B07GM7-DAT-205

START 9613404.0798

0043184

DATA CHEM LABORATORIES

ENVIRONMENTAL SOIL REPORT

Form EPRS-A
Page 1 of 2
Part 1 of 1

Date _____
Agency Identification Number SF-1350-EK
Account No. 3534C

Westinghouse Hanford Company
2355 Stevens Drive
MSIN T6-08
Richland, WA 99352
Attention: Jeanette Duncan

DEC 1992 RECEIVED OSM DMO

Telephone (509) 373-3225

Sampling Collection and Shipment

Sampling Site _____ Date of Collection October 20, 1992

Date Samples Received at Laboratory October 29, 1992

Analytical Results

Parameter Name / Analysis Date / Method / Prep Method	Units	Field Number / Lab Number	B07GM7 CLP 11501	B07GM3 CLP 11502	B07GM8 CLP 11503	B07GM6 CLP 11504	B07GM9 CLP 11505			* Limit of Detection
Fluoride (F) 11/04/1992 300.0 [1]	µg/g		3.	3.	3.	3.	ND*			2.
Chloride (Cl) 11/04/1992 300.0 [1]	µg/g		27.	2.	28.	73.	ND*			2.
Sulfate (SO_4) 11/04/1992 300.0 [1]	µg/g		880	13.	770	170	ND*			2.
Phosphate (PO_4-P) 11/04/1992 300.0 [1]	µg/g		ND*	ND*	ND*	ND*	ND*			0.7
Nitrates (NO_3-N + NO_2-N) 11/14/1992 353.2 [1]	µg/g		4.	2.	4.	3.	ND*			1.
Chromium VI 11/12/1992 7196 [2] 3060M [2]	µg/g		ND*	ND*	ND*	ND*	ND*			1.

† See comment on last page.
ND Parameter not detected.
NR Parameter not requested.
¹ Analyses completed on or before this date.

** Parameter not analyzed (See comment page).
( ) Parameter between LOD and LOQ.
[ ] Method Reference (See comments page.)

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Cynthia Adams
Analyst: Cynthia Adams

Reviewer: Michael E. Richmond

Norman R. Christensen for MPB
Laboratory Supervisor: Michael P. Beesley

960 West LeVoy Drive / Salt Lake City, Utah 84123-2547 / (801) 266-7700
A Sorenson Company

8

9613404.0799

DATA CHEM LABORATORIES

ANALYTICAL REPORT

Date _____
Agency Identification Number SF-1350-HK
Account No. 3534C

Westinghouse Hanford Company
2355 Stevens Drive
MSIN T6-08
Richland, WA 99352
Attention: Jeanette Duncan

DEC 1992 RECEIVED OSM DMO

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Sampling Collection and Shipment

Sampling Site _____ Date of Collection October 20, 1992

Date Samples Received at Laboratory October 29, 1992

Analysis

Method of Analysis EPA 8150

Date(s) of Analysis November 22, 1992

Analytical Results

Field Sample Number	Laboratory Number	Sample Type	2,4-D ug/kg	2,4-DB ug/kg	2,4,5-T ug/kg	2,4,5-TP (Silvex) ug/kg	Dalapon ug/kg	Dicamba ug/kg	Dichloroprop ug/kg	Dinoseb ug/kg
BL-90683-1	BL-90683-1	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
QC-90683-1	QC-90683-1	SOIL	83	ND*	46	46	ND*	ND*	ND*	ND*
B07GM7	CLP 11501	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07GN3	CLP 11502	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07GM8	CLP 11503	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07GM8MS	CLP 11503MS	SOIL	78	ND*	44	44	ND*	ND*	ND*	ND*
B07GM8MSD	CLP 11503MSD	SOIL	82	ND*	46	45	ND*	ND*	ND*	ND*
B07GN6	CLP 11504	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07GN9	CLP 11505	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
* Limit of Detection			20	100	10	10	100	10	20	20

† See comment on last page.
ND Parameter not detected.
NR Parameter not requested.

