2-Nitrophenol	3800	U
105-67-9	2,4-Dimethylphenol	3800	U
65-85-0	Benzoic Acid	19000	U
111-91-1	bis(2-Chloroethoxy)Methane	3800	U
120-83-2	2,4-Dichlorophenol	3800	U
120-82-1	1,2,4-Trichlorobenzene	3800	U
91-20-3	Naphthalene	3800	U
106-47-8	4-Chloroaniline	3800	U
87-68-3	Hexachlorobutadiene	3800	U
59-50-7	4-Chloro-3-Methylphenol	3800	U
91-57-6	2-Methylnaphthalene	980	J
77-47-4	Hexachlorocyclopentadiene	3800	U
88-06-2	2,4,6-Trichlorophenol	3800	U
95-95-4	2,4,5-Trichlorophenol	19000	U
91-58-7	2-Chloronaphthalene	3800	U
88-74-4	2-Nitroaniline	19000	U
131-11-3	Dimethyl Phthalate	3800	U
208-96-8	Acenaphthylene	3800	U
606-20-2	2,6-Dinitrotoluene	3800	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil water) SOIL Lab Sample ID: D97183

Sample wt/vol: 30.1 (g/mL) G Lab File ID: APR13HK04

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. 14 dec. ____ Date Extracted: 04/05/89

Extraction: (SepF/Cont/Sonc) ____ Date Analyzed: 04/13/89

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	19000	U
83-32-9	Acenaphthene	3800	U
51-28-5	2,4-Dinitrophenol	19000	U
100-02-7	4-Nitrophenol	19000	U
132-64-9	Dibenzofuran	3800	U.
121-14-2	2,4-Dinitrotoluene	3800	U
84-66-2	Diethylphthalate	3800	U
7005-72-3	4-Chlorophenyl-phenylether	3800	U
86-73-7	Fluorene	3800	U
100-10-6	4-Nitroaniline	19000	U
534-52-1	4,6-Dinitro-2-Methylphenol	19000	U
86-30-6	N-Nitrosodiphenylamine (1)	3800	U
101-55-3	4-Bromophenyl-phenylether	3800	U
118-74-1	Hexachlorobenzene	3800	U
87-86-5	Pentachlorophenol	19000	U
85-01-8	Phenanthrene	590	J
120-12-7	Anthracene	3800	U
84-74-2	Di-n-Butylphthalate	3800	U
206-44-0	Fluoranthene	3800	U
129-00-0	Pyrene	990	~~U~~J
85-68-7	Butylbenzylphthalate	44000	~~U~~J
91-94-1	3,3'-Dichlorobenzidine	7600	UJ
56-55-3	Benzo(a)Anthracene	3800	UJ
~~117-81-7~~	~~bis(2-Ethylhexyl)Phthalate~~	~~3800~~	~~U~~
218-01-9	Chrysene	3800	UJ
117-81-7	bis(2-Ethylhexyl)Phthalate	9700	~~U~~J
117-84-0	Di-n-Octyl Phthalate	3800	U
205-99-2	Benzo(b)Fluoranthene	3800	U
207-08-9	Benzo(k)Fluoranthene	3800	U
50-32-8	Benzo(a)Pyrene	3800	U
193-39-5	Indeno(1,2,3-cd)Pyrene	3800	U
53-70-3	Dibenz(a,h)Anthracene	3800	U
191-24-2	Benzo(g,h,i)Perylene	3800	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: 1970000000

Lab Code: EPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil water) _____ Lab Sample ID: D97183

Sample wt/vol: 30.1 (g/mL) ML Lab File ID: APR13HK04T

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. 14 dec. ____ Date Extracted: 04/05/89

Extraction: (SepF/Cont/Sonc) ____ Date Analyzed: 04/26/89

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 0.0301

Number TICs found: 20

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.68	67000	BAJ
2.	UNKNOWN AROMATIC HYDROCARBON	9.77	2800	J
3.	UNKNOWN HYDROCARBON	10.74	7800	J
4.	UNKNOWN HYDROCARBON	12.80	9500	J
5.	UNKNOWN HYDROCARBON	13.10	4400	J
6.	UNKNOWN HYDROCARBON	14.72	11000	J
7.	UNKNOWN METHYL NAPHTHALENE	14.94	2700	J
8.	UNKNOWN HYDROCARBON	15.92	5400	J
9.	UNKNOWN HYDROCARBON	16.34	9000	J
10.	UNKNOWN DIMETHYL NAPHTHALENE	16.64	2700	J
11.	UNKNOWN HYDROCARBON	17.59	6800	J
12.	UNKNOWN HYDROCARBON	18.65	7900	J
13.	UNKNOWN HYDROCARBON	19.64	10000	J
14.	UNKNOWN HYDROCARBON	19.70	15000	J
15.	UNKNOWN HYDROCARBON	20.57	10000	J
16.	UNKNOWN HYDROCARBON	20.69	15000	J
17.	UNKNOWN HYDROCARBON	21.44	6900	J
18.	UNKNOWN HYDROCARBON	22.37	6800	J
19.	UNKNOWN HYDROCARBON	23.07	6700	J
20.	UNKNOWN HYDROCARBON	24.54	6000	J

X101

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D971833

Name: SPRNGFIELD IEPA Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: D971833

Sample wt/vol: 30.22 (g/mL) g Lab File ID: _____

Level: (low/med) LOW Date Received: 3/30/89

% Moisture: not dec. 20 dec. _____ Date Extracted: 4/4/89

Extraction: (SepF/Cont/Sonc) Sonc. Date Analyzed: 4/24/89

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
319-84-6	alpha-BHC	9	U
319-85-7	beta-BHC	9	U
319-86-8	delta-BHC	9	U
58-89-9	gamma-BHC (Lindane)	9	U
76-44-8	Heptachlor	9	U
309-00-2	Aldrin	9	U
1024-57-3	Heptachlor epoxide	9	U
959-98-8	Endosulfan I	9	U
60-57-1	Dieldrin	20	
72-55-9	4,4'-DDE	19	U
72-20-8	Endrin	19	U
33213-65-9	Endosulfan II	19	U
72-54-8	4,4'-DDD	19	U
1031-07-8	Endosulfan sulfate	19	U
50-29-3	4,4'-DDT	19	U
72-43-5	Methoxychlor	93	U
53494-70-5	Endrin ketone	19	U
5103-71-9	alpha-Chlordane	93	U
5103-74-2	gamma-Chlordane	93	U
8001-35-2	Toxaphene	190	U
12674-11-2	Aroclor-1016	93	U
11104-28-2	Aroclor-1221	93	U
11141-16-5	Aroclor-1232	93	U
53469-21-9	Aroclor-1242	93	U
12672-29-6	Aroclor-1248	93	U
11097-69-1	Aroclor-1254	190	U
11096-82-5	Aroclor-1260	190	U

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE No.: X101

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: NEW LENNOX PUBLIC WELL #4 WILL CO. # 1970000000

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 2

Matrix (soil/water): _____ Lab Sample ID: E904113

Level (low/med): _____ Date Received: 3/29/89

% Solids: 88.2

Concentration Units (ug/L or mg/kg dry weight): _____

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	~~7665~~ 7670			P	
7440-36-0	Antimony	1.81	B	S	F	
7440-38-2	Arsenic	4.25		S,N	F	J
7440-39-3	Barium	150			P	
7440-41-7	Beryllium	~~0.89~~ 0.8			P	
7440-43-9	Cadmium	~~67~~ 68.			P	
7440-70-2	Calcium	32220		*	P	J
7440-47-3	Chromium	~~32.8~~ 35			P	J
7440-48-4	Cobalt	~~6.6~~ 7 U	~~B~~		P	J
7440-50-8	Copper	107. ~~1.02~~	~~B~~		P	J
7439-89-6	Iron	21460			P	
7439-92-1	Lead	919			P	J
7439-95-4	Magnesium	~~16950~~ 16960		*	P	J
7439-96-5	Manganese	~~279~~ 270			P	
7439-97-6	Mercury	0.01	U		AV	
7440-02-0	Nickel	~~17.7~~ 19		*	P	J
7440-09-7	Potassium	~~1074~~ 1047	U		P	J
7782-49-2	Selenium	0.18	U	S,*	F	
7440-22-4	Silver	0 ~~.25~~ 0.5	U		P	
7440-23-5	Sodium	138 U	~~B~~		P	
7440-28-0	Thallium	0.15	B		F	
7440-62-2	Vanadium	~~18.6~~ 19			P	
7440-66-6	Zinc	~~624~~ 625			P	
	Cyanide	0.56	U		AV	

Color Before: Gray Clarity Before: Opaque Texture: Medium

Color After: Green Clarity After: Cloudy Artifacts: _____

Comments:

FORM I - IN

7/87
Rev. IFB Amendment One

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) SOIL Lab Sample ID: 71832

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0407LC03

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. 29 Date Analyzed: 04/07/89

Column: (pack/cap) WIDE Dilution Factor: 1.00

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	7	U
67-64-1	Acetone	11	J
75-15-0	Carbon Disulfide	7	U
75-35-4	1,1-Dichloroethene	7	U
75-35-3	1,1-Dichloroethane	7	U
540-59-0	1,2-Dichloroethene (total)	7	U
67-66-3	Chloroform	7	U
107-06-2	1,2-Dichloroethane	7	U
78-93-3	2-Butanone	14	~~U~~ R
71-55-6	1,1,1-Trichloroethane	7	U
56-23-5	Carbon Tetrachloride	7	U
108-05-4	Vinyl Acetate	14	U
75-27-4	Bromodichloromethane	7	U
78-87-5	1,2-Dichloropropane	7	U
10061-01-5	cis-1,3-Dichloropropene	7	U
79-01-6	Trichloroethene	7	U
124-48-1	Dibromochloromethane	7	U
79-00-5	1,1,2-Trichloroethane	7	U
71-43-2	Benzene	7	U
10061-02-6	Trans-1,3-Dichloropropene	7	U
75-25-2	Bromoform	7	U
108-10-1	4-Methyl-2-Pentanone	14	U
591-78-6	2-Hexanone	14	U
127-18-4	Tetrachloroethene	7	U
79-34-5	1,1,2,2-Tetrachloroethane	14	U
108-88-3	Toluene	7	U
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	7	U
100-42-5	Styrene	7	U
----------	Total Xylenes	7	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) SOIL Lab Sample ID: 71832

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0407LC03

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. 29 Date Analyzed: 04/07/89

Column (pack/cap) WIDE Dilution Factor: 1.00

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.

X102

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) SOIL Lab Sample ID: D971832

Sample wt/vol: 30.6 (g/mL) G Lab File ID: APR13HK06

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. 29 dec. ____ Date Extracted: 04/05/89

Extraction: (SepF/Cont/Sonc) ____ Date Analyzed: 04/13/89

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 2.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	910	U
111-44-4	bis(2-Chloroethyl)Ether	910	U
95-57-8	2-Chlorophenol	910	U
541-73-1	1,3-Dichlorobenzene	910	U
106-46-7	1,4-Dichlorobenzene	910	U
100-51-6	Benzyl Alcohol	910	U
95-50-1	1,2-Dichlorobenzene	910	U
95-48-7	2-Methylphenol	910	U
39638-32-9	bis(2-Chloroisopropyl)Ether	910	U
106-44-5	4-Methylphenol	910	U
621-64-7	N-Nitroso-Di-n-Propylamine	910	U
67-72-1	Hexachloroethane	910	U
98-95-3	Nitrobenzene	910	U
78-59-1	Isophorone	910	U
88-75-5	2-Nitrophenol	910	U
105-67-9	2,4-Dimethylphenol	910	U
65-85-0	Benzoic Acid	4400	U
111-91-1	bis(2-Chloroethoxy)Methane	910	U
120-83-2	2,4-Dichlorophenol	910	U
120-82-1	1,2,4-Trichlorobenzene	910	U
91-20-3	Naphthalene	910	U
106-47-8	4-Chloroaniline	910	U
87-68-3	Hexachlorobutadiene	910	U
59-50-7	4-Chloro-3-Methylphenol	910	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	910	U
88-06-2	2,4,6-Trichlorophenol	910	U
95-95-4	2,4,5-Trichlorophenol	4400	U
91-58-7	2-Chloronaphthalene	910	U
88-74-4	2-Nitroaniline	4400	U
131-11-3	Dimethyl Phthalate	910	U
208-96-8	Acenaphthylene	910	U
606-20-2	2,6-Dinitrotoluene	910	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) SOIL Lab Sample ID: D971832

Sample wt/vol: 30.6 (g/mL) G Lab File ID: APR13HK06

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. 29 dec. ____ Date Extracted: 04/05/89

Extraction: (SepF/Cont/Sonc) ____ Date Analyzed: 04/13/89

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 2.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	4400	U
83-32-9	Acenaphthene	910	U
51-28-5	2,4-Dinitrophenol	4400	U
100-02-7	4-Nitrophenol	4400	U
132-64-9	Dibenzofuran	910	U
121-14-2	2,4-Dinitrotoluene	910	U
84-66-2	Diethylphthalate	32	J
7005-72-3	4-Chlorophenyl-phenylether	910	U
86-73-7	Fluorene	910	U
100-10-6	4-Nitroaniline	4400	U
534-52-1	4,6-Dinitro-2-Methylphenol	4400	U
86-30-6	N-Nitrosodiphenylamine (1)	910	U
101-55-3	4-Bromophenyl-phenylether	910	U
118-74-1	Hexachlorobenzene	910	U
87-86-5	Pentachlorophenol	4400	U
85-01-8	Phenanthrene	140	J
120-12-7	Anthracene	37	J
84-74-2	Di-n-Butylphthalate	910	U
206-44-0	Fluoranthene	200	~~U~~ J
129-00-0	Pyrene	190	~~U~~ J
85-68-7	Butylbenzylphthalate	910	U
91-94-1	3,3'-Dichlorobenzidine	1800	U
56-55-3	Benzo(a)Anthracene	910	U
~~117-81-7~~	~~bis(2-Ethylhexyl)Phthalate~~	~~910~~	~~U~~
218-01-9	Chrysene	910	U
117-81-7	bis(2-Ethylhexyl)Phthalate	910 ~~130~~	~~BCU~~
117-84-0	Di-n-Octyl Phthalate	910	U
205-99-2	Benzo(b)Fluoranthene	910	U
207-08-9	Benzo(k)Fluoranthene	910	U
50-32-8	Benzo(a)Pyrene	910	U
193-39-5	Indeno(1,2,3-cd)Pyrene	910	U
53-70-3	Dibenz(a,h)Anthracene	910	U
191-24-2	Benzo(g,h,i)Perylene	910	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: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) _____ Lab Sample ID: D971832

Sample wt/vol: 30.6 (g/mL) ML Lab File ID: APR13HK06T

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. 29 dec. _____ Date Extracted: 04/05/89

Extraction: (SepF/Cont/Sonc) _____ Date Analyzed: 04/13/89

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 0.0306

Number TICs found: 16

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.93	6200	BAJ
2.	UNKNOWN	6.48	1200	BAJ
3.	UNKNOWN	7.50	99	BAJ
4.	UNKNOWN	8.50	110	AJ
5.	UNKNOWN	12.60	120	J
6.	UNKNOWN	19.44	63	J
7.	UNKNOWN HYDROCARBON	19.70	75	J
8.	UNKNOWN HYDROCARBON	21.49	100	J
9.	UNKNOWN HYDROCARBON	22.39	110	J
10.	UNKNOWN HYDROCARBON	23.09	120	J
11.	UNKNOWN HYDROCARBON	24.17	120	J
12.	UNKNOWN HYDROCARBON	24.52	130	J
13.	UNKNOWN HYDROCARBON	29.52	65	J
14.	UNKNOWN	31.94	77	J
15.	UNKNOWN HYDROCARBON	33.39	90	J
16.	UNKNOWN HYDROCARBON	39.37	99	J

X102

EPA SAMPLE NO.

D971832

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: SPRINGFIELD IEPA Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: D971832

Sample wt/vol: 31.02 (g/mL) g Lab File ID: _____

Level: (low/med) LOW Date Received: 3/30/89

% Moisture: not dec. 29% dec. _____ Date Extracted: 4/4/89

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 4/24/89

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	11	U
319-85-7	beta-BHC	11	U
319-86-8	delta-BHC	11	U
58-89-9	gamma-BHC (Lindane)	11	U
76-44-8	Heptachlor	11	U
309-00-2	Aldrin	11	U
1024-57-3	Heptachlor epoxide	11	U
959-98-8	Endosulfan I	11	U
60-57-1	Dieldrin	23	U
72-55-9	4,4'-DDE	29	
72-20-8	Endrin	23	U
33213-65-9	Endosulfan II	23	U
72-54-8	4,4'-DDD	23	U
1031-07-8	Endosulfan sulfate	23	U
50-29-3	4,4'-DDT	~~23~~ 19	J
72-43-5	Methoxychlor	110	U
53494-70-5	Endrin ketone	23	U
5103-71-9	alpha-Chlordane	110	U
5103-74-2	gamma-Chlordane	~~HORT~~ 49	J
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	110	U
11104-28-2	Aroclor-1221	110	U
11141-16-5	Aroclor-1232	110	U
53469-21-9	Aroclor-1242	110	U
12672-29-6	Aroclor-1248	110	U
11097-69-1	Aroclor-1254	220	U
11096-82-5	Aroclor-1260	220	U

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: NEW LENNOX

PUBLIC WELL #4 WILL CO. # 1970000000

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 2

Matrix (soil/water): _____ Lab Sample ID: B904114

Level (low/med): _____ Date Received: 3/29/89

% Solids: 70.2

Concentration Units (ug/L or mg/kg dry weight): _____

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	11080			P	
7440-36-0	Antimony	0.40	U		F	
7440-38-2	Arsenic	7.78		S,N	F	J
7440-39-3	Barium	124			P	
7440-41-7	Beryllium	~~0.9609~~			P	
7440-43-9	Cadmium	~~0.2307~~	U		P	
7440-70-2	Calcium	21600		*	P	J
7440-47-3	Chromium	~~16.5~~ 18			P	J
7440-48-4	Cobalt	~~10.6~~ 11			P	J
7440-50-8	Copper	24		E	P	J
7439-89-6	Iron	22600			P	J
7439-92-1	Lead	80			P	J
7439-95-4	Magnesium	12360		*	P	J
7439-96-5	Manganese	~~1437~~ 1427			P	
7439-97-6	Mercury	0.09			AV	
7440-02-0	Nickel	~~19~~ 20		*	P	J
7440-09-7	Potassium	~~1850~~ 1800	U		P	J
7782-49-2	Selenium	0.38		*	F	
7440-22-4	Silver	~~0.440~~ 0.5	U		P	
7440-23-5	Sodium	56 U	B		P	
7440-28-0	Thallium	0.38	B		F	
7440-62-2	Vanadium	~~27~~ 28			P	
7440-66-6	Zinc	~~107~~ 109		E	P	
	Cyanide	0.58	U		AS	

Color Before: Black Clarity Before: Opaque Texture: Medium

Color After: Green Clarity After: Cloudy Artifacts: _____

Comments:

FORM I - IN

7/87

Rev. IFB Amendment One

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) SOIL Lab Sample ID: D971836

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0406LC07

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. 17 Date Analyzed: 04/06/89

Column: (pack/cap) WIDE Dilution Factor: 1.00

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	47	
67-64-1	Acetone	13	J
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-35-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	12	~~U~~ R
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	12	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	12	UJ
591-78-6	2-Hexanone	12	UJ
127-18-4	Tetrachloroethene	6	UJ
79-34-5	1,1,2,2-Tetrachloroethane	12	UJ
108-88-3	Toluene	6	UJ
108-90-7	Chlorobenzene	6	UJ
100-41-4	Ethylbenzene	6	UJ
100-42-5	Styrene	6	UJ
----------	Total Xylenes	6	UJ

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) SOIL Lab Sample ID: D971836

Sample wt/vol: _____ (g/mL) G Lab File ID: A0406LC07T

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. 17 Date Analyzed: 04/06/89

Column (pack/cap) _____ Dilution Factor: 1

Number TICs found: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. --	UNKNOWN HYDROCARBON	20.77	3.5	J
2. --	UNKNOWN	21.35	1.7	J
3. --	UNKNOWN	23.90	2.6	J
4. --	UNKNOWN	25.44	2.4	J
5. --	TRICHLOROFLUOROMETHANE	1.28	4.2	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) SOIL Lab Sample ID: D9718336

Sample wt/vol: 30.7 (g/mL) G Lab File ID: APR13HK08

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. 17 dec. ____ Date Extracted: 04/05/89

Extraction: (SepF/Cont/Sonc) ____ Date Analyzed: 04/13/89

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 20.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/KG	Q
108-95-2	Phenol	7800	U
111-44-4	bis(2-Chloroethyl)Ether	7800	U
95-57-8	2-Chlorophenol	7800	U
541-73-1	1,3-Dichlorobenzene	7800	U
106-46-7	1,4-Dichlorobenzene	7800	U
100-51-6	Benzyl Alcohol	7800	U
95-50-1	1,2-Dichlorobenzene	7800	U
95-48-7	2-Methylphenol	7800	U
39638-32-9	bis(2-Chloroisopropyl)Ether	7800	U
106-44-5	4-Methylphenol	7800	U
621-64-7	N-Nitroso-Di-n-Propylamine	7800	U
67-72-1	Hexachloroethane	7800	U
98-95-3	Nitrobenzene	7800	U
78-59-1	Isophorone	7800	U
88-75-5	2-Nitrophenol	7800	U
105-67-9	2,4-Dimethylphenol	7800	U
65-85-0	Benzoic Acid	38000	U
111-91-1	bis(2-Chloroethoxy)Methane	7800	U
120-83-2	2,4-Dichlorophenol	7800	U
120-82-1	1,2,4-Trichlorobenzene	7800	U
91-20-3	Naphthalene	89	J
106-47-8	4-Chloroaniline	7800	U
87-68-3	Hexachlorobutadiene	7800	U
59-50-7	4-Chloro-3-Methylphenol	7800	U
91-57-6	2-Methylnaphthalene	110	J
77-47-4	Hexachlorocyclopentadiene	7800	U
88-06-2	2,4,6-Trichlorophenol	7800	U
95-95-4	2,4,5-Trichlorophenol	38000	U
91-58-7	2-Chloronaphthalene	7800	U
88-74-4	2-Nitroaniline	38000	U
131-11-3	Dimethyl Phthalate	7800	U
208-96-8	Acenaphthylene	7800	U
606-20-2	2,6-Dinitrotoluene	7800	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) SOIL Lab Sample ID: D97183G

Sample wt/vol: 30.7 (g/mL) G Lab File ID: APR13H#02

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. 17 dec. _____ Date Extracted: 04/05/89

Extraction: (SepF/Cont/Sonc) _____ Date Analyzed: 04/13/89

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 20.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	38000	U
83-32-9	Acenaphthene	810	J
51-28-5	2,4-Dinitrophenol	38000	U
100-02-7	4-Nitrophenol	38000	U
132-64-9	Dibenzofuran	410	J
121-14-2	2,4-Dinitrotoluene	7800	U
84-66-2	Diethylphthalate	7800	U
7005-72-3	4-Chlorophenyl-phenylether	7800	U
86-73-7	Fluorene	860	J
100-10-6	4-Nitroaniline	38000	U
534-52-1	4,6-Dinitro-2-Methylphenol	38000	U
86-30-6	N-Nitrosodiphenylamine (1)	7800	U
101-55-3	4-Bromophenyl-phenylether	7800	U
118-74-1	Hexachlorobenzene	7800	U
87-86-5	Pentachlorophenol	38000	U
85-01-8	Phenanthrene	5600	J
120-12-7	Anthracene	1700	J
84-74-2	Di-n-Butylphthalate	7800	U
206-44-0	Fluoranthene	3500	~~U~~J
129-00-0	Pyrene	3500	~~U~~J
85-68-7	Butylbenzylphthalate	7800	U
91-94-1	3,3'-Dichlorobenzidine	15000	U
56-55-3	Benzo(a)Anthracene	7800	U
~~117-81-7~~	~~bis(2-Ethylhexyl)Phthalate~~	~~7800~~	~~U~~
218-01-9	Chrysene	2500	~~U~~J
117-81-7	bis(2-Ethylhexyl)Phthalate	5400	~~U~~J
117-84-0	Di-n-Octyl Phthalate	7800	U
205-99-2	Benzo(b)Fluoranthene	7800	U
207-08-9	Benzo(k)Fluoranthene	7800	U
50-32-8	Benzo(a)Pyrene	7800	U
193-39-5	Indeno(1,2,3-cd)Pyrene	7800	U
53-70-3	Dibenz(a,h)Anthracene	7800	U
191-24-2	Benzo(g,h,i)Perylene	7800	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: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) _____ Lab Sample ID: D971836

Sample wt/vol: 30.7 (g/mL) ML Lab File ID: APR13HK08T

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. 17 dec. _____ Date Extracted: 04/05/89

Extraction: (SepF/Cont/Sonc) _____ Date Analyzed: 04/17/89

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 0.0307

Number TICs found: 20

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.62	34000	BAJ
2.	UNKNOWN HYDROCARBON	19.72	6200	J
3.	UNKNOWN	20.07	1200	J
4.	UNKNOWN HYDROCARBON	20.65	8200	J
5.	UNKNOWN	21.09	1300	J
6.	UNKNOWN HYDROCARBON	21.40	6400	J
7.	UNKNOWN	21.84	800	J
8.	UNKNOWN HYDROCARBON	22.19	820	J
9.	UNKNOWN HYDROCARBON	22.30	960	J
10.	UNKNOWN HYDROCARBON	22.50	960	J
11.	UNKNOWN HYDROCARBON	22.67	840	J
12.	UNKNOWN HYDROCARBON	23.02	800	J
13.	UNKNOWN HYDROCARBON	23.34	970	J
14.	UNKNOWN HYDROCARBON	23.50	950	J
15.	UNKNOWN HYDROCARBON	23.92	910	J
16.	UNKNOWN HYDROCARBON	24.42	1600	J
17.	UNKNOWN HYDROCARBON	25.16	1300	J
18.	UNKNOWN HYDROCARBON	25.91	1700	J
19.	UNKNOWN HYDROCARBON	26.97	1400	J
20.	UNKNOWN HYDROCARBON	29.14	810	J

1'103

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D971836

Lab Name: SPRINGFIELD IEPA Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: D971836

Sample wt/vol: 31.97 (g/mL) g Lab File ID: _____

Level: (low/med) LOW Date Received: 3/30/89

% Moisture: not dec. 17Do dec. _____ Date Extracted: 4/4/89

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 4/24/89

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	10	U
319-85-7	beta-BHC	10	U
319-86-8	delta-BHC	10	U
58-89-9	gamma-BHC (Lindane)	10	U
76-44-8	Heptachlor	10	U
309-00-2	Aldrin	16	
1024-57-3	Heptachlor epoxide	10	U
959-98-8	Endosulfan I	10	U
60-57-1	Dieldrin	19	U
72-55-9	4,4'-DDE	19	U
72-20-8	Endrin	19	U
33213-65-9	Endosulfan II	19	U
72-54-8	4,4'-DDD	19	U
1031-07-8	Endosulfan sulfate	19	U
50-29-3	4,4'-DDT	19	U
72-43-5	Methoxychlor	212	
53494-70-5	Endrin ketone	19	U
5103-71-9	alpha-Chlordane	96	U
5103-74-2	gamma-Chlordane	96	U
8001-35-2	Toxaphene	190	U
12674-11-2	Aroclor-1016	96	U
11104-28-2	Aroclor-1221	96	U
11141-16-5	Aroclor-1232	96	U
53469-21-9	Aroclor-1242	96	U
12672-29-6	Aroclor-1248	96	U
11097-69-1	Aroclor-1254	190	U
11096-82-5	Aroclor-1260	190	U

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1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X 103

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: NEW LENNOX

PUBLIC WELL #4 WILL CO. # 1970000000

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 2

Matrix (soil/water): _____ Lab Sample ID: B904117

Level (low/med): _____ Date Received: 3/29/89

% Solids: 83.7

Concentration Units (ug/L or mg/kg dry weight): _____

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	~~6470~~ 6480			P	
7440-36-0	Antimony	1.91	B	S	F	
7440-38-2	Arsenic	8.30		N	F	J
7440-39-3	Barium	117			P	
7440-41-7	Beryllium	0.6	B		P	
7440-43-9	Cadmium	~~3~~ 4			P	
7440-70-2	Calcium	37000		*	P	J
7440-47-3	Chromium	~~29~~ 32			P	J
7440-48-4	Cobalt	~~3.7~~ 4.2	BU		P	J
7440-50-8	Copper	~~66.8~~ 66			P	J
7439-89-6	Iron	23000			P	
7439-92-1	Lead	~~285~~ 286			P	J
7439-95-4	Magnesium	22300		*	P	J
7439-96-5	Manganese	~~230~~ 220			P	
7439-97-6	Mercury	0.01	U		AV	
7440-02-0	Nickel	~~18.6~~ 20		*	P	J
7440-09-7	Potassium	~~1265~~ 1230			P	J
7782-49-2	Selenium	0.37	B	W,*	F	
7440-22-4	Silver	0.36	U		P	
7440-23-5	Sodium	~~1928~~ 1930			P	
7440-28-0	Thallium	0.37	B		F	
7440-62-2	Vanadium	~~15~~ 16			P	
7440-66-6	Zinc	~~764~~ 770			P	
	Cyanide	0.56	U		AS	

Color Before: Black Clarity Before: Opaque Texture: Course

Color After: Green Clarity After: Clear Artifacts: _____

Comments:

FORM I - IN

7/87

Rev. IFB Amendment One

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SFFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) SOIL Lab Sample ID: D971831

Sample wt/vol: 4.0 (g/mL) G Lab File ID: A0407LC07

Level: (low/med) MED Date Received: 03/30/89

% Moisture: not dec. 12 Date Analyzed: 04/07/89

Column: (pack/cap) WIDE Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	1100	U
74-83-9	Bromomethane	1100	U
75-01-4	Vinyl Chloride	1100	U
75-00-3	Chloroethane	1100	U
75-09-2	Methylene Chloride	570	U
67-64-1	Acetone	1100	U
75-15-0	Carbon Disulfide	570	U
75-35-4	1,1-Dichloroethene	570	U
75-35-3	1,1-Dichloroethane	570	U
540-59-0	1,2-Dichloroethene (total)	570	U
67-66-3	Chloroform	570	U
107-06-2	1,2-Dichloroethane	570	U
78-93-3	2-Butanone	310	J
71-55-6	1,1,1-Trichloroethane	570	U
56-23-5	Carbon Tetrachloride	570	U
108-05-4	Vinyl Acetate	1100	U
75-27-4	Bromodichloromethane	570	U
78-87-5	1,2-Dichloropropane	570	U
10061-01-5	cis-1,3-Dichloropropene	570	U
79-01-6	Trichloroethene	570	U
124-48-1	Dibromochloromethane	570	U
79-00-5	1,1,2-Trichloroethane	570	U
71-43-2	Benzene	950	
10061-02-6	Trans-1,3-Dichloropropene	570	U
75-25-2	Bromoform	570	U
108-10-1	4-Methyl-2-Pentanone	1100	U
591-78-6	2-Hexanone	1100	U
127-18-4	Tetrachloroethene	570	U
79-34-5	1,1,2,2-Tetrachloroethane	1100	U
108-88-3	Toluene	11000	
108-90-7	Chlorobenzene	570	U
100-41-4	Ethylbenzene	6600	
100-42-5	Styrene	570	U
	Total Xylenes	55000	E

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) SOIL Lab Sample ID: D971831

Sample wt/vol: _____ (g/mL) G Lab File ID: A0407LC07T

Level: (low/med) MED Date Received: 03/30/89

% Moisture: not dec. 12 Date Analyzed: 04/07/89

Column (pack/cap) WIDE Dilution Factor: 1

Number TICs found: 10

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. --	UNKNOWN C3-BENZENE	21.52	87000	J
2. --	UNKNOWN C3-BENZENE	21.82	38000	J
3. --	UNKNOWN C3-BENZENE	22.95	130000	J
4. --	UNKNOWN C3-BENZENE	24.14	37000	J
5. --	UNKNOWN C4-BENZENE	25.06	36000	J
6. --	UNKNOWN C4-BENZENE	25.31	63000	J
7. --	UNKNOWN C4-BENZENE	26.09	70000	J
8. --	UNKNOWN C4-BENZENE	26.34	78000	J
9. --	UNKNOWN C4-BENZENE	27.44	35000	J
10. --	UNKNOWN C4-BENZENE	27.59	59000	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104DL

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) SOIL Lab Sample ID: D971831

Sample wt/vol: 4.0 (g/mL) G Lab File ID: A0407LC13

Level: (low/med) MED Date Received: 03/30/89

% Moisture: not dec. 12 Date Analyzed: 04/07/89

Column: (pack/cap) WIDE Dilution Factor: 4.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	4500	U
74-83-9	Bromomethane	4500	U
75-01-4	Vinyl Chloride	4500	U
75-00-3	Chloroethane	4500	U
75-09-2	Methylene Chloride	2300	U
67-64-1	Acetone	4500	U
75-15-0	Carbon Disulfide	2300	U
75-35-4	1,1-Dichloroethene	2300	U
75-35-3	1,1-Dichloroethane	2300	U
540-59-0	1,2-Dichloroethene (total)	2300	U
67-66-3	Chloroform	2300	U
107-06-2	1,2-Dichloroethane	2300	U
78-93-3	2-Butanone	4500	UR
71-55-6	1,1,1-Trichloroethane	2300	U
56-23-5	Carbon Tetrachloride	2300	U
108-05-4	Vinyl Acetate	4500	U
75-27-4	Bromodichloromethane	2300	U
78-87-5	1,2-Dichloropropane	2300	U
10061-01-5	cis-1,3-Dichloropropene	2300	U
79-01-6	Trichloroethene	2300	U
124-48-1	Dibromochloromethane	2300	U
79-00-5	1,1,2-Trichloroethane	2300	U
71-43-2	Benzene	1000	DJ
10061-02-6	Trans-1,3-Dichloropropene	2300	U
75-25-2	Bromoform	2300	U
108-10-1	4-Methyl-2-Pentanone	4500	U
591-78-6	2-Hexanone	4500	U
127-18-4	Tetrachloroethene	2300	U
79-34-5	1,1,2,2-Tetrachloroethane	4500	U
108-88-3	Toluene	11000	D
108-90-7	Chlorobenzene	2300	U
100-41-4	Ethylbenzene	6500	D
100-42-5	Styrene	2300	U
----------	Total Xylenes	55000	D

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X104DL

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) SOIL Lab Sample ID: D971831

Sample wt/vol: 4.0 (g/mL) G Lab File ID: A0407LC13

Level: (low/med) MED Date Received: 03/30/89

% Moisture: not dec. 12 Date Analyzed: 04/07/89

Column (pack/cap) WIDE Dilution Factor: 4.00

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.

X104

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) SOIL Lab Sample ID: D97183T1

Sample wt/vol: 30.9 (g/mL) G Lab File ID: APR13HK05

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. 12 dec. ____ Date Extracted: 04/05/89

Extraction: (SepF/Cont/Sonc) ____ Date Analyzed: 04/13/89

GPC Cleanup: (Y/N) Y pH: 6.0 Dilution Factor: 20.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	7300	U
111-44-4	bis(2-Chloroethyl)Ether	7300	U
95-57-8	2-Chlorophenol	7300	U
541-73-1	1,3-Dichlorobenzene	7300	U
106-46-7	1,4-Dichlorobenzene	7300	U
100-51-6	Benzyl Alcohol	7300	U
95-50-1	1,2-Dichlorobenzene	7300	U
95-48-7	2-Methylphenol	460	J
39638-32-9	bis(2-Chloroisopropyl)Ether	7300	U
106-44-5	4-Methylphenol	7300	U
621-64-7	N-Nitroso-Di-n-Propylamine	7300	U
67-72-1	Hexachloroethane	7300	U
98-95-3	Nitrobenzene	7300	U
78-59-1	Isophorone	7300	U
88-75-5	2-Nitrophenol	7300	U
105-67-9	2,4-Dimethylphenol	7300	U
65-85-0	Benzoic Acid	35000	U
111-91-1	bis(2-Chloroethoxy)Methane	7300	U
120-83-2	2,4-Dichlorophenol	7300	U
120-82-1	1,2,4-Trichlorobenzene	7300	U
91-20-3	Naphthalene	27000	
106-47-8	4-Chloroaniline	7300	U
87-68-3	Hexachlorobutadiene	7300	U
59-50-7	4-Chloro-3-Methylphenol	7300	U
91-57-6	2-Methylnaphthalene	72000	
77-47-4	Hexachlorocyclopentadiene	7300	U
88-06-2	2,4,6-Trichlorophenol	7300	U
95-95-4	2,4,5-Trichlorophenol	35000	U
91-58-7	2-Chloronaphthalene	7300	U
88-74-4	2-Nitroaniline	35000	U
131-11-3	Dimethyl Phthalate	7300	U
208-96-8	Acenaphthylene	7300	U
606-20-2	2,6-Dinitrotoluene	7300	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) SOIL Lab Sample ID: D97183I

Sample wt/vol: 30.9 (g/mL) G Lab File ID: APR13HK05

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. 12 dec. ____ Date Extracted: 04/05/89

Extraction: (SepF/Cont/Sonc) ____ Date Analyzed: 04/13/89

GPC Cleanup: (Y/N) Y pH: 6.0 Dilution Factor: 20.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	35000	U
83-32-9	Acenaphthene	1900	J
51-28-5	2,4-Dinitrophenol	35000	U
100-02-7	4-Nitrophenol	35000	U
132-64-9	Dibenzofuran	7300	U
121-14-2	2,4-Dinitrotoluene	7300	U
84-66-2	Diethylphthalate	7300	U
7005-72-3	4-Chlorophenyl-phenylether	7300	U
86-73-7	Fluorene	4000	J
100-10-6	4-Nitroaniline	35000	U
534-52-1	4,6-Dinitro-2-Methylphenol	35000	U
86-30-6	N-Nitrosodiphenylamine (1)	7300	U
101-55-3	4-Bromophenyl-phenylether	7300	U
118-74-1	Hexachlorobenzene	7300	U
87-86-5	Pentachlorophenol	35000	U
85-01-8	Phenanthrene	17000	
120-12-7	Anthracene	2300	J
84-74-2	Di-n-Butylphthalate	7300	U
206-44-0	Fluoranthene	7300	U
129-00-0	Pyrene	7300	U
85-68-7	Butylbenzylphthalate	7300	U
91-94-1	3,3'-Dichlorobenzidine	15000	U
56-55-3	Benzo(a)Anthracene	7300	U
~~117-81-7~~	~~bis(2-Ethylhexyl)Phthalate~~	~~7300~~	~~U~~
218-01-9	Chrysene	7300	U
117-81-7	bis(2-Ethylhexyl)Phthalate	31000	
117-84-0	Di-n-Octyl Phthalate	7300	U
205-99-2	Benzo(b)Fluoranthene	7300	U
207-08-9	Benzo(k)Fluoranthene	7300	U
50-32-8	Benzo(a)Pyrene	7300	U
193-39-5	Indeno 1,2,3-cd)Pyrene	7300	U
53-70-3	Dibenz(a,h)Anthracene	7300	U
191-24-2	Benzo(g,h,i)Perylene	7300	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) _____ Lab Sample ID: D971831

Sample wt/vol: 30.9 (g/mL) ML Lab File ID: APR13HK057

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. 12 dec. _____ Date Extracted: 04/05/89

Extraction: (SepF/Cont/Sonc) _____ Date Analyzed: 04/13/89

GPC Cleanup: (Y/N) Y pH: 6.0 Dilution Factor: 0.0309

Number TICs found: 20

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.73	44000	BAJ
2.	UNKNOWN AROMATIC HYDROCARBON	8.34	22000	J
3.	UNKNOWN AROMATIC HYDROCARBON	9.80	11000	J
4.	UNKNOWN AROMATIC HYDROCARBON	10.39	13000	J
5.	UNKNOWN AROMATIC HYDROCARBON	11.15	14000	J
6.	UNKNOWN	12.99	18000	J
7.	UNKNOWN METHYL NAPHTHALENE	14.97	22000	J
8.	UNKNOWN HYDROCARBON	16.35	18000	J
9.	UNKNOWN DIMETHYL NAPHTHALENE	16.45	18000	J
10.	UNKNOWN DIMETHYL NAPHTHALENE	16.67	7200	J
11.	UNKNOWN	17.14	30000	J
12.	UNKNOWN HYDROCARBON	17.27	15000	J
13.	UNKNOWN HYDROCARBON	17.60	13000	J
14.	UNKNOWN HYDROCARBON	18.69	13000	J
15.	UNKNOWN HYDROCARBON	19.70	14000	J
16.	UNKNOWN HYDROCARBON	19.77	12000	J
17.	UNKNOWN HYDROCARBON	20.75	14000	J
18.	UNKNOWN HYDROCARBON	21.59	31000	J
19.	UNKNOWN HYDROCARBON	22.54	14000	J
20.	UNKNOWN HYDROCARBON	24.84	6900	J

X104

EPA SAMPLE NO.