** See comment on last page.
( ) Parameter between LOD and LOQ.

RECORD COPY

Analyst: Guangyue Liu

Reviewer: John Meikle

Laboratory Supervisor: Jose C. Danino

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9613404.0800

DATA CHEM LABORATORIES

ANALYTICAL REPORT

Date _____
Agency Identification Number SF-1350-HK
Account No. 3534C

Westinghouse Hanford Company
2355 Stevens Drive
MSIN T6-08
Richland, WA 99352
Attention: Jeanette Duncan

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Sampling Collection and Shipment

Sampling Site _____ Date of Collection October 20, 1992

Date Samples Received at Laboratory October 29, 1992

Analysis

Method of Analysis EPA 8150

Date(s) of Analysis November 22, 1992

Analytical Results

Field Sample Number	Laboratory Number	Sample Type	MCPA ug/kg	MCPP ug/kg	DCAA ug/kg					
BL-90683-1	BL-90683-1	SOIL	ND*	ND*	61					
QC-90683-1	QC-90683-1	SOIL	ND*	ND*	55					
B07GM7	CLP 11501	SOIL	ND*	ND*	50					
B07GN3	CLP 11502	SOIL	ND*	ND*	60					
B07GM8	CLP 11503	SOIL	ND*	ND*	56					
B07GM8MS	CLP 11503MS	SOIL	ND*	ND*	54					
B07GM8MSD	CLP 11503MSD	SOIL	ND*	ND*	56					
B07GN6	CLP 11504	SOIL	ND*	ND*	49					
B07GN9	CLP 11505	SOIL	ND*	ND*	49					
* Limit of Detection			5000	5000	SURR.					

† See comment on last page.
ND Parameter not detected.
NR Parameter not requested.
** See comment on last page.
( ) Parameter between LOD and LOQ.

9613404.0801

DATA CHEM LABORATORIES

ANALYTICAL REPORT

Date _____

Agency Identification Number SF-1350-HK

General Set Comments

The samples were spiked with the surrogate, 2,4-dichlorophenylacetic acid (DCAA), at 50 µg/kg.

The matrix spike, matrix spike duplicate, and Laboratory Control Samples were spiked with 2,4-D at 100 µg/kg, 2,4,5-TP at 50 µg/kg, and 2,4,5-T at 50 ug/kg.

9613404.0802

DATA CHEM LABORATORIES

ANALYTICAL REPORT

Form ARF-AL
Page 1 of 5
Part 1 of 4

Date _____
Agency Identification Number SF-1350-IK
Account No. 3534C

Westinghouse Hanford Company
2355 Stevens Drive
MSIN T6-08
Richland, WA 99352
Attention: Jeanette Duncan

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FAX (509) 373-3992
Telephone (509) 373-3225

Sampling Collection and Shipment

Sampling Site _____ Date of Collection October 20, 1992

Date Samples Received at Laboratory October 29, 1992

Analysis

Method of Analysis EPA 8141

Date(s) of Analysis November 09, 1992

Analytical Results

Field Sample Number	Laboratory Number	Sample Type	Azinphos Methyl ug/kg GC/FPD	Bolstar ug/kg GC/FPD	Chlorpyrifos ug/kg GC/FPD	Coumaphos ug/kg GC/FPD	Demeton-S ug/kg GC/FPD	Diazinon ug/kg GC/FPD	Dichlorvos ug/kg GC/FPD	Disulfoton ug/kg GC/FPD
BL-90684-1	BL-90684-1	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07GM7	CLP 11501	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07GN3	CLP 11502	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07GM8	CLP 11503	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07GN6	CLP 11504	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07GN6MS	CLP 11504MS	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	62
B07GN6MSD	CLP 11504MSD	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	66
B07GN9	CLP 11505	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
QC-90684-1	QC-90684-1	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	72
* Limit of Detection				6.7	6.7	6.7	6.7	6.7	6.7	6.7

† See comment on last page.
ND Parameter not detected.
NR Parameter not requested.

** See comment on last page.
( ) Parameter between LOD and LOQ.

RECORD COPY

Vicki Hoe Lin Tsai
Analyst: Vicki Hoe-Lin Tsai

Reviewer: _____

Laboratory Supervisor: Jose C. Danino

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9613404.0803

DATA CHEM LABORATORIES

ANALYTICAL REPORT

Date _____
Agency Identification Number SF-1350-IK
Account No. 3534C

Westinghouse Hanford Company
2355 Stevens Drive
MSIN T6-08
Richland, WA 99352
Attention: Jeanette Duncan