D971831

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: _____ Contract: _____

Lab Code: _____, Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: D971831

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

Level: (low/med) LOW Date Received: 3/30/89

% Moisture: not dec. 12% dec. _____ Date Extracted: 4/4/89

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 4/24/89

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: .1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
319-84-6	alpha-BHC	91	U
319-85-7	beta-BHC	665	
319-86-8	delta-BHC	91	U
58-89-9	gamma-BHC (Lindane)	91	U
76-44-8	Heptachlor	203	
309-00-2	Aldrin	91	U
1024-57-3	Heptachlor epoxide	203	
959-98-8	Endosulfan I	180	U
60-57-1	Dieldrin	180	U
72-55-9	4,4'-DDE	180	U
72-20-8	Endrin	180	U
33213-65-9	Endosulfan II	304	
72-54-8	4,4'-DDD	180	U
1031-07-8	Endosulfan sulfate	180	U
50-29-3	4,4'-DDT	180	U
72-43-5	Methoxychlor	910	U
53494-70-5	Endrin ketone	180	U
5103-71-9	alpha-Chlordane	~~910~~ RT 257	J
5103-74-2	gamma-Chlordane	~~910~~ RT 407	J
8001-35-2	Toxaphene	1800	U
12674-11-2	Aroclor-1016	910	U
11104-28-2	Aroclor-1221	910	U
11141-16-5	Aroclor-1232	910	U
53469-21-9	Aroclor-1242	910	U
12672-29-6	Aroclor-1248	910	U
11097-69-1	Aroclor-1254	1800	U
11096-82-5	Aroclor-1260	1800	U

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

X104

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: NEW LENNOX

PUBLIC WELL #4 WILL CO. # 1970000000

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 2

Matrix (soil/water): _____ Lab Sample ID: B904118

Level (low/med): _____ Date Received: 3/29/89

% Solids: 86.4

Concentration Units (ug/L or mg/kg dry weight): _____

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	~~5862~~ 6890			P	
7440-36-0	Antimony	1.23	B	S	F	
7440-38-2	Arsenic	6.50		N	F	J
7440-39-3	Barium	118			P	
7440-41-7	Beryllium	~~0.59~~ 0.5	B		P	
7440-43-9	Cadmium	~~2.4~~ 3.4			P	
7440-70-2	Calcium	60500		*	P	J
7440-47-3	Chromium	~~22.8~~ 28			P	J
7440-48-4	Cobalt	~~4~~ 4.8	~~B~~ U		P	J
7440-50-8	Copper	108			P	J
7439-89-6	Iron	17000			P	
7439-92-1	Lead	~~308~~ 310			P	J
7439-95-4	Magnesium	32300		*	P	J
7439-96-5	Manganese	~~278~~ 370			P	
7439-97-6	Mercury	0.01	U		AV	
7440-02-0	Nickel	~~17.6~~ 19		*	P	J
7440-09-7	Potassium	~~917~~ 890			P	J
7782-49-2	Selenium	0.18	U	*	F	
7440-22-4	Silver	0.35	U		P	
7440-23-5	Sodium	~~307~~ 300	B		P	
7440-28-0	Thallium	0.32	B		P	
7440-62-2	Vanadium	14			P	
7440-66-6	Zinc	~~605~~ 610			P	
	Cyanide	0.52	U		AS	

Color Before: Black Clarity Before: Opaque Texture: Course

Color After: Green Clarity After: Cloudy Artifacts: _____

Comments:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) ___ Lab Sample ID: D971340

Sample wt/vol: 0.10 (g/mL) G Lab File ID: A0406LC14

Level: (low/med) MED Date Received: 03/30/89

% Moisture: not dec. ____ Date Analyzed: 04/06/89

Column: (pack/cap) WIDE Dilution Factor: 0.963

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	39000	U
74-83-9	Bromomethane	39000	U
75-01-4	Vinyl Chloride	39000	U
75-00-3	Chloroethane	39000	U
75-09-2	Methylene Chloride	19000	U
67-64-1	Acetone	39000	U
75-15-0	Carbon Disulfide	19000	U
75-35-4	1,1-Dichloroethene	19000	U
75-35-3	1,1-Dichloroethane	19000	U
540-59-0	1,2-Dichloroethene (total)	19000	U
67-66-3	Chloroform	19000	U
107-06-2	1,2-Dichloroethane	19000	U
78-93-3	2-Butanone	39000	~~U~~ R
71-55-6	1,1,1-Trichloroethane	19000	U
56-23-5	Carbon Tetrachloride	19000	U
108-05-4	Vinyl Acetate	39000	U
75-27-4	Bromodichloromethane	19000	U
78-87-5	1,2-Dichloropropane	19000	U
10061-01-5	cis-1,3-Dichloropropene	19000	U
79-01-6	Trichloroethene	19000	U
124-48-1	Dibromochloromethane	19000	U
79-00-5	1,1,2-Trichloroethane	19000	U
71-43-2	Benzene	270000	
10061-02-6	Trans-1,3-Dichloropropene	19000	U
75-25-2	Bromoform	19000	U
108-10-1	4-Methyl-2-Pentanone	39000	U
591-78-6	2-Hexanone	39000	U
127-18-4	Tetrachloroethene	19000	U
79-34-5	1,1,2,2-Tetrachloroethane	39000	U
108-88-3	Toluene	510000	
108-90-7	Chlorobenzene	19000	U
100-41-4	Ethylbenzene	2600000	E
100-42-5	Styrene	19000	U
----------	Total Xylenes	8500000	E

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) _____ Lab Sample ID: D971340

Sample wt/vol: 0.10 (g/mL) G Lab File ID: A0406LC14

Level: (low/med) MED Date Received: 03/30/89

% Moisture: not dec. _____ Date Analyzed: 04/06/89

Column (pack/cap) WIDE Dilution Factor: 0.963

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.

X105DL

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) _____ Lab Sample ID: D9718400

Sample wt/vol: 0.10 (g/mL) G Lab File ID: A0407LC09

Level: (low/med) MED Date Received: 03/30/89

% Moisture: not dec. _____ Date Analyzed: 04/07/89

Column: (pack/cap) WIDE Dilution Factor: 19.2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	770000	U
74-83-9	Bromomethane	770000	U
75-01-4	Vinyl Chloride	770000	U
75-00-3	Chloroethane	770000	U
75-09-2	Methylene Chloride	380000	U
67-64-1	Acetone	770000	U
75-15-0	Carbon Disulfide	380000	U
75-35-4	1,1-Dichloroethene	380000	U
75-35-3	1,1-Dichloroethane	380000	U
540-59-0	1,2-Dichloroethene (total)	380000	U
67-66-3	Chloroform	380000	U
107-06-2	1,2-Dichloroethane	380000	U
78-93-3	2-Butanone	770000	~~U~~ R
71-55-6	1,1,1-Trichloroethane	380000	U
56-23-5	Carbon Tetrachloride	380000	U
108-05-4	Vinyl Acetate	770000	U
75-27-4	Bromodichloromethane	380000	U
78-87-5	1,2-Dichloropropane	380000	U
10061-01-5	cis-1,3-Dichloropropene	380000	U
79-01-6	Trichloroethene	380000	U
124-48-1	Dibromochloromethane	380000	U
79-00-5	1,1,2-Trichloroethane	380000	U
71-43-2	Benzene	290000	DJ
10061-02-6	Trans-1,3-Dichloropropene	380000	U
75-25-2	Bromoform	380000	U
108-10-1	4-Methyl-2-Pentanone	770000	U
591-78-6	2-Hexanone	770000	U
127-18-4	Tetrachloroethene	380000	U
79-34-5	1,1,2,2-Tetrachloroethane	770000	U
108-88-3	Toluene	640000	D
108-90-7	Chlorobenzene	380000	U
100-41-4	Ethylbenzene	2800000	D
100-42-5	Styrene	380000	U
	Total Xylenes	14000000	D

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X105DL

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) _____ Lab Sample ID: D9718400

Sample wt/vol: 0.10 (g/mL) G Lab File ID: A0407LC09T

Level: (low/med) MED Date Received: 03/30/89

% Moisture: not dec. _____ Date Analyzed: 04/07/89

Column (pack/cap) WIDE Dilution Factor: 1

Number TICs found: 10

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. --	UNKNOWN HYDROCARBON	5.73	12000	DJ
2. --	UNKNOWN HYDROCARBON	7.98	8000	DJ
3. --	UNKNOWN HYDROCARBON	3.92	9100	DJ
4. --	UNKNOWN HYDROCARBON	15.30	8500	DJ
5. --	UNKNOWN HYDROCARBON	17.59	7100	DJ
6. --	UNKNOWN C3-BENZENE	21.50	13000	DJ
7. --	UNKNOWN C3-BENZENE	21.82	12000	DJ
8. --	UNKNOWN HYDROCARBON	22.40	8800	DJ
9. --	UNKNOWN C3-BENZENE	15.24	8600	DJ
10. --	UNKNOWN C4-BENZENE	26.34	7300	DJ

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) SOIL Lab Sample ID: D971840

Sample wt/vol: 0.11 (g/mL) G Lab File ID: APR26HK04

Level: (low/med) MED Date Received: 03/30/89

% Moisture: not dec. _____ dec. _____ Date Extracted: 04/10/89

Extraction: (SepF/Cont/Sonc) _____ Date Analyzed: 04/26/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 4.62

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	830000	U
111-44-4	bis(2-Chloroethyl)Ether	830000	U
95-57-8	2-Chlorophenol	830000	U
541-73-1	1,3-Dichlorobenzene	830000	U
106-46-7	1,4-Dichlorobenzene	830000	U
100-51-6	Benzyl Alcohol	830000	U
95-50-1	1,2-Dichlorobenzene	830000	U
95-48-7	2-Methylphenol	830000	U
39638-32-9	bis(2-Chloroisopropyl)Ether	830000	U
106-44-5	4-Methylphenol	830000	U
621-64-7	N-Nitroso-Di-n-Propylamine	830000	U
67-72-1	Hexachloroethane	830000	U
98-95-3	Nitrobenzene	830000	U
78-59-1	Isophorone	830000	U
88-75-5	2-Nitrophenol	830000	U
105-67-9	2,4-Dimethylphenol	830000	U
65-85-0	Benzoic Acid	4000000	U
111-91-1	bis(2-Chloroethoxy)Methane	830000	U
120-83-2	2,4-Dichlorophenol	830000	U
120-82-1	1,2,4-Trichlorobenzene	830000	U
91-20-3	Naphthalene	1600000	
106-47-8	4-Chloroaniline	830000	U
87-68-3	Hexachlorobutadiene	830000	U
59-50-7	4-Chloro-3-Methylphenol	830000	U
[illegible]	2-Methylnaphthalene	4000000	
77-47-4	Hexachlorocyclopentadiene	830000	U
88-06-2	2,4,6-Trichlorophenol	830000	U
95-95-4	2,4,5-Trichlorophenol	4000000	U
91-58-7	2-Chloronaphthalene	830000	U
88-74-4	2-Nitroaniline	4000000	U
131-11-3	Dimethyl Phthalate	830000	U
208-96-8	Acenaphthylene	830000	U
606-20-2	2,6-Dinitrotoluene	830000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) SOIL Lab Sample ID: D971840

Sample wt/vol: 0.11 (g/mL) G Lab File ID: APR26HK04

Level: (low/med) MED Date Received: 03/30/89

% Moisture: not dec. _____ dec. _____ Date Extracted: 04/10/89

Extraction: (SepF/Cont/Sonc) _____ Date Analyzed: 04/26/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 4.62

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	4000000	U
83-32-9	Acenaphthene	830000	U
51-28-5	2,4-Dinitrophenol	4000000	U
100-02-7	4-Nitrophenol	4000000	U
132-64-9	Dibenzofuran	210000	J
121-14-2	2,4-Dinitrotoluene	830000	U
84-66-2	Diethylphthalate	830000	U
7005-72-3	4-Chlorophenyl-phenylether	830000	U
86-73-7	Fluorene	260000	J
100-10-6	4-Nitroaniline	4000000	U
534-52-1	4,6-Dinitro-2-Methylphenol	4000000	U
86-30-6	N-Nitrosodiphenylamine (1)	830000	U
101-55-3	4-Bromophenyl-phenylether	830000	U
118-74-1	Hexachlorobenzene	830000	U
87-86-5	Pentachlorophenol	4000000	U
85-01-8	Phenanthrene	550000	J
120-12-7	Anthracene	80000	J
84-74-2	Di-n-Butylphthalate	830000	U
206-44-0	Fluoranthene	830000	U
129-00-0	Pyrene	830000	U
85-68-7	Butylbenzylphthalate	830000	U
91-94-1	3,3'-Dichlorobenzidine	1700000	U
56-55-3	Benzo(a)Anthracene	830000	U
~~117-81-7~~	~~bis(2-Ethylhexyl)Phthalate~~	~~830000~~	~~U~~
218-01-9	Chrysene	830000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	830000	U
117-84-0	Di-n-Octyl Phthalate	830000	U
205-99-2	Benzo(b)Fluoranthene	830000	U
207-08-9	Benzo(k)Fluoranthene	830000	U
50-32-8	Benzo(a)Pyrene	830000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	830000	U
53-70-3	Dibenz(a,h)Anthracene	830000	U
191-24-2	Benzo(g,h,i)Perylene	830000	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X105

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: GPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) _____ Lab Sample ID: D971840

Sample wt/vol: 0.11 (g/mL) ML Lab File ID: APR26HK04T

Level: (low/med) MED Date Received: 03/30/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 04/10/89

Extraction: (SepF/Cont/Sonc) ____ Date Analyzed: 04/26/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.000110

Number TICs found: 20

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN HYDROCARBON	4.10	4800000	J
2.	UNKNOWN HYDROCARBON	4.83	9000000	J
3.	UNKNOWN HYDROCARBON	5.83	3800000	J
4.	UNKNOWN HYDROCARBON	7.57	1800000	J
5.	UNKNOWN AROMATIC HYDROCARBON	9.04	1400000	J
6.	UNKNOWN HYDROCARBON	9.15	1000000	J
7.	UNKNOWN AROMATIC HYDROCARBON	9.22	1500000	J
8.	UNKNOWN HYDROCARBON	10.60	1200000	J
9.	UNKNOWN AROMATIC HYDROCARBON	11.34	740000	J
10.	UNKNOWN HYDROCARBON	14.44	3100000	J
11.	UNKNOWN METHYL NAPHTHALENE	15.25	1200000	J
12.	UNKNOWN HYDROCARBON	16.39	2900000	J
13.	UNKNOWN HYDROCARBON	17.52	1000000	J
14.	UNKNOWN HYDROCARBON	18.07	2300000	J
15.	UNKNOWN DIMETHYL NAPHTHALENE	18.15	1000000	J
16.	UNKNOWN HYDROCARBON	18.92	2900000	J
17.	UNKNOWN HYDROCARBON	19.37	2000000	J
18.	UNKNOWN	19.97	1600000	J
19.	UNKNOWN	20.50	570000	J
20.	UNKNOWN HYDROCARBON	21.47	2700000	J

X105

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D971840

Name: SPRINGFIELD IEPA Contract: _____

Lab Code: _____, Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) org. liquid Lab Sample ID: D971840

Sample wt/vol: .2040 (g/mL) g Lab File ID: –

Level: (low/med) – Date Received: 3/30/89

% Moisture: not dec. – dec. – Date Extracted: –

Extraction: (SepF/Cont/Sonc) – Date Analyzed: 4/24/89

GPC Cleanup: (Y/N) N pH: – Dilution Factor: .2040g → 10ml

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

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	8	U
319-85-7	beta-BHC	8	U
319-86-8	delta-BHC	8	U
58-89-9	gamma-BHC (Lindane)	8	U
76-44-8	Heptachlor	8	U
309-00-2	Aldrin	8	U
1024-57-3	Heptachlor epoxide	8	U
959-98-8	Endosulfan I	8	U
60-57-1	Dieldrin	16	U
72-55-9	4,4'-DDE	16	U
72-20-8	Endrin	16	U
33213-65-9	Endosulfan II	16	U
72-54-8	4,4'-DDD	16	U
1031-07-8	Endosulfan sulfate	16	U
50-29-3	4,4'-DDT	16	U
72-43-5	Methoxychlor	80	U
53494-70-5	Endrin ketone	16	U
5103-71-9	alpha-Chlordane	80	U
5103-74-2	gamma-Chlordane	80	U
8001-35-2	Toxaphene	160	U
12674-11-2	Aroclor-1016	80	U
11104-28-2	Aroclor-1221	80	U
11141-16-5	Aroclor-1232	80	U
53469-21-9	Aroclor-1242	80	U
12672-29-6	Aroclor-1248	80	U
11097-69-1	Aroclor-1254	160	U
11096-82-5	Aroclor-1260	160	U

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE : X 105

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: NEW LENNOX PUBLIC WELL #4 WILL CO. # 1970000000

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 2

Matrix (soil/water): OIL Lab Sample ID: B90411

Level (low/med): _____ Date Received: 5/29/89

% Solids: 100% Oil Layer

Concentration Units (ug/L or mg/kg ~~dry weight~~): _____

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	12	U		P	
7440-36-0	Antimony	0.32	U		F	
7440-38-2	Arsenic	1.8	B	N	F	J
7440-39-3	Barium	0.38	B		P	
7440-41-7	Beryllium	0.09	U		P	
7440-43-9	Cadmium	0.18	U		P	
7440-70-2	Calcium	21	U	*	P	J
7440-47-3	Chromium	0.46	U		P	
7440-48-4	Cobalt	0.26	U		P	
7440-50-8	Copper	0.26	U		P	J
7439-89-6	Iron	22.8	B		P	J
7439-92-1	Lead	543			P	J
7439-95-4	Magnesium	14	U	*	P	J
7439-96-5	Manganese	0.9	B		P	J
7439-97-6	Mercury	0.01	U		AV	
7440-02-0	Nickel	0.66	U	*	P	
7440-09-7	Potassium	40	U		P	J
7782-49-2	Selenium	0.3	B	*	F	
7440-22-4	Silver	0.35	U		P	
7440-23-5	Sodium	9	U		P	
7440-28-0	Thallium	0.14	U		F	
7440-62-2	Vanadium	0.28	U		P	
7440-66-6	Zinc	1.7	U		P	
	Cyanide					

Color Before: Black Clarity Before: Opaque Texture: _____

Color After: Yellow Clarity After: Cloudy Artifacts: 2 Layer Emulsion

Comments: SAMPLE APPROXIMATELY 50% WATER 50% OIL

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) SOIL Lab Sample ID: D971837

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0406LC05

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. 25 Date Analyzed: 04/06/89

Column: (pack/cap) WIDE Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13	UJ
74-83-9	Bromomethane	13	UJ
75-01-4	Vinyl Chloride	13	UJ
75-00-3	Chloroethane	13	UJ
75-09-2	Methylene Chloride	100	J
67-64-1	Acetone	13	UJ
75-15-0	Carbon Disulfide	7	UJ
75-35-4	1,1-Dichloroethene	7	UJ
75-35-3	1,1-Dichloroethane	7	UJ
540-59-0	1,2-Dichloroethene (total)	7	UJ
67-66-3	Chloroform	7	UJ
107-06-2	1,2-Dichloroethane	7	UJ
78-93-3	2-Butanone	3	J
71-55-6	1,1,1-Trichloroethane	7	UJ
56-23-5	Carbon Tetrachloride	7	UJ
108-05-4	Vinyl Acetate	13	UJ
75-27-4	Bromodichloromethane	7	UJ
78-87-5	1,2-Dichloropropane	7	UJ
10061-01-5	cis-1,3-Dichloropropene	7	UJ
79-01-6	Trichloroethene	7	UJ
124-48-1	Dibromochloromethane	7	UJ
79-00-5	1,1,2-Trichloroethane	7	UJ
71-43-2	Benzene	7	UJ
10061-02-6	Trans-1,3-Dichloropropene	7	UJ
75-25-2	Bromoform	7	UJ
108-10-1	4-Methyl-2-Pentanone	13	UJ
591-78-6	2-Hexanone	13	UJ
127-18-4	Tetrachloroethene	7	UJ
79-34-5	1,1,2,2-Tetrachloroethane	13	UJ
108-88-3	Toluene	7	UJ
108-90-7	Chlorobenzene	7	UJ
100-41-4	Ethylbenzene	7	UJ
100-42-5	Styrene	7	UJ
----------	Total Xylenes	7	UJ

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) SOIL Lab Sample ID: D971837

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0406LC05

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. 25 Date Analyzed: 04/06/89

Column (pack/cap) WIDE Dilution Factor: 1.00

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.

X106

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) SOIL Lab Sample ID: D971837

Sample wt/vol: 30.0 (g/mL) G Lab File ID: APR24HK03

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. 25 dec. ____ Date Extracted: 04/05/89

Extraction: (SepF/Cont/Sonc) ____ Date Analyzed: 04/24/89

GPC Cleanup: (Y/N) Y pH: 6.0 Dilution Factor: 10.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	4400	U
111-44-4	bis(2-Chloroethyl)Ether	4400	U
95-57-8	2-Chlorophenol	4400	U
541-73-1	1,3-Dichlorobenzene	4400	U
106-46-7	1,4-Dichlorobenzene	4400	U
100-51-6	Benzyl Alcohol	4400	U
95-50-1	1,2-Dichlorobenzene	4400	U
95-48-7	2-Methylphenol	4400	U
39638-32-9	bis(2-Chloroisopropyl)Ether	4400	U
106-44-5	4-Methylphenol	4400	U
621-64-7	N-Nitroso-Di-n-Propylamine	4400	U
67-72-1	Hexachloroethane	4400	U
98-95-3	Nitrobenzene	4400	U
78-59-1	Isophorone	4400	U
88-75-5	2-Nitrophenol	4400	U
105-67-9	2,4-Dimethylphenol	4400	U
65-85-0	Benzoic Acid	21000	U
111-91-1	bis(2-Chloroethoxy)Methane	4400	U
120-83-2	2,4-Dichlorophenol	4400	U
120-82-1	1,2,4-Trichlorobenzene	4400	U
91-20-3	Naphthalene	91	J
106-47-8	4-Chloroaniline	4400	U
87-68-3	Hexachlorobutadiene	4400	U
59-50-7	4-Chloro-3-Methylphenol	4400	U
91-57-6	2-Methylnaphthalene	240	J
77-47-4	Hexachlorocyclopentadiene	4400	U
88-06-2	2,4,6-Trichlorophenol	4400	U
95-95-4	2,4,5-Trichlorophenol	21000	U
91-58-7	2-Chloronaphthalene	4400	U
88-74-4	2-Nitroaniline	21000	U
131-11-3	Dimethyl Phthalate	4400	U
208-96-8	Acenaphthylene	4400	U
606-20-2	2,6-Dinitrotoluene	4400	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil water) SOIL Lab Sample ID: D971837

Sample wt/vol: 30.0 (g/mL) G Lab File ID: APR24HK03

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. 25 dec. ____ Date Extracted: 04/05/89

Extraction: (SepF/Cont/Sonc) ____ Date Analyzed: 04/24/89

GPC Cleanup: (Y/N) Y pH: 6.0 Dilution Factor: 10.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	21000	U
83-32-9	Acenaphthene	4400	U
51-28-5	2,4-Dinitrophenol	21000	U
100-02-7	4-Nitrophenol	21000	U
132-64-9	Dibenzofuran	4400	U
121-14-2	2,4-Dinitrotoluene	4400	U
84-66-2	Diethylphthalate	4400	U
7005-72-3	4-Chlorophenyl-phenylether	4400	U
86-73-7	Fluorene	4400	U
100-10-6	4-Nitroaniline	21000	U
534-52-1	4,6-Dinitro-2-Methylphenol	21000	U
86-30-6	N-Nitrosodiphenylamine (1)	4400	U
101-55-3	4-Bromophenyl-phenylether	4400	U
118-74-1	Hexachlorobenzene	4400	U
87-86-5	Pentachlorophenol	21000	U
85-01-8	Phenanthrene	4400	U
120-12-7	Anthracene	4400	U
84-74-2	Di-n-Butylphthalate	4400 ~~150~~	~~B~~ U
206-44-0	Fluoranthene	2700	~~B~~ J
129-00-0	Pyrene	2400	~~B~~ J
85-68-7	Butylbenzylphthalate	4400	U
91-94-1	3,3'-Dichlorobenzidine	8800	U
56-55-3	Benzo(a)Anthracene	2100	J
~~117-81-7~~	~~bis(2-Ethylhexyl)Phthalate~~	~~4400~~	~~U~~
218-01-9	Chrysene	1800	~~B~~ J
117-81-7	bis(2-Ethylhexyl)Phthalate	4400 ~~120~~	~~B~~ U
117-84-0	Di-n-Octyl Phthalate	4400	U
205-99-2	Benzo(b)Fluoranthene	2400	J
207-08-9	Benzo(k)Fluoranthene	4400	U
50-32-8	Benzo(a)Pyrene	4400	U
193-39-5	Indeno(1,2,3-cd)Pyrene	4400	U
53-70-3	Dibenz(a,h)Anthracene	4400	U
191-24-2	Benzo(g,h,i)Perylene	4400	U

1. - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97133

Matrix: (soil/water) _____ Lab Sample ID: D971837

Sample wt/vol: 30.0 (g/mL) ML Lab File ID: APR24HK03T

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. 25 dec. _____ Date Extracted: 04/05/89

Extraction: (SepF/Cont/Sonc) _____ Date Analyzed: 04/24/89

GPC Cleanup: (Y/N) Y pH: 6.0 Dilution Factor: 0.0300

Number TICs found: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.45	29000	BAJ
2.	UNKNOWN HYDROCARBON	15.97	2800	J
3.	UNKNOWN HYDROCARBON	17.25	2200	J
4.	UNKNOWN HYDROCARBON	19.35	6400	J
5.	UNKNOWN ALIPHATIC ACID ESTER	25.27	2400	BJ

X106

EPA SAMPLE NO.

D971837

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: SPRINGFIELD IEPA Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: D971837

Sample wt/vol: 30.26 (g/mL) g Lab File ID: _____

Level: (low/med) LOW Date Received: 3/30/89

% Moisture: not dec. 25% dec. _____ Date Extracted: 4/4/89

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 4/24/89

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1

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

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	11	U
319-85-7	beta-BHC	11	U
319-86-8	delta-BHC	11	U
58-89-9	gamma-BHC (Lindane)	11	U
76-44-8	Heptachlor	11	U
309-00-2	Aldrin	11	U
1024-57-3	Heptachlor epoxide	16	
959-98-8	Endosulfan I	11	U
60-57-1	Dieldrin	21	U
72-55-9	4,4'-DDE	21	U
72-20-8	Endrin	21	U
33213-65-9	Endosulfan II	21	U
72-54-8	4,4'-DDD	21	U
1031-07-8	Endosulfan sulfate	21	U
50-29-3	4,4'-DDT	21	U
72-43-5	Methoxychlor	110	U
53494-70-5	Endrin ketone	21	U
5103-71-9	alpha-Chlordane	110	U
5103-74-2	gamma-Chlordane	110	U
8001-35-2	Toxaphene	210	U
12674-11-2	Aroclor-1016	110	U
11104-28-2	Aroclor-1221	110	U
11141-16-5	Aroclor-1232	110	U
53469-21-9	Aroclor-1242	110	U
12672-29-6	Aroclor-1248	110	U
11097-69-1	Aroclor-1254	210	U
11096-82-5	Aroclor-1260	210	U

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE No.: X 106

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: NEW LENNOX PUBLIC WELL #4 WILL CO. # 1970000000

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 2

Matrix (soil/water): _____ Lab Sample ID: B904[illegible]

Level (low/med): _____ Date Received: 3/29/8[illegible]

% Solids: 75.6

Concentration Units (ug/L or mg/kg dry weight): _____

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	~~6190~~ 6180			P	
7440-36-0	Antimony	3.2		S	F	
7440-38-2	Arsenic	35.3		S,N	F	h
7440-39-3	Barium	~~232~~ 233			P	
7440-41-7	Beryllium	2.2			P	
7440-43-9	Cadmium	~~6.3~~ 7.6			P	
7440-70-2	Calcium	~~35460~~ 35450		*	P	h
7440-47-3	Chromium	~~19.9~~ 22			P	h
7440-48-4	Cobalt	~~4.8~~ 5.1	~~B~~ U		P	h
7440-50-8	Copper	76			P	h
7439-89-6	Iron	35240			P	
7439-92-1	Lead	370			P	h
7439-95-4	Magnesium	15060		*	P	h
7439-96-5	Manganese	~~556~~ 540			P	
7439-97-6	Mercury	0.12			AV	
7440-02-0	Nickel	~~14.9~~ 17.0		*	P	h
7440-09-7	Potassium	~~1039~~ 1012	U		P	h
7782-49-2	Selenium	0.78		S,*	F	
7440-22-4	Silver	~~0.41~~ .05	U		P	
7440-23-5	Sodium	354 U	~~B~~		P	
7440-28-0	Thallium	0.60	B		F	
7440-62-2	Vanadium	~~22.7~~ 23			P	
7440-66-6	Zinc	893 896			P	
	Cyanide	0.65	U		AS	

Color Before: Black Clarity Before: Opaque Texture: Medium

Color After: Green Clarity After: Cloudy Artifacts: _____

Comments:

FORM I - IN

7/87

Rev. IFB Amendment One

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

VBLKW

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) WATER Lab Sample ID: D971841

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0405LC11

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. ____ Date Analyzed: 04/05/89

Column: (pack/cap) WIDE Dilution Factor: 1.00

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	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1.3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
	Total Xylenes	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE N

VBLKW

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) WATER Lab Sample ID: D971841

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0405LC11

Level: (low/med) LOW Date Received: 03/30/89

% Moisture: not dec. ____ Date Analyzed: 04/05/89

Column (pack/cap) WIDE Dilution Factor: 1.00

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 N

VBLKSL

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) SOIL Lab Sample ID: 040689LS

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0406LC01

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

% Moisture: not dec. _____ Date Analyzed: 04/06/89

Column: (pack/cap) WIDE Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
----------	Total Xylenes	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE N

VBLKSL

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) SOIL Lab Sample ID: 040689LS

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0406LC01

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

% Moisture: not dec. ____ Date Analyzed: 04/06/89

Column (pack/cap) WIDE Dilution Factor: 1.00

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 N

VBLKSM

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) _____ Lab Sample ID: 040689MS

Sample wt/vol: 0.10 (g/mL) G Lab File ID: A0406LC02

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

% Moisture: not dec. _____ Date Analyzed: 04/06/89

Column: (pack/cap) WIDE Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	40000	U
74-83-9	Bromomethane	40000	U
75-01-4	Vinyl Chloride	40000	U
75-00-3	Chloroethane	40000	U
75-09-2	Methylene Chloride	20000	U
67-64-1	Acetone	40000	U
75-15-0	Carbon Disulfide	20000	U
75-35-4	1,1-Dichloroethene	20000	U
75-35-3	1,1-Dichloroethane	20000	U
540-59-0	1,2-Dichloroethene (total)	20000	U
67-66-3	Chloroform	20000	U
107-06-2	1,2-Dichloroethane	20000	U
78-93-3	2-Butanone	40000	U
71-55-6	1,1,1-Trichloroethane	20000	U
56-23-5	Carbon Tetrachloride	20000	U
108-05-4	Vinyl Acetate	40000	U
75-27-4	Bromodichloromethane	20000	U
78-87-5	1,2-Dichloropropane	20000	U
10061-01-5	cis-1,3-Dichloropropene	20000	U
79-01-6	Trichloroethene	20000	U
124-48-1	Dibromochloromethane	20000	U
79-00-5	1,1,2-Trichloroethane	20000	U
71-43-2	Benzene	20000	U
10061-02-6	Trans-1,3-Dichloropropene	20000	U
75-25-2	Bromoform	20000	U
108-10-1	4-Methyl-2-Pentanone	40000	U
591-78-6	2-Hexanone	40000	U
127-18-4	Tetrachloroethene	20000	U
79-34-5	1,1,2,2-Tetrachloroethane	40000	U
108-88-3	Toluene	20000	U
108-90-7	Chlorobenzene	20000	U
100-41-4	Ethylbenzene	20000	U
100-42-5	Styrene	20000	U
	Total Xylenes	20000	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE N

VBLKSM

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) _____ Lab Sample ID: 040689MS

Sample wt/vol: 0.10 (g/mL) G Lab File ID: A0406LC02

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

% Moisture: not dec. _____ Date Analyzed: 04/06/89

Column (pack/cap) WIDE Dilution Factor: 1.00

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 N

VBLKSL

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) SOIL Lab Sample ID: 040789SL

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0407LC02

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

% Moisture: not dec. ____ Date Analyzed: 04/07/89

Column: (pack/cap) _____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
----------	Total Xylenes	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE N

VBLKSL

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) SOIL Lab Sample ID: 040789SL

Sample wt/vol: 5.0 (g/mL) G Lab File ID: A0407LC02

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

% Moisture: not dec. ____ Date Analyzed: 04/07/89

Column (pack/cap) _____ Dilution Factor: 1.00

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 N

VBLKSM

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) SOIL Lab Sample ID: 040789SM

Sample wt/vol: 4.0 (g/mL) G Lab File ID: A0407LC01

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

% Moisture: not dec. _____ Date Analyzed: 04/07/89

Column: (pack/cap) WIDE Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	1000	U
74-83-9	Bromomethane	1000	U
75-01-4	Vinyl Chloride	1000	U
75-00-3	Chloroethane	1000	U
75-09-2	Methylene Chloride	500	U
67-64-1	Acetone	1000	U
75-15-0	Carbon Disulfide	500	U
75-35-4	1,1-Dichloroethene	500	U
75-35-3	1,1-Dichloroethane	500	U
540-59-0	1,2-Dichloroethene (total)	500	U
67-66-3	Chloroform	500	U
107-06-2	1,2-Dichloroethane	500	U
78-93-3	2-Butanone	1000	U
71-55-6	1,1,1-Trichloroethane	500	U
56-23-5	Carbon Tetrachloride	500	U
108-05-4	Vinyl Acetate	1000	U
75-27-4	Bromodichloromethane	500	U
78-87-5	1,2-Dichloropropane	500	U
10061-01-5	cis-1,3-Dichloropropene	500	U
79-01-6	Trichloroethene	500	U
124-48-1	Dibromochloromethane	500	U
79-00-5	1,1,2-Trichloroethane	500	U
71-43-2	Benzene	500	U
10061-02-6	Trans-1,3-Dichloropropene	500	U
75-25-2	Bromoform	500	U
108-10-1	4-Methyl-2-Pentanone	1000	U
591-78-6	2-Hexanone	1000	U
127-18-4	Tetrachloroethene	500	U
79-34-5	1,1,2,2-Tetrachloroethane	1000	U
108-88-3	Toluene	500	U
108-90-7	Chlorobenzene	500	U
100-41-4	Ethylbenzene	500	U
100-42-5	Styrene	500	U
	Total Xylenes	500	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE N

VBLKSM

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) SOIL Lab Sample ID: 040789SM

Sample wt/vol: 4.0 (g/mL) G Lab File ID: A0407LC01

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

% Moisture: not dec. ____ Date Analyzed: 04/07/89

Column (pack/cap) WIDE Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

2A
WATER VOLATILE SURROGATE RECOVERY

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

	EPA SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#	OTHER	TOT OUT
01	G101	102	101	94		0
02	G101DL	101	99	104		0
03	G102	110	102	96		0
04	G102MS	88	92	110		0
05	G102MSD	89	92	108		0
06	G103	107	104	95		0
07	PW_4	96	95	98		0
08	VBLKW	95	97	103		0

	QC LIMITS
S1 (TOL) = Toluene-d8	(88-110)
S2 (BFB) = Bromofluorobenzene	(86-115)
S3 (DCE) = 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

2B

SOIL VOLATILE SURROGATE RECOVERY

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#	OTHER	TOT OUT
01	VBLKSL	100	104	97		0
02	VBLKSL	87	93	106		0
03	X102	90	84	116		0
04	X103	117	85	120		0
05	X103MS	97	93	102		0
06	X103MSD	91	94	108		0
07	X106	110	72 *	117		1

		QC LIMITS
S1 (TOL)	= Toluene-d8	(81-117)
S2 (BFB)	= Bromofluorobenzene	(74-121)
S3 (DCE)	= 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

2B
SOIL VOLATILE SURROGATE RECOVERY

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Level:(low/med) MED

	EPA SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#	OTHER	TOT OUT
01	G104	84	106	95		0
02	G104DL	D	D	D		0
03	VBLKSM	109	105	93		0
04	VBLKSM	76 *	93	109		1
05	X101	90	93	79		0
06	X102MS	99	96	100		0
07	X102MSD	95	95	107		0
08	X104	91	94	95		0
09	X104DL	D	D	D		0
10	X105	97	107	D		0
11	X105DL	D	D	D		0

		QC LIMITS
S1 (TOL)	= Toluene-d8	(81-117)
S2 (BFB)	= Bromofluorobenzene	(74-121)
S3 (DCE)	= 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix Spike - EPA Sample No.: G102

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMI REC
1,1-Dichloroethene	50.0	0	70.1	140	61-1
Trichloroethene	50.0	0	47.3	95	71-1
Benzene	50.0	0	54.0	108	76-1
Toluene	50.0	0	46.9	94	76-1
Chlorobenzene	50.0	0	49.9	100	75-1

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC
1,1-Dichloroethene	50.0	63.3	127	10	14	61-1
Trichloroethene	50.0	46.3	93	2	14	71-1
Benzene	50.0	54.9	110	-2	11	76-1
Toluene	50.0	45.7	91	3	13	76-1
Chlorobenzene	50.0	48.3	97	3	13	75-1

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

* Values outside of QC limits

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

COMMENTS:

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix Spike - EPA Sample No.: X103 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMI REC
1,1-Dichloroethene	50.0	0	64.0	128	59-1
Trichloroethene	50.0	0	43.0	86	62-1
Benzene	50.0	0	49.1	98	66-1
Toluene	50.0	0	51.6	103	59-1
Chlorobenzene	50.0	0	51.6	103	60-1

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
1,1-Dichloroethene	50.0	57.3	115	11	22	59-1
Trichloroethene	50.0	41.8	84	2	24	62-1
Benzene	50.0	49.0	98	0	21	66-1
Toluene	50.0	50.3	101	2	21	59-1
Chlorobenzene	50.0	52.8	106	-3	21	60-1

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

* Values outside of QC limits

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

COMMENTS:

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix Spike - EPA Sample No.: X102 Level:(low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMI REC
1,1-Dichloroethene	100	0	129	129	59-1
Trichloroethene	100	0	88.7	89	62-1
Benzene	100	0	96.1	96	66-1
Toluene	100	0	98.1	98	59-1
Chlorobenzene	100	0	103	103	60-1

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	REC
1,1-Dichloroethene	100	116	116	11	22	59-1
Trichloroethene	100	80.0	80	11	24	62-1
Benzene	100	95.1	95	1	21	66-1
Toluene	100	98.0	98	0	21	59-1
Chlorobenzene	100	101	101	2	21	60-1

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

* Values outside of QC limits

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

COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Lab File ID: A0405LC11 Lab Sample ID: D971841

Date Analyzed: 04/05/89 Time Analyzed: 1608

Matrix: (soil/water) WATER Level:(low/med) LOW

Instrument ID: 5100

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	G101	D971835	A0405LC05	1203
02	G101DL	D971835	A0405LC12	1642
03	G102	D971830	A0405LC03	1052
04	G102MS	D971830MS	A0405LC14	1750
05	G102MSD	D971830MSD	A0405LC15	1824
06	G103	D971834	A0405LC04	1129
07	FW_4	D971838	A0405LC08	1341

COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Lab File ID: A0406LC02 Lab Sample ID: 040689MS

Date Analyzed: 04/06/89 Time Analyzed: 1004

Matrix: (soil/water) SOIL Level:(low/med) MED

Instrument ID: 5100

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	G104	D971839	A0406LC16	1946
02	X101	D971833	A0406LC08	1504
03	X105	D971340	A0406LC14	1838

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Lab File ID: A0406LC01 Lab Sample ID: 040689LS

Date Analyzed: 04/06/89 Time Analyzed: 0929

Matrix: (soil/water) SOIL Level:(low/med) LOW

Instrument ID: 5100

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	X103	D971836	A0406LC07	1430
02	X106	D971837	A0406LC05	1218

COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Lab File ID: A0407LC02 Lab Sample ID: 040789SL

Date Analyzed: 04/07/89 Time Analyzed: 1213

Matrix: (soil/water) SOIL Level:(low/med) LOW

Instrument ID: 5100

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	X102	71832	A0407LC03	1247

COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Lab File ID: A0407LC01 Lab Sample ID: 040789SM

Date Analyzed: 04/07/89 Time Analyzed: 1137

Matrix: (soil/water) SOIL Level:(low/med) MED

Instrument ID: 5100

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	G104DL	D971839	A0407LC11	1929
02	X104	D971831	A0407LC07	1516
03	X104DL	D971831	A0407LC13	2037
04	X105DL	D9718400	A0407LC09	1821

COMMENTS:

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Lab File ID: A0405LC02 BFB Injection Date: 04/05/89

Instrument ID: 5100 BFB Injection Time: 1008

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) WIDE

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.3
75	30.0 - 60.0% of mass 95	41.4
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	60.8
175	5.0 - 9.0% of mass 174	4.6 (7.5)1
176	Greater than 95.0%, but less than 101.0% of mass 174	58.1 (95.6)1
177	5.0 - 9.0% of mass 176	4.2 (7.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	G102	D971830	A0405LC03	04/05/89	1052
02	G103	D971834	A0405LC04	04/05/89	1129
03	G101	D971835	A0405LC05	04/05/89	1203
04	VSTD50	040589_STD	A0405LC07	04/05/89	1307
05	FW_4	D971838	A0405LC08	04/05/89	1341
06	VBLKW	D971841	A0405LC11	04/05/89	1608
07	G101DL	D971835	A0405LC12	04/05/89	1642
08	G102MS	D971830MS	A0405LC14	04/05/89	1750
09	G102MSD	D971830MSD	A0405LC15	04/05/89	1824

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Lab File ID: A0406LC02 BFB Injection Date: 04/06/89

Instrument ID: 5100 BFB Injection Time: 1004

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) WIDE

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.9
75	30.0 - 60.0% of mass 95	41.1
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	53.2
175	5.0 - 9.0% of mass 174	4.0 (7.6)1
176	Greater than 95.0%, but less than 101.0% of mass 174	50.6 (95.2)1
177	5.0 - 9.0% of mass 176	3.2 (6.3)2

1-Value is % mass 174 2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VBLKSL	040689LS	A0406LC01	04/06/89	0929
02	VBLKSM	040689MS	A0406LC02	04/06/89	1004
03	X106	D971837	A0406LC05	04/06/89	1218
04	X103	D971836	A0406LC07	04/06/89	1430
05	X103	D971836	A0406LC07T	04/06/89	1430
06	X101	D971833	A0406LC08	04/06/89	1504
07	X101	D971833	A0406LC08T	04/06/89	1504
08	VSTD50	040689_STD	A0406LC10	04/06/89	1616
09	X105	D971840	A0406LC14	04/06/89	1838
10	G104	D971839	A0406LC16	04/06/89	1946

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Lab File ID: A0407LC06 BFB Injection Date: 04/07/89

Instrument ID: 5100 BFB Injection Time: 1442

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) WIDE

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.0
75	30.0 - 60.0% of mass 95	37.5
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	51.0
175	5.0 - 9.0% of mass 174	4.2 (8.2)1
176	Greater than 95.0%, but less than 101.0% of mass 174	49.4 (96.9)1
177	5.0 - 9.0% of mass 176	3.5 (7.1)2

1-Value is % mass 174 2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VBLKSM	040789SM	A0407LC01	04/07/89	1137
02	VBLKSL	040789SL	A0407LC02	04/07/89	1213
03	X102	D971832	A0407LC03	04/07/89	1247
04	VSTD50	040789_STD	A0407LC05	04/07/89	1356
05	X104	D971831	A0407LC07	04/07/89	1516
06	X104	D971831	A0407LC07T	04/07/89	1516
07	X103MS	D971836MS	A0407LC14	04/07/89	1750
08	X105DL	D9718400	A0407LC09	04/07/89	1821
09	X105DL	D9718400	A0407LC09T	04/07/89	1821
10	X103MSD	D971836MDS	A0407LC15	04/07/89	1914
11	G104DL	D971839	A0407LC11	04/07/89	1929
12	G104DL	D971839	A0407LC11T	04/07/89	1929
13	X102MS	D971837MS	A0407LC16	04/07/89	2032
14	X104DL	D971831	A0407LC13	04/07/89	2037
15	X102MSD	D971837MSD	A0407LC17	04/07/89	2137

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Instrument ID: 5100 Calibration Date(s): 04/04/89 04/04/89

Matrix:(soil/water) _____ Level:(low/med) _____ Column:(pack/cap) WIDE

Min $\overline{RRF}$ for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.