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Telephone (509) 373-3225

Sampling Collection and Shipment

Sampling Site _____ Date of Collection October 20, 1992

Date Samples Received at Laboratory October 29, 1992

Analysis

Method of Analysis EPA 8141

Date(s) of Analysis November 09, 1992

Analytical Results

Field Sample Number	Laboratory Number	Sample Type	Ethoprop ug/kg GC/FPD	Fensulfothion ug/kg GC/FPD	Fenthion ug/kg GC/FPD	Merphos ug/kg GC/FPD	Mevinphos ug/kg GC/FPD	Naled ug/kg GC/FPD	Parathion methyl ug/kg GC/FPD	Phorate ug/kg GC/FPD
BL-90684-1	BL-90684-1	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07GM7	CLP 11501	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07GN3	CLP 11502	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07GM8	CLP 11503	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07GN6	CLP 11504	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07GN6MS	CLP 11504MS	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	63	74
B07GN6MSD	CLP 11504MSD	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	69	72
B07GN9	CLP 11505	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
QC-90684-1	QC-90684-1	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	74	79
* Limit of Detection			6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7

† See comment on last page.
ND Parameter not detected.
NR Parameter not requested.
** See comment on last page.
( ) Parameter between LOD and LOQ.

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9613404.0804

DATA CHEM LABORATORIES

ANALYTICAL REPORT

Date _____
Agency Identification Number SF-1350-IK
Account No. 3534C

Westinghouse Hanford Company
2355 Stevens Drive
MSIN T6-08
Richland, WA 99352
Attention: Jeanette Duncan

FAX (509) 373-3992
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Sampling Collection and Shipment

Sampling Site _____ Date of Collection October 20, 1992

Date Samples Received at Laboratory October 29, 1992

Analysis

Method of Analysis EPA 8141

Date(s) of Analysis November 09, 1992

Analytical Results

Field Sample Number	Laboratory Number	Sample Type	Ronnel ug/kg GC/FPD	Stirophos ug/kg GC/FPD	Dimethoate ug/kg GC/FPD	EPN ug/kg GC/FPD	Malathion ug/kg GC/FPD	Monocrotophos ug/kg GC/FPD	Parathion ug/kg GC/FPD	SULFOTEP ug/kg GC/FPD
BL-90684-1	BL-90684-1	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07GM7	CLP 11501	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07GN3	CLP 11502	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07GM8	CLP 11503	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07GN6	CLP 11504	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07GN6MS	CLP 11504MS	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07GN6MSD	CLP 11504MSD	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07GN9	CLP 11505	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
QC-90684-1	QC-90684-1	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
* Limit of Detection			6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7

† See comment on last page.
ND Parameter not detected.
NR Parameter not requested.

** See comment on last page.
( ) Parameter between LOD and LOQ.

9613404.0805

DATA CHEM LABORATORIES

ANALYTICAL REPORT

Date _____
Agency Identification Number SF-1350-IK
Account No. 3534C

Westinghouse Hanford Company
2355 Stevens Drive
MSIN T6-08
Richland, WA 99352
Attention: Jeanette Duncan

FAX (509) 373-3992
Telephone (509) 373-3225

Sampling Collection and Shipment

Sampling Site _____ Date of Collection October 20, 1992

Date Samples Received at Laboratory October 29, 1992

Analysis

Method of Analysis EPA 8141

Date(s) of Analysis November 09, 1992

Analytical Results

Field Sample Number	Laboratory Number	Sample Type	TEPP ug/kg GC/FPD	TPP ug/kg						
BL-90684-1	BL-90684-1	SOIL	ND*	258						
B07GM7	CLP 11501	SOIL	ND*	139						
B07GN3	CLP 11502	SOIL	ND*	112						
B07GM8	CLP 11503	SOIL	ND*	166						
B07GN6	CLP 11504	SOIL	ND*	236						
B07GN6MS	CLP 11504MS	SOIL	ND*	161						
B07GN6MSD	CLP 11504MSD	SOIL	ND*	241						
B07GN9	CLP 11505	SOIL	ND*	347						
QC-90684-1	QC-90684-1	SOIL	ND*	272						
* Limit of Detection			6.7	6.7						

† See comment on last page.
ND Parameter not detected.
NR Parameter not requested.
** See comment on last page.
( ) Parameter between LOD and LOQ.

4

9613404.0806

DATA CHEM LABORATORIES

ANALYTICAL REPORT

Date _____

Agency Identification Number SF-1350-IK

General Set Comments

Method blank,LCS,method spike and method spike duplicate (using CLP11504) were performed with the samples. Phorate,disulfoton and parathion methyl were spiked at 60 ug/kg. Surrogate(TPP) was spiked at 300 ug/kg in all samples.