LAB FILE ID: RRF20 = A0404LC11 RRF50 = A0404LC12
RRF100= A0404LC13 RRF150= A0404LC14 RRF200= A0404LC15

COMPOUND	RRF20	RRF50	RRF100	RRF150	RRF200	$\overline{RRF}$	% RSD
Chloromethane #	0.932	0.859	1.145	1.324	1.264	1.105	18.
Bromomethane	0.497	0.586	0.815	0.590	0.796	0.657	21.
Vinyl Chloride *	1.279	1.198	1.613	1.432	1.638	1.432	13.
Chloroethane	0.369	0.373	0.459	0.333	0.476	0.402	15.
Methylene Chloride	1.698	1.700	1.720	1.727	1.956	1.760	6.
Acetone	0.181	0.214	0.276	0.332	0.409	0.282	32.
Carbon Disulfide	2.492	2.570	2.678	3.307	3.591	2.928	16.
1,1-Dichloroethene *	1.100	1.064	1.045	0.995	1.106	1.062	4.
1,1-Dichloroethane #	4.139	3.458	4.512	4.789	4.028	4.185	12.
1,2-Dichloroethene (total)	1.538	1.611	1.708	1.841	2.258	1.791	15.
Chloroform *	4.001	4.384	5.715	5.379	5.498	4.995	15.
1,2-Dichloroethane	0.347	0.299	0.357	0.337	0.354	0.339	6.
2-Butanone	0.020	0.018	0.026	0.022	0.018	0.021	15.
1,1,1-Trichloroethane	1.595	2.202	3.312	2.278	2.933	2.464	27.
Carbon Tetrachloride	0.197	0.192	0.241	0.232	0.233	0.219	10.
Vinyl Acetate	0.146	0.197	0.195	0.190	0.127	0.171	18.
Bromodichloromethane	0.360	0.311	0.396	0.405	0.467	0.388	14.
1,2-Dichloropropane *	0.448	0.363	0.448	0.452	0.483	0.439	10.
cis-1,3-Dichloropropene	0.215	0.148	0.255	0.271	0.328	0.243	27.
Trichloroethene	0.379	0.317	0.383	0.382	0.404	0.373	8.
Dibromochloromethane	0.288	0.232	0.325	0.352	0.389	0.317	19.
1,1,2-Trichloroethane	0.356	0.264	0.369	0.380	0.420	0.358	16.
Benzene	1.082	0.902	1.084	0.997	0.910	0.995	8.
Trans-1,3-Dichloropropene	0.467	0.477	0.516	0.548	0.624	0.526	12.
Bromoform #	0.356	0.296	0.410	0.426	0.470	0.392	17.
4-Methyl-2-Pentanone		0.417	0.405	0.370	0.384	0.315	56.
2-Hexanone	0.207	0.158	0.267	0.270	0.239	0.228	20.
Tetrachloroethene	0.334	0.252	0.348	0.344	0.355	0.327	13.
1,1,2,2-Tetrachloroethane #	0.560	0.429	0.666	0.639	0.745	0.618	20.
Toluene *	1.535	1.212	1.595	1.532	1.568	1.488	10.
Chlorobenzene #	1.024	0.786	1.083	1.073	1.113	1.016	13.
Ethylbenzene *	0.534	0.436	0.557	0.576	0.591	0.539	11.
Styrene	0.952	0.788	1.104	1.205	1.149	1.040	16.
Total Xylenes	0.587	0.483	0.659	0.718	0.678	0.625	14.
Toluene-d8	0.724	0.564	0.751	0.718	0.728	0.697	10.
BFB	0.525	0.416	0.553	0.558	0.589	0.528	12.
1,2-Dichloroethane-d4	0.138	0.131	0.165	0.164	0.174	0.154	12.

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Instrument ID: 5100 Calibration date: 04/05/89 Time: 1307

Lab File ID: A0405LC07 Init. Calib. Date(s): 04/04/89 04/04/89

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) WIDE

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.

COMPOUND		RRF	RRF50	%D	
Chloromethane	#	1.105	0.966	12.6	#
Bromomethane		0.657	0.566	13.9	
Vinyl Chloride	*	1.432	1.275	11.0	*
Chloroethane		0.402	0.629	-56.5	
Methylene Chloride		1.760	1.399	20.5	
Acetone		0.282	0.267	5.3	
Carbon Disulfide		2.928	2.819	3.7	
1,1-Dichloroethene	*	1.062	1.091	-2.7	*
1,1-Dichloroethane	#	4.185	4.914	-17.4	#
1,2-Dichloroethene (total)		1.791	1.335	25.5	
Chloroform	*	4.995	4.551	8.9	*
1,2-Dichloroethane		0.339	0.339	0.0	
2-Butanone		0.021	0.015	28.6	
1,1,1-Trichloroethane		2.464	2.359	4.3	
Carbon Tetrachloride		0.219	0.228	-4.1	
Vinyl Acetate		0.171	0.155	9.4	
Bromodichloromethane		0.388	0.413	-6.4	
1,2-Dichloropropane	*	0.439	0.426	3.0	*
cis-1,3-Dichloropropene		0.243	0.214	11.9	
Trichloroethene		0.373	0.383	-2.7	
Dibromochloromethane		0.317	0.343	-8.2	
1,1,2-Trichloroethane		0.358	0.325	9.2	
Benzene		0.995	0.903	9.2	
Trans-1,3-Dichloropropene		0.526	0.418	20.5	
Bromoform	#	0.392	0.390	0.5	#
4-Methyl-2-Pentanone		0.394	0.380	3.6	
2-Hexanone		0.228	0.203	11.0	
Tetrachloroethene		0.327	0.330	-0.9	
1,1,2,2-Tetrachloroethane	#	0.618	0.630	-1.9	#
Toluene	*	1.488	1.762	-18.4	*
Chlorobenzene	#	1.016	0.988	2.8	#
Ethylbenzene	*	0.539	0.529	1.9	*
Styrene		1.040	0.970	6.7	
Total Xylenes		0.625	0.591	5.4	
Toluene-d8		0.697	0.906	-30.0	
BFB		0.528	0.558	-5.7	
1,2-Dichloroethane-d4		0.154	0.160	-3.9	

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Instrument ID: 5100 Calibration date: 04/06/89 Time: 1616

Lab File ID: A0406LC10 Init. Calib. Date(s): 04/04/89 04/04/89

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) WIDE

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.

COMPOUND		RRF	RRF50	%D	
Chloromethane	#	1.105	1.008	8.8	#
Bromomethane		0.657	0.728	-10.8	
Vinyl Chloride	*	1.432	1.391	2.9	*
Chloroethane		0.402	0.476	-18.4	
Methylene Chloride		1.760	1.395	20.7	
Acetone		0.282	0.317	-12.4	
Carbon Disulfide		2.928	2.744	6.3	
1,1-Dichloroethene	*	1.062	1.097	-3.3	*
1,1-Dichloroethane	#	4.185	2.639	36.9	#
1,2-Dichloroethene (total)		1.791	1.756	2.0	
Chloroform	*	4.995	4.989	0.1	*
1,2-Dichloroethane		0.339	0.387	-14.2	
2-Butanone		0.021	0.029	-38.1	
1,1,1-Trichloroethane		2.464	2.226	9.7	
Carbon Tetrachloride		0.219	0.222	-1.4	
Vinyl Acetate		0.171	0.182	-6.4	
Bromodichloromethane		0.388	0.347	10.6	
1,2-Dichloropropane	*	0.439	0.450	-2.5	*
cis-1,3-Dichloropropene		0.243	0.237	2.5	
Trichloroethene		0.373	0.361	3.2	
Dibromochloromethane		0.317	0.289	8.8	
1,1,2-Trichloroethane		0.358	0.344	3.9	
Benzene		0.995	0.949	4.6	
Trans-1,3-Dichloropropene		0.526	0.528	-0.4	
Bromoform	#	0.392	0.324	17.4	#
4-Methyl-2-Pentanone		0.394	0.339	14.0	
2-Hexanone		0.228	0.197	13.6	
Tetrachloroethene		0.327	0.310	5.2	
1,1,2,2-Tetrachloroethane	#	0.618	0.512	17.2	#
Toluene	*	1.488	1.443	3.0	*
Chlorobenzene	#	1.016	0.954	6.1	#
Ethylbenzene	*	0.539	0.529	1.9	*
Styrene		1.040	0.939	9.7	
Total Xylenes		0.625	0.557	10.9	
Toluene-d8		0.697	0.701	-0.6	
BFB		0.528	0.496	6.1	
1,2-Dichloroethane-d4		0.154	0.167	-8.4	

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Instrument ID: 5100 Calibration date: 04/07/89 Time: 1356

Lab File ID: A0407LC05 Init. Calib. Date(s): 04/04/89 04/04/89

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) WIDE

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0

COMPOUND		RRF	RRF50	%D	
Chloromethane	#	1.105	0.974	11.9	#
Bromomethane		0.657	0.535	18.6	
Vinyl Chloride	*	1.432	1.486	-3.8	*
Chloroethane		0.402	0.392	2.5	
Methylene Chloride		1.760	1.542	12.4	
Acetone		0.282	0.311	-10.3	
Carbon Disulfide		2.928	2.061	29.6	
1,1-Dichloroethene	*	1.062	1.020	4.0	*
1,1-Dichloroethane	#	4.185	2.848	32.0	#
1,2-Dichloroethene (total)		1.791	1.504	16.0	
Chloroform	*	4.995	4.792	4.1	*
1,2-Dichloroethane		0.339	0.366	-8.0	
2-Butanone		0.021	0.026	-23.8	
1,1,1-Trichloroethane		2.464	1.791	27.3	
Carbon Tetrachloride		0.219	0.236	-7.8	
Vinyl Acetate		0.171	0.167	2.3	
Bromodichloromethane		0.388	0.335	13.7	
1,2-Dichloropropane	*	0.439	0.392	10.7	*
cis-1,3-Dichloropropene		0.243	0.208	14.4	
Trichloroethene		0.373	0.382	-2.4	
Dibromochloromethane		0.317	0.264	16.7	
1,1,2-Trichloroethane		0.358	0.367	-2.5	
Benzene		0.995	1.014	-1.9	
Trans-1,3-Dichloropropene		0.526	0.561	-6.7	
Bromoform	#	0.392	0.375	4.3	#
4-Methyl-2-Pentanone		0.394	0.390	1.0	
2-Hexanone		0.228	0.239	-4.8	
Tetrachloroethene		0.327	0.331	-1.2	
1,1,2,2-Tetrachloroethane	#	0.618	0.612	1.0	#
Toluene	*	1.488	1.759	-18.2	*
Chlorobenzene	#	1.016	1.042	-2.6	#
Ethylbenzene	*	0.539	0.586	-8.7	*
Styrene		1.040	1.011	2.8	
Total Xylenes		0.625	0.604	3.4	
Toluene-d8		0.697	0.843	-21.0	
BFB		0.528	0.570	-8.0	
1,2-Dichloroethane-d4		0.154	0.162	-5.2	

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Lab File ID (Standard): A0405LC07 Date Analyzed: 04/05/89

Instrument ID: 5100 Time Analyzed: 1307

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) WIDE

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	19900	1.62	101000	4.90	71400	15.24
	UPPER LIMIT	39800		202000		142800	
	LOWER LIMIT	9950		50500		35700	
	EPA SAMPLE NO.						
01	G101	23000	1.65	103000	4.93	69400	15.27
02	G101DL	19600	1.63	90400	4.85	60300	15.24
03	G102	23100	1.68	90500	5.28	62800	15.57
04	G102MS	14200	1.60	92600	4.83	69100	15.17
05	G102MSD	15400	1.63	96400	5.00	72300	15.34
06	G103	23500	1.65	100000	4.92	66100	15.29
07	PW_4	21700	1.63	102000	4.92	71900	15.25
08	VBLKW	19500	1.63	93900	4.90	68800	15.22

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Lab File ID (Standard): A0406LC10 Date Analyzed: 04/06/89

Instrument ID: 5100 Time Analyzed: 1616

Matrix:(soil/water) SOIL Level:(low/med) _____ Column:(pack/cap) WIDE

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	22100	1.65	116000	5.15	102000	15.52
	UPPER LIMIT	44200		232000		204000	
	LOWER LIMIT	11050		58000		51000	
	EPA SAMPLE NO.						
01	G104	12400	1.58	83300	4.83	82800	15.22
02	VBLKSL	24300	1.67	112000	5.10	81200	15.45
03	VBLKSM	18500	1.60	121000	4.92	86500	15.29
04	X101	14700	1.58	113000	4.87	89700	15.22
05	X103	16400	1.63	61800	4.93	32300 *	15.30
06	X105	15400	1.57	110000	5.15	109000	15.25
07	X106	18000	1.67	65400	5.25	40100 *	15.57

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Lab File ID (Standard): A0407LC05 Date Analyzed: 04/07/89

Instrument ID: 5100 Time Analyzed: 1356

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) WIDE

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	23200	1.62	134000	5.02	101000	15.37
	UPPER LIMIT	46400		268000		202000	
	LOWER LIMIT	11600		67000		50500	
	EPA SAMPLE NO.						
01	G104DL	20100	1.58	145000	4.83	97400	15.24
02	VBLKSL	23100	1.60	129000	4.82	119000	15.14
03	VBLKSM	20800	1.63	115000	4.83	115000	15.15
04	X102	20800	1.62	100000	4.85	79600	15.22
05	X102MS	14200	1.60	92600	4.83	69100	15.17
06	X102MSD	15400	1.63	96400	5.00	72300	15.34
07	X103MS	14200	1.60	92600	4.83	69100	15.17
08	X103MSD	15400	1.63	96400	5.00	72300	15.34
09	X104	20700	1.60	131000	4.87	101000	15.24
10	X104DL	17300	1.58	126000	4.92	84800	15.27
11	X105DL	18000	1.58	130000	4.87	89800	15.24

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

SBLKW

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) WATER Lab Sample ID: D971851

Sample wt/vol: 1000 (g/mL) ML Lab File ID: APR04HK02

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

% Moisture: not dec. ____ dec. ____ Date Extracted: _____

Extraction: (SepF/Cont/Sonc) ____ Date Analyzed: 04/04/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

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

CAS NO.	COMPOUND		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
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	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
65-85-0	Benzoic Acid	50	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	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

SBLKW

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D9718I

Matrix: (soil/water) WATER Lab Sample ID: D971851

Sample wt/vol: 1000 (g/mL) ML Lab File ID: APR04HK02

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

% Moisture: not dec. ____ dec. ____ Date Extracted: _____

Extraction: (SepF/Cont/Sonc) ____ Date Analyzed: 04/04/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

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

CAS NO.	COMPOUND		Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	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	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	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	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	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	20	U
56-55-3	Benzo(a)Anthracene	10	U
~~117-81-7~~	~~bis(2-Ethylhexyl)Phthalate~~	~~10~~	~~U~~
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	1	J
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 N

SBLKW

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) _____ Lab Sample ID: D971851

Sample wt/vol: 1000 (g/mL) ML Lab File ID: APR04HK02T

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

% Moisture: not dec. _____ dec. _____ Date Extracted: _____

Extraction: (SepF/Cont/Sonc) _____ Date Analyzed: 04/04/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.10	25	AJ

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

SBLKSL

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) SOIL Lab Sample ID: D971956

Sample wt/vol: 30.0 (g/mL) G Lab File ID: APR13HK03

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

% Moisture: not dec. ____ dec. ____ Date Extracted: _____

Extraction: (SepF/Cont/Sonc) ____ Date Analyzed: 04/13/89

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
100-51-6	Benzyl Alcohol	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
39638-32-9	bis(2-Chloroisopropyl)Ether	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-Di-n-Propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
65-85-0	Benzoic Acid	1600	U
111-91-1	bis(2-Chloroethoxy)Methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-Methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	1600	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	1600	U
131-11-3	Dimethyl Phthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

SBLKSL

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) SOIL Lab Sample ID: D971956

Sample wt/vol: 30.0 (g/mL) G Lab File ID: APR13HK03

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

% Moisture: not dec. _____ dec. _____ Date Extracted: _____

Extraction: (SepF/Cont/Sonc) _____ Date Analyzed: 04/13/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	1600	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	1600	U
100-02-7	4-Nitrophenol	1600	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-10-6	4-Nitroaniline	1600	U
534-52-1	4,6-Dinitro-2-Methylphenol	1600	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	1600	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
84-74-2	Di-n-Butylphthalate	30	J
206-44-0	Fluoranthene	16	J
129-00-0	Pyrene	21	J
85-68-7	Butylbenzylphthalate	25	J
91-94-1	3,3'-Dichlorobenzidine	660	J
56-55-3	Benzo(a)Anthracene	330	U
117-81-7	bis(2-Ethylhexyl)Phthalate	330	U
218-01-9	Chrysene	19	J
117-81-7	bis(2-Ethylhexyl)Phthalate	25	J
117-84-0	Di-n-Octyl Phthalate	330	U
205-99-2	Benzo(b)Fluoranthene	330	U
207-08-9	Benzo(k)Fluoranthene	330	U
50-32-8	Benzo(a)Pyrene	330	U
193-39-5	Indeno(1,2,3-cd)Pyrene	330	U
53-70-3	Dibenz(a,h)Anthracene	330	U
191-24-2	Benzo(g,h,i)Perylene	330	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE N

SBLKSL

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) _____ Lab Sample ID: D971956

Sample wt/vol: 30.0 (g/mL) ML Lab File ID: APR13HK03T

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

% Moisture: not dec. ____ dec. ____ Date Extracted: _____

Extraction: (SepF/Cont/Sonc) ____ Date Analyzed: 04/13/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.0300

Number TICs found: 4

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.75	13000	AJ
2.	UNKNOWN	6.40	850	AJ
3.	UNKNOWN	7.47	410	AJ
4.	UNKNOWN ALIPHATIC ACID ESTER	25.64	1700	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

SBLKSM

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) SOIL Lab Sample ID: D94268LK

Sample wt/vol: 0.10 (g/mL) G Lab File ID: APR26GK03

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

% Moisture: not dec. ____ dec. ____ Date Extracted: _____

Extraction: (SepF/Cont/Sonc) ____ Date Analyzed: 04/26/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	200000	U
111-44-4	bis(2-Chloroethyl)Ether	200000	U
95-57-8	2-Chlorophenol	200000	U
541-73-1	1,3-Dichlorobenzene	200000	U
106-46-7	1,4-Dichlorobenzene	200000	U
100-51-6	Benzyl Alcohol	200000	U
95-50-1	1,2-Dichlorobenzene	200000	U
95-48-7	2-Methylphenol	200000	U
39638-32-9	bis(2-Chloroisopropyl)Ether	200000	U
106-44-5	4-Methylphenol	200000	U
621-64-7	N-Nitroso-Di-n-Propylamine	200000	U
67-72-1	Hexachloroethane	200000	U
98-95-3	Nitrobenzene	200000	U
78-59-1	Isophorone	200000	U
88-75-5	2-Nitrophenol	200000	U
105-67-9	2,4-Dimethylphenol	200000	U
65-85-0	Benzoic Acid	960000	U
111-91-1	bis(2-Chloroethoxy)Methane	200000	U
120-83-2	2,4-Dichlorophenol	200000	U
120-82-1	1,2,4-Trichlorobenzene	200000	U
91-20-3	Naphtalene	200000	U
106-47-8	4-Chloroaniline	200000	U
87-68-3	Hexachlorobutadiene	200000	U
59-50-7	4-Chloro-3-Methylphenol	200000	U
91-57-6	2-Methylnaphthalene	200000	U
77-47-4	Hexachlorocyclopentadiene	200000	U
88-06-2	2,4,6-Trichlorophenol	200000	U
95-95-4	2,4,5-Trichlorophenol	960000	U
91-58-7	2-Chloronaphthalene	200000	U
88-74-4	2-Nitroaniline	960000	U
131-11-3	Dimethyl Phthalate	200000	U
208-96-8	Acenaphthylene	200000	U
606-20-2	2,6-Dinitrotoluene	200000	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

SBLKSM

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix: (soil/water) SOIL Lab Sample ID: D9426BLK

Sample wt/vol: 0.10 (g/mL) G Lab File ID: APR26GK03

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

% Moisture: not dec. ____ dec. ____ Date Extracted: _____

Extraction: (SepF/Cont/Sonc) ____ Date Analyzed: 04/26/89

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	960000	U
83-32-9	Acenaphthene	200000	U
51-28-5	2,4-Dinitrophenol	960000	U
100-02-7	4-Nitrophenol	960000	U
132-64-9	Dibenzofuran	200000	U
121-14-2	2,4-Dinitrotoluene	200000	U
84-66-2	Diethylphthalate	200000	U
7005-72-3	4-Chlorophenyl-phenylether	200000	U
86-73-7	Fluorene	200000	U
100-10-6	4-Nitroaniline	960000	U
534-52-1	4,6-Dinitro-2-Methylphenol	960000	U
86-30-6	N-Nitrosodiphenylamine (1)	200000	U
101-55-3	4-Bromophenyl-phenylether	200000	U
118-74-1	Hexachlorobenzene	200000	U
87-86-5	Pentachlorophenol	960000	U
85-01-8	Phenanthrene	200000	U
120-12-7	Anthracene	200000	U
84-74-2	Di-n-Butylphthalate	200000	U
206-44-0	Fluoranthene	200000	U
129-00-0	Pyrene	200000	U
85-68-7	Butylbenzylphthalate	15000	J
91-94-1	3,3'-Dichlorobenzidine	400000	U
56-55-3	Benzo(a)Anthracene	200000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	200000	U
218-01-9	Chrysene	200000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	15000	J
117-84-0	Di-n-Octyl Phthalate	200000	U
205-99-2	Benzo(b)Fluoranthene	200000	U
207-08-9	Benzo(k)Fluoranthene	200000	U
50-32-8	Benzo(a)Pyrene	200000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	200000	U
53-70-3	Dibenz(a,h)Anthracene	200000	U
191-24-2	Benzo(g,h,i)Perylene	200000	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE No.

SBLKSM

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D9718I

Matrix: (soil/water) SOIL Lab Sample ID: D9426BLK

Sample wt/vol: 0.10 (g/mL) G Lab File ID: APR26GK0I

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

% Moisture: not dec. ____ dec. ____ Date Extracted: _____

Extraction: (SepF/Cont/Sonc) ____ Date Analyzed: 04/26/89

GPC Cleanup: (Y/N) N pH: ____ Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	OTHER	TOT. OUT
01	G101	60	30 *	74	30	35	80		1
02	G102	33 *	53	108	36	31	77		1
03	G103	37	68	77	25	29	94		0
04	PW_4	62	66	84	29	31	94		0
05	SBLKW	57	65	121	35	43	129 *		1

		QC LIMITS
S1 (NBZ)	= Nitrobenzene-d5	(35-114)
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)
S3 (TPH)	= Terphenyl	(33-141)
S4 (PHL)	= Phenol-d5	(10-94)
S5 (2FP)	= 2-Fluorophenol	(21-100)
S6 (TBP)	= 2,4,6-Tribromophenol	(10-123)

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

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2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	OTHER	TOT OUT
01	SBLKSL	36	42	52	32	29	50		0
02	X101	61	98	125	66	57	97		0
03	X102	30	42	57	38	29	52		0
04	X103	34	30	59	37	45	26		0
05	X104	55	89	95	63	56	55		0
06	X106	29	72	63	63	41	54		0

	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	(23-120)
S2 (FBP) = 2-Fluorobiphenyl	(30-115)
S3 (TPH) = Terphenyl	(18-137)
S4 (PHL) = Phenol-d5	(24-113)
S5 (2FP) = 2-Fluorophenol	(25-121)
S6 (TBP) = 2,4,6-Tribromophenol	(19-122)

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

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Level: (low/med) MED

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	OTHER	TOT OUT
01	G104	95	95	101	113	105	96		0
02	SBLKSM	99	100	100	100	96	100		0
03	X105	96	94	106	115 *	110	93		1

		QC LIMITS
S1 (NBZ)	= Nitrobenzene-d5	(23-120)
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)
S3 (TPH)	= Terphenyl	(18-137)
S4 (PHL)	= Phenol-d5	(24-113)
S5 (2FP)	= 2-Fluorophenol	(25-121)
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)

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

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix Spike - EPA Sample No.: G101

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMI REC
Phenol	100	0	31.1	31	12-
2-Chlorophenol	100	0	38.4	38	27-1
1,4-Dichlorobenzene	100	0	33.5	34 *	36
N-Nitroso-di-n-prop.(1)	100	0	48.4	48	41 1
1,2,4-Trichlorobenzene	100	0	39.3	39	39
4-Chloro-3-methylphenol	100	0	69.1	69	23
Acenaphthene	100	0	62.3	62	46-1
4-Nitrophenol	100	0	55.4	55	10-
2,4-Dinitrotoluene	100	0	93.4	93	24-
Pentachlorophenol	100	0	92.2	92	9-1
Pyrene	100	0	84.4	84	26-1

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	REC
Phenol	100	44.1	44	-35	42	12-
2-Chlorophenol	100	39.4	39	-3	40	27-1
1,4-Dichlorobenzene	100	37.5	38	-11	28	36
N-Nitroso-di-n-prop.(1)	100	53.1	53	-10	38	41 1
1,2,4-Trichlorobenzene	100	41.1	41	-5	28	39
4-Chloro-3-methylphenol	100	72.0	72	-4	42	23
Acenaphthene	100	66.9	67	-8	31	46-1
4-Nitrophenol	100	57.4	57	-4	50	10-
2,4-Dinitrotoluene	100	95.4	95	-2	38	24-
Pentachlorophenol	100	93.5	94	-2	50	9-1
Pyrene	100	90.1	90	-7	31	26-1

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

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

RPD: 1 out of 11 outside limits
Spike Recovery: 1 out of 22 outside limits

COMMENTS:

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Matrix Spike - EPA Sample No.: X102 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMI REC
Phenol	100	0	35.1	35	26-
2-Chlorophenol	100	0	40.1	40	25-1
1,4-Dichlorobenzene	100	0	36.1	36	28 1
N-Nitroso-di-n-prop.(1)	100	0	47.1	47	41 1
1,2,4-Trichlorobenzene	100	0	41.5	42	38 1
4-Chloro-3-methylphenol	100	0	69.0	69	26 1
Acenaphthene	100	0	65.0	65	31-1
4-Nitrophenol	100	0	63.9	64	11-1
2,4-Dinitrotoluene	100	0	96.9	97 *	28-
Pentachlorophenol	100	0	91.1	91	17-1
Pyrene	100	187	243	56	35-1

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	REC
Phenol	100	38.5	39	-11	35	26-
2-Chlorophenol	100	44.9	45	-12	50	25-1
1,4-Dichlorobenzene	100	35.0	35	3	27	28 1
N-Nitroso-di-n-prop.(1)	100	46.3	46	2	38	41 1
1,2,4-Trichlorobenzene	100	42.0	42	0	23	38 1
4-Chloro-3-methylphenol	100	69.2	69	0	33	26 1
Acenaphthene	100	62.5	63	3	19	31-1
4-Nitrophenol	100	60.1	60	6	50	11-1
2,4-Dinitrotoluene	100	94.6	95 *	2	47	28- 9
Pentachlorophenol	100	91.0	91	0	47	17-1
Pyrene	100	249	62	-10	36	35-1-

1 N-Nitroso-di-n-propylamine

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

RPD: 1 out of 11 outside limits
Spike Recovery: 2 out of 22 outside limits

COMMENTS:

4B
SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Lab File ID: APR04HK02 Lab Sample ID: D971851

Date Extracted: _____ Extraction:(SepF/Cont/Sonc) ____

Date Analyzed: 04/04/89 Time Analyzed: 1717

Matrix: (soil/water) WATER Level:(low/med) LOW

Instrument ID: 4021

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES. MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	G101	D971835	APR04HK04	04/04/89
02	G101	D971835	APR04HK04T	04/04/89
03	G101MS	D971850	APR05HK04	04/05/89
04	G101MSD	D971850R	APR05HK05	04/05/89
05	G102	D971830	APR04HK03	04/04/89
06	G102	D971830	APR04HK03T	04/04/89
07	G103	D971834	APR04HK05	04/04/89
08	G103	D971834	APR04HK05T	04/04/89
09	PW_4	D971838	APR04HK06	04/04/89
10	PW_4	D971838	APR04HK06T	04/04/89

COMMENTS:

4B
SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97133

Lab File ID: APR13HK03 Lab Sample ID: D971956

Date Extracted: _____ Extraction:(SepF/Cont/Sonc) ____

Date Analyzed: 04/13/89 Time Analyzed: 1758

Matrix: (soil/water) SOIL Level:(low/med) LOW

Instrument ID: 4021

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	X101	D971833	APR13HK04	04/13/89
02	X101	D971833	APR13HK04T	04/26/89
03	X102	D971832	APR13HK06	04/13/89
04	X102	D971832	APR13HK06T	04/13/89
05	X102MS	D971855	APR24HK05	04/24/89
06	X102MSD	D971855R	APR24HK06	04/24/89
07	X103	D971836	APR13HK08	04/13/89
08	X103	D971836	APR13HK08T	04/13/89
09	X104	D971831	APR13HK05	04/13/89
10	X104	D971831	APR13HK05T	04/13/89
11	X106	D971837	APR24HK03	04/24/89
12	X106	D9971837	APR24HK03T	04/24/89

COMMENTS:

4B
SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Lab File ID: APR26GK03 Lab Sample ID: D9426BLK

Date Extracted: _____ Extraction:(SepF/Cont/Sonc) ____

Date Analyzed: 04/26/89 Time Analyzed: 1720

Matrix: (soil/water) SOIL Level:(low/med) MED

Instrument ID: 4021

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	G104	D971839	APR26HK03	04/26/89
02	G104	D971839	APR26HK03T	04/26/89
03	X105	D971840	APR26HK04	04/26/89
04	X105	D971840	APR26HK04T	04/26/89

COMMENTS:

5B

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: EPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Lab File ID: APR04GK01 DFTPP Injection Date: 04/04/89

Instrument ID: 4021 DFTPP Injection Time: 1531

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	58.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	51.8
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	51.0
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.0
275	10.0 - 30.0% of mass 198	22.6
365	Greater than 1.00% of mass 198	1.54
441	Present, but less than mass 443	9.9
442	Greater than 40.0% of mass 198	76.8
443	17.0 - 23.0% of mass 442	13.7 (17.9)2

1-Value is % mass 69 2-Value is % mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SBLKW	D971851	APR04HK02	04/04/89	1717
02	SBLKW	D971351	APR04HK02T	04/04/89	1717
03	G102	D971830	APR04HK03	04/04/89	1823
04	G102	D971830	APR04HK03T	04/04/89	1823
05	G101	D971835	APR04HK04	04/04/89	1921
06	G101	D971835	APR04HK04T	04/04/89	1921
07	G103	D971834	APR04HK05	04/04/89	2024
08	G103	D971834	APR04HK05T	04/04/89	2024
09	PW_4	D971833	APR04HK06	04/04/89	2127
10	PW_4	D971833	APR04HK06T	04/04/89	2127
11		040489STD	APR04HK01	04/14/89	1616

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5B

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Lab File ID: APR05HK01 DFTPP Injection Date: 04/05/89

Instrument ID: 4021 DFTPP Injection Time: 1559

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	54.1
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	49.3
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	51.8
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	23.3
365	Greater than 1.00% of mass 198	2.67
441	Present, but less than mass 443	10.2
442	Greater than 40.0% of mass 198	76.0
443	17.0 - 23.0% of mass 442	13.3 (17.5)2

1-Value is % mass 69 2-Value is % mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	G101MS	D971350	APR05HK04	04/05/89	1823
02	G101MSD	D971350R	APR05HK05	04/05/89	1913
03		040589STD	APR05HK06	04/15/89	2013

5B

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SFFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Lab File ID: APR13HK01 DFTPP Injection Date: 04/13/89

Instrument ID: 4021 DFTPP Injection Time: 1622

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	55.9
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	52.4
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	50.7
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	23.0
365	Greater than 1.00% of mass 198	2.39
441	Present, but less than mass 443	11.5
442	Greater than 40.0% of mass 198	82.8
443	17.0 - 23.0% of mass 442	14.2 (17.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		041389ETD	APR13HK02	04/13/89	1704
02	SBLKSL	D971956	APR13HK03	04/13/89	1758
03	SBLKSL	D971956	APR13HK03T	04/13/89	1758
04	X101	D971833	APR13HK04	04/13/89	1853
05	X104	D971831	APR13HK05	04/13/89	1955
06	X104	D971831	APR13HK05T	04/13/89	1955
07	X102	D971832	APR13HK06	04/13/89	2054
08	X102	D971832	APR13HK06T	04/13/89	2054
09	X103	D971836	APR13HK08	04/13/89	2253
10	X103	D971836	APR13HK08T	04/13/89	2253
11	X101	D971833	APR13HK04T	04/26/89	1809

5B

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D971833

Lab File ID: APR24HK01 DFTPP Injection Date: 04/24/89

Instrument ID: 4021 DFTPP Injection Time: 1646

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	50.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	51.0
70	Less than 2.0% of mass 69	0.1 (0.1)1
127	40.0 - 60.0% of mass 198	50.8
197	Less than 1.0% of mass 198	0.1
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.3
275	10.0 - 30.0% of mass 198	23.4
365	Greater than 1.00% of mass 198	2.08
441	Present, but less than mass 443	9.6
442	Greater than 40.0% of mass 198	73.0
443	17.0 - 23.0% of mass 442	13.1 (18.0)2

1-value is % mass 69 2-Value is % mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	X106	D971837	APR24HK01T	04/24/89	1609
02		042489STD	APR24HK02	04/24/89	1706
03	X106	D971837	APR24HK03	04/24/89	1809
04	X102MS	D971855	APR24HK05	04/24/89	1909
05	X102MSD	D971855R	APR24HK06	04/24/89	2012

5B

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Lab File ID: APR26HK01 DFTPP Injection Date: 04/26/89

Instrument ID: 4021 DFTPP Injection Time: 1630

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	57.5
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	50.1
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	48.2
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.2
275	10.0 - 30.0% of mass 198	23.7
365	Greater than 1.00% of mass 198	2.23
441	Present, but less than mass 443	11.9
442	Greater than 40.0% of mass 198	90.4
443	17.0 - 23.0% of mass 442	17.4 (19.3)2

1-Value is % mass 69 2-Value is % mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	X105	D971840	APR26HK04	04/26/89	1907
02	X105	D971840	APR26HK04T	04/26/89	1903
03	SBLKSM	D9426BLK	APR26HK03	04/26/89	1733
04	G104	D971839	APR26HK03	04/26/89	1809
05	G104	D971839	APR26HK03T	04/26/89	1809

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Instrument ID: 4021 Calibration Date(s): 03/20/89 03/20/89

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.0

LAB FILE ID: RRF20 = MAR20G02 RRF50 = MAR20G05
RRF80 = MAR20G06 RRF120= MAR20G08 RRF160= MAR20HK02

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Phenol *	1.121	1.064	1.070	1.106	0.950	1.062	6.3
bis(2-Chloroethyl)Ether	1.004	0.953	0.932	0.863	0.824	0.915	7.9
2-Chlorophenol	0.882	0.920	0.834	0.828	0.715	0.836	9.2
1,3-Dichlorobenzene	1.011	0.922	0.873	0.777	0.695	0.856	14.4
1,4-Dichlorobenzene *	1.088	0.953	0.880	0.760	0.696	0.875	17.8
Benzyl Alcohol	0.439	0.549	0.478	0.462	0.415	0.469	10.8
1,2-Dichlorobenzene	1.014	0.954	0.855	0.691	0.661	0.835	18.7
2-Methylphenol	0.755	0.759	0.704	0.613	0.548	0.676	13.7
bis(2-Chloroisopropyl)Ether	1.572	1.569	1.420	1.278	1.141	1.396	13.4
4-Methylphenol	0.721	0.765	0.653	0.595	0.511	0.649	15.5
N-Nitroso-Di-n-Propylamine #	0.671	0.665	0.594	0.373	0.472	0.555	23.3
Hexachloroethane	0.345	0.326	0.298	0.248	0.243	0.292	15.6
Nitrobenzene	0.434	0.410	0.408	0.429	0.388	0.414	4.4
Isophorone	0.929	0.943	0.903	0.997	0.862	0.927	5.4
2-Nitrophenol *	0.219	0.287	0.260	0.268	0.252	0.257	9.7
2,4-Dimethylphenol	0.341	0.374	0.346	0.363	0.325	0.350	5.5
Benzoic Acid		0.184	0.135	0.044	0.061	0.106	61.6
bis(2-Chloroethoxy)Methane	0.609	0.610	0.566	0.580	0.529	0.579	5.8
2,4-Dichlorophenol *	0.331	0.360	0.340	0.322	0.293	0.329	7.5
1,2,4-Trichlorobenzene	0.405	0.392	0.356	0.305	0.302	0.352	13.6
Napnthalene	1.381	1.240	1.140	1.011	0.946	1.144	15.3
4-Chloroaniline	0.218	0.393	0.451	0.484	0.403	0.390	26.4
Hexachlorobutadiene *	0.175	0.174	0.159	0.138	0.134	0.156	12.4
4-Chloro-3-Methylphenol *	0.310	0.371	0.337	0.369	0.308	0.339	9.0
2-Methylnaphthalene	0.862	0.832	0.763	0.706	0.639	0.760	12.0
Hexachlorocyclopentadiene #	0.165	0.164	0.165	0.194	0.204	0.178	10.8
2,4,6-Trichlorophenol *	0.428	0.502	0.427	0.367	0.356	0.416	14.1
2,4,5-Trichlorophenol	0.417	0.482	0.455	0.375	0.369	0.420	13.5
2-Chloronaphthalene	1.667	1.547	1.380	1.166	1.110	1.374	17.4
2-Nitroaniline	0.372	0.463	0.430	0.455	0.386	0.434	8.0
Dimethyl Phthalate	1.716	1.655	1.563	1.363	1.338	1.527	11.2
Acenaphthylene	2.529	2.257	2.040	1.421	1.500	1.949	24.6
2,6-Dinitrotoluene	0.380	0.453	0.415	0.258	0.308	0.363	21.8
3-Nitroaniline	0.336	0.386	0.433	0.438	0.383	0.410	7.2
Acenaphthene *	1.531	1.375	1.240	1.045	0.951	1.228	19.3
2,4-Dinitrophenol #		0.138	0.150	0.245	0.196	0.182	26.8
4-Nitrophenol #		0.084	0.072	0.087	0.064	0.077	13.9

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Instrument ID: 4021 Calibration Date(s): 03/20/89 03/20/89

Min RRF for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.

LAB FILE ID: RRF20 = MAR20G02 RRF50 = MAR20G05
RRF80 = MAR20G06 RRF120= MAR20G08 RRF160= MAR20HK02

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	RRF	% RSD
Dibenzofuran	2.200	2.011	1.669	1.200	1.211	1.658	27.
2,4-Dinitrotoluene	0.472	0.540	0.481	0.408	0.361	0.452	15.
Diethylphthalate	1.630	1.487	1.466	1.143	1.192	1.384	15.
4-Chlorophenyl-phenylether	0.695	0.577	0.564	0.401	0.396	0.547	26.
Fluorene	1.660	1.476	1.303	0.950	0.934	1.265	25.
4-Nitroaniline	0.235	0.338	0.328	0.356	0.273	0.324	11.
4,6-Dinitro-2-Methylphenol	0.167	0.163	0.150	0.152	0.145	0.153	5.
N-Nitrosodiphenylamine (1) *	0.383	0.309	0.402	0.371	0.377	0.368	9.
4-Bromophenyl-phenylether	0.232	0.240	0.215	0.165	0.180	0.206	15.
Hexachlorobenzene	0.267	0.253	0.224	0.173	0.186	0.221	18.
Pentachlorophenol *		0.103	0.147	0.141	0.138	0.132	15.
Phenanthrene	1.271	1.162	1.078	0.799	0.881	1.038	18.
Anthracene	1.196	1.174	0.944	0.733	0.772	0.964	22.
Di-n-Butylphthalate	1.384	1.496	1.217	1.002	0.980	1.216	18.
Fluoranthene *	1.274	1.245	1.023	0.845	0.805	1.038	21.
Pyrene	1.306	1.290	1.030	0.842	0.817	1.057	22.
Butylbenzylphthalate	0.911	0.898	0.850	0.774	0.769	0.840	8.
3,3'-Dichlorobenzidine	0.299	0.196	0.496	0.453	0.487	0.386	34.
Benzo(a)Anthracene	1.153	1.352	1.282	1.080	1.081	1.190	10.
bis(2-Ethylhexyl)Phthalate	1.327	1.279	1.244	1.122	1.122	1.219	7.
Chrysene	1.523	1.464	1.371	1.149	1.189	1.339	12.
bis(2-Ethylhexyl)Phthalate	1.327	1.279	1.244	1.122	1.122	1.219	7.
Di-n-Octyl Phthalate *	3.469	3.018	3.401	2.558	2.608	3.011	14.
Benzo(b)Fluoranthene	2.351	1.814	2.269	1.894	1.886	2.043	12.
Benzo(k)Fluoranthene	2.114	1.665	1.873	1.894	1.454	1.800	13.
Benzo(a)Pyrene *	2.071	1.697	2.093	1.581	1.760	1.840	12.
Indeno(1,2,3-cd)Pyrene	1.707	1.122	1.847	0.750	1.639	1.413	32.
Dibenz(a,h)Anthracene	1.371	1.057	1.755	1.267	1.556	1.401	19.
Benzo(g,h,i)Perylene	1.484	1.011	1.749	1.231	1.527	1.400	20.
Nitrobenzene-d5	0.307	0.337	0.365	0.365	0.330	0.341	7.
2-Fluorobiphenyl	1.334	1.239	1.401	1.290	1.310	1.315	4.
Terphenyl-d14	1.007	0.807	0.991	0.899	1.109	0.963	11.
Phenol-d5	1.211	1.103	1.111	0.998	1.109	1.106	6.
2-Fluorophenyl	1.273	1.103	1.009	0.989	1.220	1.119	11.
2,4,6-Tribromophenol	0.299	0.199	0.205	0.219	0.229	0.230	17.