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9613404.0807

DATA CHEM LABORATORIES

ENVIRONMENTAL SOIL REPORT

Form EPRS-A
Page 1 of 2
Part 1 of 1

Date _____
Agency Identification Number SF-1350-FK
Account No. 3534C

Westinghouse Hanford Company
2355 Stevens Drive
MSIN T6-08
Richland, WA 99352
Attention: Jeanette Duncan

DEC 1992 RECEIVED OSM DMO

Telephone (509) 373-3225

Sampling Collection and Shipment

Sampling Site _____ Date of Collection October 20, 1992

Date Samples Received at Laboratory October 29, 1992

Analytical Results

Parameter Name / Analysis Date / Units / Method / Prep Method	Field Number / Lab Number	B07GM7 CLP 11501	B07GN3 CLP 11502	B07GM8 CLP 11503	B07GN6 CLP 11504	B07GN9 CLP 11505			* Limit of Detection
Total Petroleum Hydrocarbons 11/16/1992 µg/g 418.1 [1] 3550 [2]		ND*	ND*	50	ND*	ND*			10

† See comment on last page.
ND Parameter not detected.
NR Parameter not requested.
1 Analyses completed on or before this date.

** Parameter not analyzed (See comment page).
( ) Parameter between LOD and LOQ.
[ ] Method Reference (See comments page.)

RECORD COPY

Analyst: David W. Thomas

Reviewer: Rosemary H. Hanks

Laboratory Supervisor: Norman K. Christensen

960 West LeVoy Drive / Salt Lake City, Utah 84123-2547 / (801) 266-7700
A Sorenson Company

24

DATA CHEM LABORATORIES

ENVIRONMENTAL SOIL REPORT

Date _____

Agency Identification Number SF-1350-FK

Method Index **-- Method Reference --**

[1] EPA-600/4-79-020 "Methods for Chemical Analysis of Water and Wastes", March 1983 (Modified for use with soils.)

[2] SW-846 "Test Methods for Evaluating Solid Waste", 3rd Edition, November 1986.

9613404.0809

DATA CHEM LABORATORIES

A SORENSON COMPANY

SDG NARRATIVE
VOA FRACTION

CASE NO.: WHC38
SDG NO.: WHC038
SAMPLE NO(s). for VOA analysis: B07GM7, B07GN3, B07GN3RE, B07GM8, B07GN6, B07GN9, B07GM7MS, B07GM7MSD

WESTINGHOUSE-HANFORD CONTRACT
DATACHEM LABS.

I. 1. CASE WHC38 DataChem Laboratories received five soil samples for VOA analysis which have been assigned the SDG designation WHC038. This report includes the data for the five samples received for this SDG.

I. 2. VOA Analysis The soil samples were analyzed as soil samples according to EPA SOW 3/91.

2.1 The surrogate recovery for 1,2-dichloroethane-d4 and bromofluorobenzene did not meet EPA acceptance criteria for samples B07GM7 and B07GN3. The matrix spike and matrix spike duplicate were performed using sample B07GM7, these analyses serve as reanalyses. Sample B07GN3 was reanalyzed and is designated with an "RE". All other system monitoring compound and internal standard recoveries were within the required QC limits. All samples were analyzed within hold time limits.

I. 3. Matrix Spike and Matrix Spike Duplicate Analyses The matrix spike and matrix spike duplicate analyses for the soil samples were performed using sample B07GM7. All matrix spike parameters were within QC limits.

SDG Narrative authorized by: Richard Wade

Date: November 20, 1992

SALT LAKE CITY OFFICE
960 WEST LeVOY DRIVE
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801 266-7700, FAX 801 268-9992

CINCINNATI OFFICE
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BALTIMORE, MARYLAND 21236-1220
410 494-3612 FAX 513 733-5347

RICHLAND OFFICE
313 WELLSIAN WAY
RICHLAND, WASHINGTON 99352-4116
509 943-5858 FAX 509 943-5654

LEADING ANALYTICAL CHEMISTRY INTO THE 21ST CENTURY℠

9613404.0810

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B07GM7

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11501

Sample wt/vol: 5.0 (g/mL) G Lab File ID: PB69CLP501

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: not dec. 11 Date Analyzed: 11/04/92

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

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

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

9613404.0811

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B07GM7

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11501

Sample wt/vol: 5.0 (g/mL) G Lab File ID: PB69CLP501

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: not dec. 11 Date Analyzed: 11/04/92

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613404.0812

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B07GM8

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11503

Sample wt/vol: 5.0 (g/mL) G Lab File ID: PB71CLP503

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: not dec. 14 Date Analyzed: 11/04/92

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

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

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

9613404.0813

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B07GM8

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11503

Sample wt/vol: 5.0 (g/mL) G Lab File ID: PB71CLP503

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: not dec. 14 Date Analyzed: 11/04/92

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613404.0814

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B07GN3

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11502

Sample wt/vol: 5.0 (g/mL) G Lab File ID: PB70CLP502

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: not dec. 9 Date Analyzed: 11/04/92

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11	U
67-64-1	Acetone	32	B
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

31

9613404.0815

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B07GN3

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11502

Sample wt/vol: 5.0 (g/mL) G Lab File ID: PB70CLP502

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: not dec. 9 Date Analyzed: 11/04/92

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613404.0816

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B07GN3RE

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11502RE

Sample wt/vol: 5.0 (g/mL) G Lab File ID: PB74CLP502

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: not dec. 9 Date Analyzed: 11/04/92

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	0.9	J
67-64-1	Acetone	30	B
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

9613404.0817

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B07GN3RE

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11502RE

Sample wt/vol: 5.0 (g/mL) G Lab File ID: FB74CLP502

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: not dec. 9 Date Analyzed: 11/04/92

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613404.0818

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B07GN6

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11504

Sample wt/vol: 5.0 (g/mL) G Lab File ID: PB72CLP504

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: not dec. 5 Date Analyzed: 11/04/92

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11	U
67-64-1	Acetone	24	B
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

9613404.0819

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B07GN6

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11504

Sample wt/vol: 5.0 (g/mL) G Lab File ID: PB72CLP504

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: not dec. 5 Date Analyzed: 11/04/92

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9613404.0820

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B07GN9

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11505

Sample wt/vol: 5.0 (g/mL) G Lab File ID: PB76CLP505

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: not dec. 0 Date Analyzed: 11/04/92

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	21	B
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	3	J
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

9613404.0821

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B07GN9

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11505

Sample wt/vol: 5.0 (g/mL) G Lab File ID: PB76CLP505

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: not dec. 0 Date Analyzed: 11/04/92

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

CASE NARRATIVE
SEMIVOLATILE FRACTION

CASE NO. WHC38
SDG NO. WHCS38
SAMPLE NO.(s) for semivolatile analysis: B07GM7, B07GM8, B07GM8MS, B07GM8MSD, B07GN3, B07GN6, B07GN9.

WESTINGHOUSE HANFORD CORP. PURCHASE ORDER NO. MBH-SVV-060648
DATACHEM LABORATORIES

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

John R. Gumpper, Section Manager date 12-30-92

I. 1. Case WHC38: DataChem Laboratories has received a total of five soil samples for Case WHC38. This report includes data for the samples listed above which have been assigned the SDG designation WHCO38. DataChem Laboratories expects to be paid for all analyses listed above.

I. 2. Semivolatile Analysis: All samples in this SDG were analyzed and reported for the BNA fraction using the water protocol specified in the SOW 2/88. All of the surrogate recoveries and internal standard area responses met the required QC criteria, and all samples were extracted and analyzed within the contract-required holding times. No dilutions or special procedures were required for these analyses. Samples were analyzed on two different instruments in the laboratory. The method blank was analyzed on both instruments as required by the contract; only on of these analyses is reported.

I. 3. <u>Matrix Spike and Matrix Spike Duplicate Analyses</u>
The soil matrix spike and matrix spike duplicate analyses for the BNA fraction were performed using sample B07GM8. Recoveries and reproducibility were within expected ranges on all compounds.

No water samples were received with this SDG; therefore, no water matrix spiking data is included in this report.