1: Cannot be separated from Diphenylamine

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Instrument ID: 4021 Calibration date: 04/14/89 Time: 1616

Lab File ID: APR04HK01 Init. Calib. Date(s): 03/20/89 03/20/89

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0

COMPOUND	RRF	RRF50	%D
Phenol *	1.062	0.854	19.6 *
bis(2-Chloroethyl)Ether	0.915	0.904	1.2
2-Chlorophenol	0.836	0.784	6.2
1,3-Dichlorobenzene	0.856	0.891	-4.1
1,4-Dichlorobenzene *	0.875	0.905	-3.4 *
Benzyl Alcohol	0.469	0.445	5.1
1,2-Dichlorobenzene	0.835	0.857	-2.6
2-Methylphenol	0.676	0.619	8.4
bis(2-Chloroisopropyl)Ether	1.396	1.392	0.3
4-Methylphenol	0.649	0.602	7.2
N-Nitroso-Di-n-Propylamine #	0.555	0.390	29.7 #
Hexachloroethane	0.292	0.313	-7.2
Nitrobenzene	0.414	0.326	21.3
Isophorone	0.927	0.703	24.2
2-Nitrophenol *	0.257	0.224	12.8 *
2,4-Dimethylphenol	0.350	0.262	25.1
Benzoic Acid	0.106	0.077	27.4
bis(2-Chloroethoxy)Methane	0.579	0.492	15.0
2,4-Dichlorophenol *	0.329	0.252	23.4 *
1,2,4-Trichlorobenzene	0.352	0.336	4.5
Naphthalene	1.144	1.031	9.9
4-Chloroaniline	0.390	0.343	12.1
Hexachlorobutadiene *	0.156	0.157	-0.6 *
4-Chloro-3-Methylphenol *	0.339	0.270	20.4 *
2-Methylnaphthalene	0.760	0.685	9.9
Hexachlorocyclopentadiene #	0.178	0.181	-1.7 #
2,4,6-Trichlorophenol *	0.416	0.437	-5.0 *
2,4,5-Trichlorophenol	0.420	0.413	1.7
2-Chloronaphthalene	1.374	1.327	3.4
2-Nitroaniline	0.434	0.358	17.5
Dimethyl Phthalate	1.527	1.518	0.6
Acenaphthylene	1.949	2.083	-6.9
2,6-Dinitrotoluene	0.363	0.382	-5.2
3-Nitroaniline	0.410	0.280	31.7
Acenaphthene *	1.228	1.242	-1.1 *
2,4-Dinitrophenol #	0.132	0.190	-4.4 #
4-Nitrophenol #	0.077	0.094	-22.1 #

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Instrument ID: 4021 Calibration date: 04/14/89 Time: 1616

Lab File ID: APR04HK01 Init. Calib. Date(s): 03/20/89 03/20/89

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0

COMPOUND	RRF	RRF50	%D	
Dibenzofuran	1.658	1.825	-10.1	
2,4-Dinitrotoluene	0.452	0.457	-1.1	
Diethylphthalate	1.384	1.309	5.4	
4-Chlorophenyl-phenylether	0.547	0.664	-21.4	
Fluorene	1.265	1.360	-7.5	
4-Nitroaniline	0.324	0.253	21.9	
4,6-Dinitro-2-Methylphenol	0.153	0.126	17.7	
N-Nitrosodiphenylamine (1)	0.368	0.390	5.8	*
4-Bromophenyl-phenylether	0.206	0.222	-7.8	
Hexachlorobenzene	0.221	0.230	-4.1	
Pentachlorophenol	0.132	0.097	26.5	*
Phenanthrene	1.038	0.922	11.2	
Anthracene	0.964	1.014	-5.2	
Di-n-Butylphthalate	1.216	1.145	5.8	
Fluoranthene	1.038	1.045	-0.7	*
Pyrene	1.057	1.024	3.1	
Butylbenzylphthalate	0.840	0.763	9.2	
3,3'-Dichlorobenzidine	0.386	0.201	47.9	
Benzo(a)Anthracene	1.190	1.353	-13.7	
bis(2-Ethylhexyl)Phthalate	1.219	1.017	16.6	
Chrysene	1.339	1.305	2.5	
bis(2-Ethylhexyl)Phthalate	1.219	1.017	16.6	
Di-n-Octyl Phthalate	3.011	3.055	-1.5	*
Benzo(b)Fluoranthene	2.043	1.885	7.7	
Benzo(k)Fluoranthene	1.800	2.063	-14.6	
Benzo(a)Pyrene	1.840	1.827	0.7	*
Indeno(1,2,3-cd)Pyrene	1.413	0.717	49.3	
Dibenz(a,h)Anthracene	1.401	0.636	54.6	
Benzo(g,h,i)Perylene	1.400	0.452	67.7	
Nitrobenzene-d5	0.341	0.324	5.0	
2-Fluorobiphenyl	1.315	1.380	-4.9	
Terphenyl-d14	0.963	1.036	-7.6	
Phenol-d5	1.106	1.108	-0.2	
2-Fluorophenyl	1.119	1.273	-13.8	
2,4,6-Tribromophenol	0.230	0.275	-19.6	

(1) Cannot be separated from Diphenylamine

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Instrument ID: 4021 Calibration date: 04/15/89 Time: 2013

Lab File ID: APR05HK06 Init. Calib. Date(s): 03/20/89 03/20/89

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0

COMPOUND	RRF	RRF50	%D
Phenol *	1.062	0.893	15.9 *
bis(2-Chloroethyl)Ether	0.915	0.874	4.5
2-Chlorophenol	0.836	0.847	-1.3
1,3-Dichlorobenzene	0.856	0.874	-2.1
1,4-Dichlorobenzene *	0.875	0.912	-4.2 *
Benzyl Alcohol	0.469	0.434	7.5
1,2-Dichlorobenzene	0.835	0.834	0.1
2-Methylphenol	0.676	0.676	0.0
bis(2-Chloroisopropyl)Ether	1.396	1.330	4.7
4-Methylphenol	0.649	0.662	-2.0
N-Nitroso-Di-n-Propylamine #	0.555	0.614	-10.6 #
Hexachloroethane	0.292	0.293	-0.3
Nitrobenzene	0.414	0.319	23.0
Isophorone	0.927	0.744	19.7
2-Nitrophenol *	0.257	0.229	10.9 *
2,4-Dimethylphenol	0.350	0.273	22.0
Benzoic Acid	0.106	0.059	44.3
bis(2-Chloroethoxy)Methane	0.579	0.524	9.5
2,4-Dichlorophenol *	0.329	0.282	14.3 *
1,2,4-Trichlorobenzene	0.352	0.328	6.8
Naphthalene	1.144	1.056	7.7
4-Chloroaniline	0.390	0.367	5.9
Hexachlorobutadiene *	0.156	0.151	3.2 *
4-Chloro-3-Methylphenol *	0.339	0.269	20.7 *
2-Methylnaphthalene	0.760	0.715	5.9
Hexachlorocyclopentadiene #	0.178	0.232	-30.3 #
2,4,6-Trichlorophenol *	0.416	0.423	-1.7 *
2,4,5-Trichlorophenol	0.420	0.403	4.0
2-Chloronaphthalene	1.374	1.305	5.0
2-Nitroaniline	0.434	0.356	18.0
Dimethyl Phthalate	1.527	1.496	2.0
Acenaphthylene	1.949	1.974	-1.3
2,6-Dinitrotoluene	0.363	0.378	-4.1
3-Nitroaniline	0.410	0.288	29.8
Acenaphthene *	1.228	1.208	1.6 *
2,4-Dinitrophenol #	0.182	0.204	-12.1 #
4-Nitrophenol #	0.077	0.096	-24.7 #

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Instrument ID: 4021 Calibration date: 04/15/89 Time: 2013

Lab File ID: APR05HK06 Init. Calib. Date(s): 03/20/89 03/20/89

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0

COMPOUND	RRF	RRF50	%D	
Dibenzofuran	1.658	1.816	-9.5	
2,4-Dinitrotoluene	0.452	0.452	0.0	
Diethylphthalate	1.384	1.324	4.3	
4-Chlorophenyl-phenylether	0.547	0.671	-22.7	
Fluorene	1.265	1.363	-7.7	
4-Nitroaniline	0.324	0.215	33.6	
4,6-Dinitro-2-Methylphenol	0.153	0.141	7.8	
N-Nitrosodiphenylamine (1)	0.368	0.410	10.2	*
4-Bromophenyl-phenylether	0.206	0.234	-13.6	
Hexachlorobenzene	0.221	0.240	-8.6	
Pentachlorophenol	0.132	0.118	10.6	*
Phenanthrene	1.038	0.969	6.6	
Anthracene	0.964	1.014	-5.2	
Di-n-Butylphthalate	1.216	1.193	1.9	
Fluoranthene	1.038	1.084	-4.4	*
Pyrene	1.057	1.090	-3.1	
Butylbenzylphthalate	0.840	0.863	-2.7	
3,3'-Dichlorobenzidine	0.386	0.259	32.9	
Benzo(a)Anthracene	1.190	1.390	-16.8	
bis(2-Ethylhexyl)Phthalate	1.219	1.157	5.1	
Chrysene	1.339	1.392	-4.0	
bis(2-Ethylhexyl)Phthalate	1.219	1.157	5.1	
Di-n-Octyl Phthalate	3.011	3.999	-32.8	*
Benzo(b)Fluoranthene	2.043	2.066	-1.1	
Benzo(k)Fluoranthene	1.800	2.104	-16.9	
Benzo(a)Pyrene	1.840	1.857	-0.9	*
Indeno(1,2,3-cd)Pyrene	1.413	0.948	32.9	
Dibenz(a,h)Anthracene	1.401	0.727	48.1	
Benzo(g,h,i)Perylene	1.400	0.664	52.6	
Nitrobenzene-d5	0.341	0.332	2.6	
2-Fluorobiphenyl	1.315	1.298	1.3	
Terphenyl-d14	0.963	1.020	-5.9	
Phenol-d5	1.106	1.148	-3.8	
2-Fluorophenyl	1.119	1.215	-8.6	
2,4,6-Tribromophenol	0.230	0.256	-11.3	

(1) Cannot be separated from Diphenylamine

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Instrument ID: 4021 Calibration date: 04/13/89 Time: 1704

Lab File ID: APR13HK02 Init. Calib. Date(s): 03/20/89 03/20/89

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.

COMPOUND	RRF	RRF50	%D
Phenol *	1.062	1.078	-1.5 *
bis(2-Chloroethyl)Ether	0.915	1.030	-12.6
2-Chlorophenol	0.836	0.894	-6.9
1,3-Dichlorobenzene	0.856	0.885	-3.4
1,4-Dichlorobenzene *	0.875	0.911	-4.1 *
Benzyl Alcohol	0.469	0.585	-24.7
1,2-Dichlorobenzene	0.835	0.856	-2.5
2-Methylphenol	0.676	0.875	-29.4
bis(2-Chloroisopropyl)Ether	1.396	2.004	-43.6
4-Methylphenol	0.649	0.887	-36.7
N-Nitroso-Di-n-Propylamine #	0.555	0.814	-46.7 #
Hexachloroethane	0.292	0.350	-19.9
Nitrobenzene	0.414	0.386	6.8
Isophorone	0.927	0.865	6.7
2-Nitrophenol *	0.257	0.220	14.4 *
2,4-Dimethylphenol	0.350	0.312	10.9
Benzoic Acid	0.106	0.154	-45.3
bis(2-Chloroethoxy)Methane	0.579	0.599	-3.5
2,4-Dichlorophenol *	0.329	0.293	10.9 *
1,2,4-Trichlorobenzene	0.352	0.303	13.9
Naphthalene	1.144	1.054	7.9
4-Chloroaniline	0.390	0.410	-5.1
Hexachlorobutadiene *	0.156	0.142	9.0 *
4-Chloro-3-Methylphenol *	0.339	0.297	12.4 *
2-Methylnaphthalene	0.760	0.727	4.3
Hexachlorocyclopentadiene #	0.178	0.113	36.5 #
2,4,6-Trichlorophenol *	0.416	0.445	-7.0 *
2,4,5-Trichlorophenol	0.420	0.459	-9.3
2-Chloronaphthalene	1.374	1.353	1.5
2-Nitroaniline	0.434	0.486	-12.0
Dimethyl Phthalate	1.527	1.482	2.9
Acenaphthylene	1.949	1.920	1.5
2,6-Dinitrotoluene	0.363	0.328	9.5
3-Nitroaniline	0.410	0.354	13.7
Acenaphthene *	1.228	1.252	-2.0 *
2,4-Dinitrophenol #	0.182	0.134	26.4 #
4-Nitrophenol #	0.077	0.055	28.6 #

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Instrument ID: 4021 Calibration date: 04/13/89 Time: 1704

Lab File ID: APR13HK02 Init. Calib. Date(s): 03/20/89 03/20/89

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.

COMPOUND	RRF	RRF50	%D
Dibenzofuran	1.658	1.802	-8.7
2,4-Dinitrotoluene	0.452	0.446	1.3
Diethylphthalate	1.384	1.367	1.2
4-Chlorophenyl-phenylether	0.547	0.659	-20.5
Fluorene	1.265	1.377	-8.9
4-Nitroaniline	0.324	0.275	15.1
4,6-Dinitro-2-Methylphenol	0.153	0.143	6.5
N-Nitrosodiphenylamine (1) *	0.368	[illegible]	5.6 *
4-Bromophenyl-phenylether	0.206	0.234	-13.6
Hexachlorobenzene	0.221	0.249	-12.7
Pentachlorophenol *	0.132	0.134	-1.5 *
Phenanthrene	1.038	1.013	2.4
Anthracene	0.964	1.014	-5.2
Di-n-Butylphthalate	1.216	1.300	-6.9
Fluoranthene *	1.038	1.015	2.2 *
Pyrene	1.057	1.022	3.3
Butylbenzylphthalate	0.840	0.921	-9.6
3,3'-Dichlorobenzidine	0.386	0.303	21.5
Benzo(a)Anthracene	1.190	1.371	-15.2
bis(2-Ethylhexyl)Phthalate	1.219	[illegible]	[illegible]
Chrysene	1.339	1.445	-7.9
bis(2-Ethylhexyl)Phthalate	1.219	1.335	-9.5
Di-n-Octyl Phthalate *	3.011	4.271	-41.9 *
Benzo(b)Fluoranthene	2.043	2.441	-19.5
Benzo(k)Fluoranthene	1.800	2.076	-15.3
Benzo(a)Pyrene *	1.840	2.196	-19.4 *
Indeno(1,2,3-cd)Pyrene	1.413	1.698	-20.2
Dibenz(a,h)Anthracene	1.401	1.680	-19.9
Benzo(g,h,i)Perylene	1.400	1.570	-12.1
Nitrobenzene-d5	0.341	0.380	-11.4
2-Fluorobiphenyl	1.315	1.298	1.3
Terphenyl-d14	0.963	1.144	-18.8
Phenol-d5	1.106	1.382	-25.0
2-Fluorophenol	1.119	1.276	-14.0
2,4,6-Tribromophenol	0.230	0.288	-16.5

(1) Cannot be separated from Diphenylamine

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Instrument ID: 4021 Calibration date: 04/24/89 Time: 1706

Lab File ID: APR24HK02 Init. Calib. Date(s): 03/20/89 03/20/89

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.

COMPOUND	RRF	RRF50	%D
Phenol *	1.062	1.181	-11.2 *
bis(2-Chloroethyl)Ether	0.915	0.991	-8.3
2-Chlorophenol	0.836	0.914	-9.3
1,3-Dichlorobenzene	0.856	0.906	-5.8
1,4-Dichlorobenzene *	0.875	0.959	-9.6 *
Benzyl Alcohol	0.469	0.528	-12.6
1,2-Dichlorobenzene	0.835	0.860	-3.0
2-Methylphenol	0.676	0.917	-35.7
bis(2-Chloroisopropyl)Ether	1.396	2.215	-58.7
4-Methylphenol	0.649	0.884	-36.2
N-Nitroso-Di-n-Propylamine #	0.555	0.859	-54.8 #
Hexachloroethane	0.292	0.328	-12.3
Nitrobenzene	0.414	0.428	-3.4
Isophorone	0.927	0.889	4.1
2-Nitrophenol *	0.257	0.186	27.6 *
2,4-Dimethylphenol	0.350	0.310	11.4
Benzoic Acid	0.106	0.131	-23.6
bis(2-Chloroethoxy)Methane	0.579	0.583	-0.7
2,4-Dichlorophenol *	0.329	0.260	21.0 *
1,2,4-Trichlorobenzene	0.352	0.275	21.9
Naphthalene	1.144	1.084	5.2
4-Chloroaniline	0.390	0.351	10.0
Hexachlorobutadiene *	0.156	0.128	18.0 *
4-Chloro-3-Methylphenol *	0.339	0.287	15.3 *
2-Methylnaphthalene	0.760	0.706	7.1
Hexachlorocyclopentadiene #	0.178	0.046	74.2 #
2,4,6-Trichlorophenol *	0.416	0.390	6.3 *
2,4,5-Trichlorophenol	0.420	0.412	1.9
2-Chloronaphthalene	1.374	1.349	1.8
2-Nitroaniline	0.434	0.543	-25.1
Dimethyl Phthalate	1.527	1.521	0.4
Acenaphthylene	1.949	1.873	3.9
2,6-Dinitrotoluene	0.363	0.285	21.5
3-Nitroaniline	0.410	0.325	20.7
Acenaphthene *	1.228	1.329	-8.2 *
2,4-Dinitrophenol #	0.182	0.073	59.9 #
4-Nitrophenol #	0.077	0.054	29.9 #

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Instrument ID: 4021 Calibration date: 04/24/89 Time: 1706

Lab File ID: APR24HK02 Init. Calib. Date(s): 03/20/89 03/20/89

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0

COMPOUND	RRF	RRF50	%D
Dibenzofuran	1.658	1.887	-13.8
2,4-Dinitrotoluene	0.452	0.386	14.6
Diethylphthalate	1.384	1.403	-1.4
4-Chlorophenyl-phenylether	0.547	0.669	-22.3
Fluorene	1.265	1.419	-12.2
4-Nitroaniline	0.324	0.242	25.3
4,6-Dinitro-2-Methylphenol	0.153	0.102	33.3
N-Nitrosodiphenylamine (1) *	0.368	0.415	12.0 *
4-Bromophenyl-phenylether	0.206	0.209	-1.5
Hexachlorobenzene	0.221	0.232	-5.0
Pentachlorophenol *	0.132	0.100	24.2 *
Phenanthrene	1.038	1.063	-2.4
Anthracene	0.964	0.999	-3.6
Di-n-Butylphthalate	1.216	1.321	-8.6
Fluoranthene *	1.038	1.014	2.3 *
Pyrene	1.057	1.040	1.6
Butylbenzylphthalate	0.840	0.734	12.6
3,3'-Dichlorobenzidine	0.386	0.288	25.4
Benzo(a)Anthracene	1.190	1.284	-7.9
bis(2-Ethylhexyl)Phthalate	1.219	1.3[illegible]	[illegible]
Chrysene	1.339	1.250	6.6
bis(2-Ethylhexyl)Phthalate	1.219	1.381	-13.3
Di-n-Octyl Phthalate *	3.011	3.472	-15.3 *
Benzo(b)Fluoranthene	2.043	2.955	-44.6
Benzo(k)Fluoranthene	1.800	2.754	-53.0
Benzo(a)Pyrene *	1.840	2.486	-35.1 *
Indeno(1,2,3-cd)Pyrene	1.413	1.939	-37.2
Dibenz(a,h)Anthracene	1.401	1.821	-30.0
Benzo(g,h,i)Perylene	1.400	1.535	-9.6
Nitrobenzene-d5	0.341	0.412	-20.8
2-Fluorobiphenyl	1.315	1.455	-10.7
Terphenyl-d14	0.963	0.908	5.7
Phenol-d5	1.106	1.466	-32.6
2-Fluorophenyl	1.119	1.468	-31.2
2,4,6-Tribromophenol	0.230	0.316	-37.4

(1) Cannot be separated from Diphenylamine

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Instrument ID: 4021 Calibration date: 04/26/89 Time: 1715

Lab File ID: APR26HK02 Init. Calib. Date(s): 03/20/89 03/20/89

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0

COMPOUND	RRF	RRF50	%D
Phenol *	1.062	1.162	-9.4 *
bis(2-Chloroethyl)Ether	0.915	1.076	-17.6
2-Chlorophenol	0.836	0.905	-8.3
1,3-Dichlorobenzene	0.856	0.893	-4.3
1,4-Dichlorobenzene *	0.875	0.936	-7.0 *
Benzyl Alcohol	0.469	0.469	0.0
1,2-Dichlorobenzene	0.835	0.893	-6.9
2-Methylphenol	0.676	0.831	-22.9
bis(2-Chloroisopropyl)Ether	1.396	2.118	-51.7
4-Methylphenol	0.649	0.805	-24.0
N-Nitroso-Di-n-Propylamine #	0.555	0.781	-40.7 #
Hexachloroethane	0.292	0.340	-16.4
Nitrobenzene	0.414	0.479	-15.7
Isophorone	0.927	0.992	-7.0
2-Nitrophenol *	0.257	0.217	15.6 *
2,4-Dimethylphenol	0.350	0.351	-0.3
Benzoic Acid	0.106	0.137	-29.3
bis(2-Chloroethoxy)Methane	0.579	0.667	-15.2
2,4-Dichlorophenol *	0.329	0.305	7.3 *
1,2,4-Trichlorobenzene	0.352	0.328	6.8
Naphthalene	1.144	1.265	-10.6
4-Chloroaniline	0.390	0.439	-12.6
Hexachlorobutadiene *	0.156	0.159	-1.9 *
4-Chloro-3-Methylphenol *	0.339	0.310	8.6 *
2-Methylnaphthalene	0.760	0.794	-4.5
Hexachlorocyclopentadiene #	0.178	0.242	-36.0 #
2,4,6-Trichlorophenol *	0.416	0.409	1.7 *
2,4,5-Trichlorophenol	0.420	0.432	-2.9
2-Chloronaphthalene	1.374	1.502	-9.3
2-Nitroaniline	0.434	0.559	-28.8
Dimethyl Phthalate	1.527	1.597	-4.6
Acenaphthylene	1.949	2.256	-15.8
2,6-Dinitrotoluene	0.363	0.338	6.9
3-Nitroaniline	0.410	0.353	13.9
Acenaphthene *	1.228	1.394	-13.5 *
2,4-Dinitrophenol #	0.192	0.094	48.4 #
4-Nitrophenol #	0.077	0.113	-46.8 #

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Instrument ID: 4021 Calibration date: 04/26/89 Time: 1715

Lab File ID: APR26HK02 Init. Calib. Date(s): 03/20/89 03/20/89

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.