Case Narrative Authorized by: [signature] date 12-30-97

9613404.0824

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B07GM7

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11501

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH16CLP501

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: 11 decanted: (Y/N) N Date Extracted: 11/06/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/02/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	370	U
111-44-4	bis(2-Chloroethyl)Ether	370	U
95-57-8	2-Chlorophenol	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
95-50-1	1,2-Dichlorobenzene	370	U
95-48-7	2-Methylphenol	370	U
108-60-1	2,2'-oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-Di-n-Propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
111-91-1	bis(2-Chloroethoxy)Methane	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-Methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	900	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	900	U
131-11-3	Dimethyl Phthalate	370	U
208-96-8	Acenaphthylene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
99-09-2	3-Nitroaniline	900	U
83-32-9	Acenaphthene	370	U

9613404.0825

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B07GM7

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11501

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH16CLP501

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: 11 decanted: (Y/N) N Date Extracted: 11/06/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/02/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	900	U
100-02-7	4-Nitrophenol	900	U
132-64-9	Dibenzofuran	370	U
121-14-2	2,4-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
86-73-7	Fluorene	370	U
100-01-6	4-Nitroaniline	900	U
534-52-1	4,6-Dinitro-2-Methylphenol	900	U
86-30-6	N-Nitrosodiphenylamine (1)	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	900	U
85-01-8	Phenanthrene	370	U
120-12-7	Anthracene	370	U
86-74-8	Carbazole	370	U
84-74-2	Di-n-Butylphthalate	370	U
206-44-0	Fluoranthene	370	U
129-00-0	Pyrene	370	U
85-68-7	Butylbenzylphthalate	370	U
91-94-1	3,3'-Dichlorobenzidine	370	U
56-55-3	Benzo(a)Anthracene	370	U
218-01-9	Chrysene	370	U
117-81-7	bis(2-Ethylhexyl)Phthalate	100	BJ
117-84-0	Di-n-Octyl Phthalate	370	U
205-99-2	Benzo(b)Fluoranthene	370	U
207-08-9	Benzo(k)Fluoranthene	370	U
50-32-8	Benzo(a)Pyrene	370	U
193-39-5	Indeno(1,2,3-cd)Pyrene	370	U
53-70-3	Dibenz(a,h)Anthracene	370	U
191-24-2	Benzo(g,h,i)Perylene	370	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B07GM7

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11501

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH16CLP501

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: 11 decanted: (Y/N) N Date Extracted: 11/06/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/02/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 7

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALDOL CONDENSATION PRODUCT	9.05	220	ABJ
2.	ALDOL CONDENSATION PRODUCT	9.79	890	ABJ
3.	ALDOL CONDENSATION PRODUCT	10.02	180	ABJ
4.	UNKNOWN HYDROCARBON	33.79	190	J
5.	UNKNOWN HYDROCARBON	34.79	300	J
6.	UNKNOWN HYDROCARBON	38.99	460	J
7.	UNKNOWN HYDROCARBON	40.51	740	J

9613404.0827

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B07GM8

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11503

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GI13CLP503

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: 14 decanted: (Y/N) N Date Extracted: 11/06/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/10/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

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

9613404.0828

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B07GM8

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11503

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GI13CLP503

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: 14 decanted: (Y/N) N Date Extracted: 11/06/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/10/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	930	U
100-02-7	4-Nitrophenol	930	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	52	J
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	930	U
534-52-1	4,6-Dinitro-2-Methylphenol	930	U
86-30-6	N-Nitrosodiphenylamine (1)	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	930	U
85-01-8	Phenanthrene	380	U
120-12-7	Anthracene	380	U
86-74-8	Carbazole	380	U
84-74-2	Di-n-Butylphthalate	130	J
206-44-0	Fluoranthene	380	U
129-00-0	Pyrene	380	U
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)Anthracene	380	U
218-01-9	Chrysene	380	U
117-81-7	bis(2-Ethylhexyl)Phthalate	52	BJ
117-84-0	Di-n-Octyl Phthalate	380	U
205-99-2	Benzo(b)Fluoranthene	380	U
207-08-9	Benzo(k)Fluoranthene	380	U
50-32-8	Benzo(a)Pyrene	380	U
193-39-5	Indeno(1,2,3-cd)Pyrene	380	U
53-70-3	Dibenz(a,h)Anthracene	380	U
191-24-2	Benzo(g,h,i)Perylene	380	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B07GM8

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11503

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GI13CLP503

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: 14 decanted: (Y/N) N Date Extracted: 11/06/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/10/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALDOL CONDENSATION PRODUCT	9.80	220	ABJ
2.	ALDOL CONDENSATION PRODUCT	10.45	870	ABJ
3.	ALDOL CONDENSATION PRODUCT	10.64	260	ABJ

9613404.0830

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B07GN3

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11502

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH17CLP502

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: 9 decanted: (Y/N) N Date Extracted: 11/06/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/02/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)Ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-Di-n-Propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
111-91-1	bis(2-Chloroethoxy)Methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-Methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	880	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	880	U
131-11-3	Dimethyl Phthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	880	U
83-32-9	Acenaphthene	360	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B07GN3

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11502

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH17CLP502

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: 9 decanted: (Y/N) N Date Extracted: 11/06/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/02/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	880	U
100-02-7	4-Nitrophenol	880	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	880	U
534-52-1	4,6-Dinitro-2-Methylphenol	880	U
86-30-6	N-Nitrosodiphenylamine (1)	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	880	U
85-01-8	Phenanthrene	360	U
120-12-7	Anthracene	360	U
86-74-8	Carbazole	360	U
84-74-2	Di-n-Butylphthalate	360	U
206-44-0	Fluoranthene	360	U
129-00-0	Pyrene	360	U
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo(a)Anthracene	360	U
218-01-9	Chrysene	360	U
117-81-7	bis(2-Ethylhexyl)Phthalate	96	BJ
117-84-0	Di-n-Octyl Phthalate	360	U
205-99-2	Benzo(b)Fluoranthene	360	U
207-08-9	Benzo(k)Fluoranthene	360	U
50-32-8	Benzo(a)Pyrene	360	U
193-39-5	Indeno(1,2,3-cd)Pyrene	360	U
53-70-3	Dibenz(a,h)Anthracene	360	U
191-24-2	Benzo(g,h,i)Perylene	360	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B07GN3

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11502

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH17CLP502

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: 9 decanted: (Y/N) N Date Extracted: 11/06/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/02/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.6

Number TICs found: 4

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALDOL CONDENSATION PRODUCT	9.07	270	ABJ
2.	ALDOL CONDENSATION PRODUCT	9.80	870	ABJ
3.	ALDOL CONDENSATION PRODUCT	10.04	210	ABJ
4.	ALKANE @ C30	36.51	120	J

9613404.0833

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B07GN6

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11504

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GI14CLP504

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: 5 decanted: (Y/N) N Date Extracted: 11/06/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/10/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	350	U
111-44-4	bis(2-Chloroethyl)Ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2'-oxybis(1-Chloropropane)	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-Di-n-Propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
111-91-1	bis(2-Chloroethoxy)Methane	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-Methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	840	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	840	U
131-11-3	Dimethyl Phthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
99-09-2	3-Nitroaniline	840	U
83-32-9	Acenaphthene	350	U

P18

9613404.0834

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B07GN6

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11504

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GI14CLP504

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: 5 decanted: (Y/N) N Date Extracted: 11/06/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/10/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	840	U
100-02-7	4-Nitrophenol	840	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	22	J
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U
100-01-6	4-Nitroaniline	840	U
534-52-1	4,6-Dinitro-2-Methylphenol	840	U
86-30-6	N-Nitrosodiphenylamine (1)	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	840	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
86-74-8	Carbazole	350	U
84-74-2	Di-n-Butylphthalate	66	J
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3'-Dichlorobenzidine	350	U
56-55-3	Benzo(a)Anthracene	350	U
218-01-9	Chrysene	350	U
117-81-7	bis(2-Ethylhexyl)Phthalate	58	BJ
117-84-0	Di-n-Octyl Phthalate	350	U
205-99-2	Benzo(b)Fluoranthene	350	U
207-08-9	Benzo(k)Fluoranthene	350	U
50-32-8	Benzo(a)Pyrene	350	U
193-39-5	Indeno(1,2,3-cd)Pyrene	350	U
53-70-3	Dibenz(a,h)Anthracene	350	U
191-24-2	Benzo(g,h,i)Perylene	350	U

(1) - Cannot be separated from Diphenylamine

9613404.0835

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B07GN6

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11504

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GI14CLP504

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: 5 decanted: (Y/N) N Date Extracted: 11/06/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/10/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0

Number TICs found: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALDOL CONDENSATION PRODUCTS	9.82	160	ABJ
2.	ALDOL CONDENSATION PRODUCTS	10.47	660	ABJ
3.	ALDOL CONDENSATION PRODUCTS	10.67	270	ABJ
4.	ALKANE @ C29	35.22	210	J
5.	ALKANE @ C31	39.46	120	J