COMPOUND	RRF	RRF50	%D
Dibenzofuran	1.658	2.025	-22.1
2,4-Dinitrotoluene	0.452	0.449	0.7
Diethylphthalate	1.384	1.466	-5.9
4-Chlorophenyl-phenylether	0.547	0.733	-34.0
Fluorene	1.265	1.520	-20.2
4-Nitroaniline	0.324	0.239	26.2
4,6-Dinitro-2-Methylphenol	0.153	0.120	21.6
N-Nitrosodiphenylamine (1) *	0.368	0.350	5.0 *
4-Bromophenyl-phenylether	0.206	0.241	-17.0
Hexachlorobenzene	0.221	0.282	-27.6
Pentachlorophenol *	0.132	0.139	-5.3 *
Phenanthrene	1.038	1.192	-14.8
Anthracene	0.964	1.225	-27.1
Di-n-Butylphthalate	1.216	1.700	-39.8
Fluoranthene *	1.038	1.290	-24.3 *
Pyrene	1.057	1.320	-24.9
Butylbenzylphthalate	0.840	0.753	10.4
3,3'-Dichlorobenzidine	0.386	0.299	22.5
Benzo(a)Anthracene	1.190	1.337	-12.4
bis(2-Ethylhexyl)Phthalate	1.219	[illegible]	[illegible]
Chrysene	1.339	1.265	5.5
bis(2-Ethylhexyl)Phthalate	1.219	1.341	-10.0
Di-n-Octyl Phthalate *	3.011	2.407	20.1 *
Benzo(b)Fluoranthene	2.043	1.167	42.9
Benzo(k)Fluoranthene	1.800	1.129	37.3
Benzo(a)Pyrene *	1.840	1.154	37.3 *
Indeno(1,2,3-cd)Pyrene	1.413	0.853	39.6
Dibenz(a,h)Anthracene	1.401	0.852	39.2
Benzo(g,h,i)Perylene	1.400	0.673	51.9
Nitrobenzene-d5	0.341	0.467	-37.0
2-Fluorobiphenyl	1.315	1.538	-17.0
Terphenyl-d14	0.963	1.061	-10.2
Phenol-d5	1.106	1.359	-22.9
2-Fluorophenyl	1.119	1.430	-27.8
2,4,6-Tribromophenol	0.230	0.351	-52.6

(1) Cannot be separated from Diphenylamine

8B
SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Lab File ID (Standard): APR04HK01 Date Analyzed: 04/14/89

Instrument ID: 4021 Time Analyzed: 1616

		IS1(DCB) AREA #	RT	IS2(NPT) AREA #	RT	IS3(ANT) AREA #	RT
	12 HOUR STD	5160	9.15	10900	12.80	5130	17.69
	UPPER LIMIT	10320		21800		10260	
	LOWER LIMIT	2580		5450		2565	
	EPA SAMPLE NO.						
01	G101	4490	9.04	10700	12.75	5420	17.67
02	G102	4070	9.12	10300	12.77	5210	17.67
03	G103	4780	9.02	11600	12.74	5720	17.67
04	PW_4	4910	9.04	11600	12.72	5860	17.62
05	SBLKW	3320	9.04	8020	12.74	4180	17.67

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

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

8C

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Lab File ID (Standard): APR04HK01 Date Analyzed: 04/14/89

Instrument ID: 4021 Time Analyzed: 1616

		IS4(PHN) AREA #	RT	IS5(CRY) AREA #	RT	IS6(PRY) AREA #	RT
	12 HOUR STD	9540	20.79	5260	27.14	2960	33.99
	UPPER LIMIT	19080		10520		5920	
	LOWER LIMIT	4770		2630		1480	
	EPA SAMPLE NO.						
01	G101	10700	20.75	6920	27.09	3120	33.92
02	G102	9450	20.77	3970	27.21	1750	34.09
03	G103	10900	20.74	7230	27.09	3550	33.91
04	FW_4	11200	20.67	7780	26.91	2970	33.99
05	SBLKW	8350	20.74	5340	27.04	2390	33.89

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

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

8B
SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SFFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Lab File ID (Standard): APR05HK06 Date Analyzed: 04/15/89

Instrument ID: 4021 Time Analyzed: 2013

	IS1(DCB) AREA #	RT	IS2(NPT) AREA #	RT	IS3(ANT) AREA #	RT
12 HOUR STD	4670	9.04	9970	12.75	4890	17.69
UPPER LIMIT	9340		19940		9780	
LOWER LIMIT	2335		4985		2445	
EPA SAMPLE NO.						
01 G101MS	4860	9.09	12300	12.82	5800	17.74
02 G101MSD	5050	9.04	11600	12.74	5770	17.67

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

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

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8C

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Lab File ID (Standard): AFR05HK06 Date Analyzed: 04/15/89

Instrument ID: 4021 Time Analyzed: 2013

	IS4(PHN) AREA #	RT	IS5(CRY) AREA #	RT	IS6(PRY) AREA #	RT
12 HOUR STD	8740	20.80	4950	27.17	2329	34.04
UPPER LIMIT	17480		9900		4658	
LOWER LIMIT	4370		2475		1165	
EPA SAMPLE NO.						
01 G101MS	10800	20.82	7410	27.26	1904	34.04
02 G101MSD	10300	20.77	7090	27.19	1880	34.04

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

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

3B

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Lab File ID (Standard): APR13HK02 Date Analyzed: 04/13/89

Instrument ID: 4021 Time Analyzed: 1704

		IS1(DCB) AREA #	RT	IS2(NPT) AREA #	RT	IS3(ANT) AREA #	RT
	12 HOUR STD	9930	8.67	23500	12.37	10600	17.40
	UPPER LIMIT	19860		47000		21200	
	LOWER LIMIT	4965		11750		5300	
	EPA SAMPLE NO.						
01	SBLKSL	8020	8.64	22200	12.37	10500	17.40
02	X101	7830	8.62	19900	12.37	8460	17.42
03	X102	9780	8.69	26500	12.39	11100	17.42
04	X103	16000	8.37	39800	12.37	16400	17.44
05	X104	7410	8.65	20500	12.39	9350	17.44

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

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

8C

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Lab File ID (Standard): APR13HK02 Date Analyzed: 04/13/89

Instrument ID: 4021 Time Analyzed: 1704

		IS4(PHN) AREA #	RT	IS5(CRY) AREA #	RT	IS6(PRY) AREA #	RT
	12 HOUR STD	18100	20.50	9890	26.71	4930	32.99
	UPPER LIMIT	36200		19780		9860	
	LOWER LIMIT	9050		4945		2465	
	EPA SAMPLE NO.						
01	SBLKSL	18000	20.50	9960	26.66	4610	32.97
02	X101	12700	20.55	2800 *	26.99	4720	32.97
03	X102	18000	20.57	6260	26.97	4610	32.97
04	X103	23300	20.54	5200	26.86	4790	33.97
05	X104	13700	20.62	2310 *	0.00	199 *	32.99

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

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

8B

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Lab File ID (Standard): APR24HK02 Date Analyzed: 04/24/89

Instrument ID: 4021 Time Analyzed: 1706

		IS1(DCB) AREA #	RT	IS2(NPT) AREA #	RT	IS3(ANT) AREA #	RT
	12 HOUR STD	5100	8.37	12700	12.05	5570	17.09
	UPPER LIMIT	10200		25400		11140	
	LOWER LIMIT	2550		6350		2785	
	EPA SAMPLE NO.						
01	X106	4070	8.30	11300	11.99	4690	17.05

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

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

8C

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Lab File ID (Standard): APR24HK02 Date Analyzed: 04/24/89

Instrument ID: 4021 Time Analyzed: 1706

		IS4(PHN) AREA #	RT	IS5(CRY) AREA #	RT	IS6(PRY) AREA #	RT
	12 HOUR STD	9460	20.17	7000	26.31	2640	32.09
	UPPER LIMIT	18920		14000		5280	
	LOWER LIMIT	4730		3500		1320	
	EPA SAMPLE NO.						
01	X106	8270	20.15	3800	26.21	2520	31.96

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

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

8B

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Lab File ID (Standard): APR26HK02 Date Analyzed: 04/26/89

Instrument ID: 4021 Time Analyzed: 1715

		IS1(DCB) AREA #	RT	IS2(NPT) AREA #	RT	IS3(ANT) AREA #	RT
	12 HOUR STD	3860	8.37	7790	12.05	3680	17.09
	UPPER LIMIT	7720		15580		7360	
	LOWER LIMIT	1930		3895		1840	
	EPA SAMPLE NO.						
01	G104	3690	8.35	8570	12.05	4090	17.19
02	SB_RSM	3850	8.64	7780	12.37	3680	17.40
03	X105	3510	8.32	8010	12.04	3960	17.17

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

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

Column used to flag internal standard area values with an asterisk

8C

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ILLINOIS EPA Contract: 1970000000

Lab Code: SPFLD Case No.: NEWLEN SAS No.: _____ SDG No.: D97183

Lab File ID (Standard): APR26HK02 Date Analyzed: 04/26/89

Instrument ID: 4021 Time Analyzed: 1715

		IS4(PHN) AREA #	RT	IS5(CRY) AREA #	RT	IS6(PRY) AREA #	RT
	12 HOUR STD	6190	20.17	5010	26.31	5220	32.09
	UPPER LIMIT	12380		10020		10440	
	LOWER LIMIT	3095		2505		2610	
	EPA SAMPLE NO.						
01	G104	6930	20.27	5600	26.24	5930	32.12
02	SBLKEM	6200	20.50	5010	26.66	5220	32.97
03	X105	6400	20.24	5080	26.24	4670	32.14

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

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

2E
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: SPRINGFIELD IEPA Contract: NEW LENOX

L Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

	EPA SAMPLE NO.	S1 (DBC) #	OTHER
01	D971830	57%	
02	D971834	62%	
03	D971835	62%	
04	D971838	70%	
05	D971852 MS	24%	
06	D971852 MSD	23%	*
07	D971853 BL	67%	
08			
09			
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ADVISORY QC LIMITS (24-154)

S1 (DBC) = Dibutylchlorendate

Column used to flag recovery values

* Values outside of QC limits

D Surrogates diluted out

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2F

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: SPRINGFIELD IEPA Contract: NEW LENOX

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (DBC) #	OTHER
01	D971831	0%	D
02	D971832	158%	*
03	D971833	131%	
04	D971836	100%	
05	D971837	158%	*
06	D971904 MS	64%	
07	D971904 MSD	75%	
08	D971905 BL	86%	
09			
10			
11			
12			
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30			

ADVISORY QC LIMITS (20-150)

S1 (DBC) = Dibutylchlorendate

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogates diluted out

3E

WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPRINGFIELD IEPA Contract: NEW LENOX

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - EPA Sample No.: PW #4

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Lindane (γ-BHC)	.2	0	.049	25%*	56-123
Heptachlor	.2	0	.051	26%*	40-131
Aldrin	.2	0	.052	26%*	40-120
Dieldrin	.5	0	.123	25%*	52-126
Endrin	.5	0	.129	26%*	56-121
4,4' DDT	.5	0	.115	23%*	38-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Lindane (γ BHC)	.2	.049	25%*	0%	15	56-123
Heptachlor	.2	.051	26%*	0%	20	40-131
Aldrin	.2	.051	26%*	0%	22	40-120
Dieldrin	.5	.123	25%*	0%	18	52-126
Endrin	.5	.126	25%*	3.2%	21	56-121
4,4' DDT	.5	.112	22%*	4.4%	27	38-127

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

* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 12 out of 12 outside limits

COMMENTS: there is probably 1) a 2nd dilution made on the spike material or 2) the wrong amount was spiked, because the recoveries are very low and very close

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPRINGFIELD IEPA Contract: NEW LENOX

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - EPA Sample No.: X102 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Lindane (γ BHC)	26.7	0	19	71%	46-127
Heptachlor	26.7	0	18	67%	35-130
Aldrin	26.7	0	17	64%	34-132
Dieldrin	66.7	0	43	64%	31-134
Endrin	66.7	0	48	72%	42-139
4,4' DDT	66.7	19	47	42%	23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Lindane (γ BHC)	26.7	20	75%	5.5%	50	46-127
Heptachlor	26.7	20	75%	11%	31	35-130
Aldrin	26.7	18	67%	4.6%	43	34-132
Dieldrin	66.7	47	70%	8.9%	38	31-134
Endrin	66.7	49.7	74%	2.7%	45	42-139
4,4' DDT	66.7	52.7	51%	19%	50	23-134

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

* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

COMMENTS: _____

4C

PESTICIDE METHOD BLANK SUMMARY

Lab Name: SPRINGFIELD IEPA Contract: NEW LENOX

L Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Lab Sample ID: D971853 Lab File ID: _____

Matrix: (soil/water) WATER Level: (low/med) LOW

Date Extracted: 3/31/89 Extraction: (SepF/Cont/Sonc) SepF

Date Analyzed (1): 4/24/89 Date Analyzed (2): 5/5/89

Time Analyzed (1): 10:19 PM Time Analyzed (2): ~2 AM

Instrument ID (1): V6A Instrument ID (2): V9B

GC Column ID (1): DB-608 GC Column ID (2): DB-5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	D971830	D971830	4/24/89	5/2/89
02	D971834	D971834	4/24/89	5/3/89
03	D971835	D971835	4/24/89	5/3/89
04	D971838	D971838	4/24/89	5/3/89
05	D971852 MS	D971852 MS	4/24/89	–
06	D971852 MSD	D971852 MSD	4/24/89	–
07				
08				
09				
10				
11				
12				
13				
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25				
26				

COMMENTS: _____

4C

PESTICIDE METHOD BLANK SUMMARY

Lab Name: SPRINGFIELD IEPA Contract: NEW LENOX

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Lab Sample ID: D971905 Lab File ID: _____

Matrix: (soil/water) SOIL Level: (low/med) LOW

Date Extracted: 4/4/89 Extraction: (SepF/Cont/Sonc) Sonc

Date Analyzed (1): — Date Analyzed (2): 5/4/89

Time Analyzed (1): — Time Analyzed (2): ~5 PM

Instrument ID (1): — Instrument ID (2): V9B

GC Column ID (1): — GC Column ID (2): DB-5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	D971831	D971831	4/25/89	5/2/89
02	D971832	D971832	4/25/89	5/2/89
03	D971833	D971833	4/25/89	5/3/89
04	D971836	D971836	4/25/89	5/3/89
05	D971837	D971837	4/25/89	5/3/89
06	D971904 MS	D971904 MS	4/25/89	—
07	D971904 MSD	D971904 MSD	4/25/89	—
08				
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25				
26				

COMMENTS: _____

8D
PESTICIDE EVALUATION STANDARDS SUMMARY

Lab Name: SPRING FIELD IEPA Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Instrument ID: V'eA GC Column ID: DB-608

Dates of Analyses: 4/24/89 to 4/25/89

Evaluation Check for Linearity

PESTICIDE	CALIBRATION FACTOR EVAL MIX A	CALIBRATION FACTOR EVAL MIX B	CALIBRATION FACTOR EVAL MIX C	%RSD (</= 10.0%)	
Aldrin	2917	3200	3320	7.1%	
Endrin	1057	1187	1213	5.7%	
4,4'-DDT	612	666	687	5.9%	(1)
DBC	423	447	437	2.8%	

(1) If > 10.0% RSD, plot a standard curve and determine the ng for each sample in that set from the curve.

Evaluation Check for 4,4'-DDT/Endrin Breakdown
(percent breakdown expressed as total degradation)

		DATE ANALYZED	TIME ANALYZED	ENDRIN	4,4'-DDT	COMBINED (2)
	INITIAL					
01	EVAL MIX B	4/24/89	11:44 pm	1.1%	1.9%	—
02	EVAL MIX B	4/24/89	11:01 pm	1.1%	1.9%	—
03	EVAL MIX B	4/25/89	7:32 AM	1.4%	2.4%	—
04	EVAL MIX B					
05	EVAL MIX B					
06	EVAL MIX B					
07	EVAL MIX B					
08	EVAL MIX B					
09	EVAL MIX B					
10	EVAL MIX B					
11	EVAL MIX B					
12	EVAL MIX B					
13	EVAL MIX B					
14	EVAL MIX B					

(2) See Form instructions.

8D
PESTICIDE EVALUATION STANDARDS SUMMARY

Lab Name: SPRINGFIELD IEPA Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Instrument ID: V6A GC Column ID: DB-608

Dates of Analyses: 4/26/89 to 4/26/89

Evaluation Check for Linearity

PESTICIDE	CALIBRATION FACTOR EVAL MIX A	CALIBRATION FACTOR EVAL MIX B	CALIBRATION FACTOR EVAL MIX C	%RSD (</= 10.0%)	
Aldrin	2967	3167	3200	4.1	
Endrin	1100	1193	1227	5.6	
4,4'-DDT	593	643	647	4.8	(1)
DBC	415	437	440	3.2	

(1) If > 10.0% RSD, plot a standard curve and determine the ng for each sample in that set from the curve.

Evaluation Check for 4,4'-DDT/Endrin Breakdown
(percent breakdown expressed as total degradation)

		DATE ANALYZED	TIME ANALYZED	ENDRIN	4,4'-DDT	COMBINED (2)
01	INITIAL EVAL MIX B	4/26/89	18:26	3.01	2.10	
02	EVAL MIX B					
03	EVAL MIX B					
04	EVAL MIX B					
05	EVAL MIX B					
06	EVAL MIX B					
07	EVAL MIX B					
08	EVAL MIX B					
09	EVAL MIX B					
10	EVAL MIX B					
11	EVAL MIX B					
12	EVAL MIX B					
13	EVAL MIX B					
14	EVAL MIX B					

(2) See Form instructions.

8D
PESTICIDE EVALUATION STANDARDS SUMMARY

Lab Name: SPRINGFIELD IEPA Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Instrument ID: V9B GC Column ID: DB-5

Dates of Analyses: 5/2/89 to 5/4/89

Evaluation Check for Linearity

PESTICIDE	CALIBRATION FACTOR EVAL MIX A	CALIBRATION FACTOR EVAL MIX B	CALIBRATION FACTOR EVAL MIX C	%RSD (</= 10.0%)	
Aldrin	1501,733	1,712,433	1,769,267	8.5%	
Endrin	691,453	733,880	730,160	3.2%	
4,4'-DDT	393,636	430,987	431,907	5.2%	(1)
DBC	233,550	251,500	249,480	4%	

(1) If > 10.0% RSD, plot a standard curve and determine the ng for each sample in that set from the curve.

Evaluation Check for 4,4'-DDT/Endrin Breakdown
(percent breakdown expressed as total degradation)

		DATE ANALYZED	TIME ANALYZED	ENDRIN	4,4'-DDT	COMBINED (2)
	INITIAL					
01	EVAL MIX B	5/2/89	3:00 PM	1.8%	1.5%	
02	EVAL MIX B	5/3/89	2:11 AM	1.8%	1.5%	
03	EVAL MIX B	5/3/89	~2PM	1.8%	1.5%	
04	EVAL MIX B					
05	EVAL MIX B					
06	EVAL MIX B					
07	EVAL MIX B					
08	EVAL MIX B					
09	EVAL MIX B					
10	EVAL MIX B					
11	EVAL MIX B					
12	EVAL MIX B					
13	EVAL MIX B					
14	EVAL MIX B					

(2) See Form instructions.

8E

PESTICIDE EVALUATION STANDARDS SUMMARY

Evaluation of Retention Time Shift for Dibutylchlorendate

Lab Name: SPRINGFIELD IEPA Contract: _____

Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Instrument ID: V6A GC Column ID: DB-608 megabore

Dates of Analyses: 4/24/89 to 4/25/89

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	% D	*
01	EVALA	EVALA	4/24/89	11:01		
02	EVALB	EVALB	4/24/89	11:44	.1%	
03	EVALC	EVALC	4/24/89	12:26	.3%	
04	INDA	INDA	4/24/89	13:08	.4%	
05	INDB	INDB	4/24/89	13:51	.5%	
06	TOXAPH	TOXAPH	4/24/89	14:33	.4%	
07	AR1660	AR1660	4/24/89	15:15	.7%	
08	AR1221	AR1221	4/24/89	15:58	.8%	
09	AR1232	AR1232	4/24/89	16:60	.8%	
10	AR1242	AR1242	4/24/89	17:22	.9%	
11	AR1248	AR1248	4/24/89	18:05	.8%	
12	AR1254	AR1254	4/24/89	18:47	.9%	
13	D971830	D971830	4/24/89	19:29	.8%	
14	D971834	D971834	4/24/89	20:12	.9%	
15	D971835	D971835	4/24/89	20:54	.8%	
16	D971836	D971836	4/24/89	21:36	.7%	
17	D971853BL	D971853BL	4/24/89	22:19	.9%	
18	EVALB	EVALB	4/24/89	23:01	.9%	
19	D971852MS	D971852MS	4/24/89	23:43	.6%	
20	D971852MSD	D971852MSD	4/25/89	00:26	.3%	
21	D971839	D971839	4/25/89	1:08	—	
22	D971840	D971840	4/25/89	1:49	—	
23	22222	22222	4/25/89	2:35	.1%	
24	INDA	INDA	4/25/89	3:18	.3%	
25	D971832	D971832	4/25/89	4:00	.3%	
26	D971832	D971832	4/25/89	4:42	—	
27	D971833	D971833	4/25/89	5:25	.1%	
28	D971833	D971833	4/25/89	6:07	—	
29	D971837	D971837	4/25/89	6:49	.2%	
30	EVALB	EVALB	4/25/89	7:32	.4%	
31	D971831	D971831	4/25/89	8:26	—	
32	D971836	D971836	4/25/89	8:48	1.3%	
33	D971836	D971836	4/25/89	9:32	—	
34	22222MS	22222MS	4/25/89	10:14	1.0%	
35	22222MSD	22222MSD	4/25/89	10:56	—	
36	INDB	INDB	4/25/89	11:39	1.2%	
37	D971821MS	D971821MS	4/25/89	12:59	1.3%	
38	D971821MSD	D971821MSD	4/25/89	13:41	1.3%	

* Values outside of QC limits (2.0% for packed columns, 0.3% for capillary columns)

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8E

PESTICIDE EVALUATION STANDARDS SUMMARY

Evaluation of Retention Time Shift for Dibutylchlorendate

Lab Name: SPRINGFIELD IEPA Contract: _____

Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Instrument ID: V6A GC Column ID: _____

Dates of Analyses: 4/24/89 to 4/25/89

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	% D	*
01	22222 BL	22222 BL	4/25/89	14:24	2.28	*
02	INDA	INDA	4/25/89			*
03	INDB	INDB	4/25/89			*
04						
05	NEW	SEQUENCE	STARTED			
06		because	of problems			
07						
08						
09						
10						
11						
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31						
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38						

* Values outside of QC limits (2.0% for packed columns, 0.3% for capillary columns)

FORM VIII PEST-2 1/87 Rev.

8E

PESTICIDE EVALUATION STANDARDS SUMMARY

Evaluation of Retention Time Shift for Dibutylchlorendate

Lab Name: SPRINGFIELD IEPA Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Instrument ID: V6A GC Column ID: DB-608 megabore

Dates of Analyses: 4/26/89 to 4/27/89

NEW SEQUENCE To correct probl.

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	% D	*
01	EVAL A	EVAL A	4/26/89	17:45	—	
02	EVAL B	EVAL B	4/26/89	18:26	.05	
03	EVAL C	EVAL C	4/26/89	19:08	.09	
04	INDA	INDA	4/26/89	19:49	.08	
05	INDB	INDB	4/26/89	20:30	.06	
06	TOXAPH	TOXAPH	4/26/89	21:11	.02	
07	AR1660	AR1660	4/26/89	21:53	.33	
08	AR1242	AR1242	4/26/89	22:34	.51	
09	AR1248	AR1248	4/26/89	23:15	.52	
10	AR1254	AR1254	4/26/89	23:57	.93	
11	D97184MS	D97184MS	4/26/89	0:38	1.21	
12	D97184MSD	D97184MSD	4/26/89	1:19	1.525	
13	D97224 BL	D97224 BL	4/26/89	2:01	1.28	
14	D97237	D97237	4/26/89	2:42	2.01	*
15	INDA	INDA	4/26/89	3:23	1.35	
16	INDB	INDB	4/26/89	4:05	1.533	*
17	INDA	INDA	4/26/89	12:44	.27	
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* Values outside of QC limits (2.0% for packed columns, 0.3% for capillary columns)