9613404.0836

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B07GN9

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11505

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GI15CLP505

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/06/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/10/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-Di-n-Propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy)Methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-Methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	800	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	800	U
131-11-3	Dimethyl Phthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	800	U
83-32-9	Acenaphthene	330	U

242

9613404.0837

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B07GN9

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11505

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GI15CLP505

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/06/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/10/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	800	U
100-02-7	4-Nitrophenol	800	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	800	U
534-52-1	4,6-Dinitro-2-Methylphenol	800	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	800	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-Butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)Anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)Phthalate	330	U
117-84-0	Di-n-Octyl Phthalate	330	U
205-99-2	Benzo(b)Fluoranthene	330	U
207-08-9	Benzo(k)Fluoranthene	330	U
50-32-8	Benzo(a)Pyrene	330	U
193-39-5	Indeno(1,2,3-cd)Pyrene	330	U
53-70-3	Dibenz(a,h)Anthracene	330	U
191-24-2	Benzo(g,h,i)Perylene	330	U

(1) - Cannot be separated from Diphenylamine

9613404.0838

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B07GN9

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11505

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GI15CLP505

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/06/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/10/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALDOL CONDENSATION PRODUCT	9.59	96	ABJ
2.	ALDOL CONDENSATION PRODUCT	10.27	410	ABJ

SDG NARRATIVE
PESTICIDE/PCB ANALYSIS

CASE NUMBER: **WHC38**
SDG: WHC038
SAMPLE NUMBERS FOR PESTICIDE/PCB ANALYSIS:

B07GM7, B07GM8, B07GM8DL, B07GM8MS, B07GM8MSD, B07GN3, B07GN6, B07GN9.

EPA-CLP CONTRACT NO.: **N/A**
DATACHEM LABORATORIES

I. SDG WHC038. DataChem Laboratories received five soil samples for case WHC38 which were assigned sample delivery group WHC038.

II. Pesticide/PCB Analysis.

1. The Pesticide/PCB analysis was contracted to be analyzed and reported according to the 3/90 EPA-CLP statement of work.

2. All of the contract requirements for standardization were met on the DB-608 column analyses. Standardization requirements were met on the DB-1701 analyses with the following exceptions:

A. Initial calibration started on 12/17/92: percent relative standard deviation for compounds beta-BHC, 4,4'-DDE, 4,4'-DDD, methoxychlor, and decachlorobiphenyl were over the required 20 percent.

B. Standard PEMF1: relative percent difference of methoxychlor was over 25 percent.

C. Standard PEMF2: endrin breakdown exceeded 20 percent.

D. Standard PEMF3: relative percent differences of 4,4'-DDT and methoxychlor were over 25 percent. Endrin breakdown exceeded 20 percent. Combined breakdown exceeded 30 percent.

E. Standard INDAMF2: relative percent differences of 4,4'-DDD, 4,4'-DDT, methoxychlor, and decachlorobiphenyl were over 25 percent.

F. Standard INDBMF2: relative percent differences of beta-BHC, 4,4'-DDE, and decachlorobiphenyl were over 25 percent.

G. Standard INDAMF3: relative percent differences of 4,4'-DDD, 4,4'-DDT, methoxychlor, and decachlorobiphenyl were over 25 percent.

H. Standard INDBMF3: relative percent differences of beta-BHC, 4,4'-DDE, and decachlorobiphenyl were over 25 percent.

III. Matrix Spike and Matrix Spike Duplicate Analyses. The matrix spike and matrix spike duplicate analyses were performed on sample B07GM8.

IV. Pesticide Abbreviations. The abbreviations used by the computer are summarized below:

TOX for Toxaphene
HEPT EPOX for Heptachlor Epoxide
ENDO 1 for Endosulfan I
ENDO II for Endosulfan II
END ALD for Endrin Aldehyde
G-CHLOR for Gamma Chlordane
A-CHLOR for Alpha Chlordane
ENDO SULF for Endosulfan Sulfate
END KET for Endrin Ketone
DCB for Decachlorobiphenyl
TCX for Tetrachloro-m-xylene
METHOX for Methoxychlor
HEPTA for Heptachlor
G-BHC for Gamma-BHC
A-BHC for Alpha-BHC
B-BHC for Beta-BHC
D-BHC for Delta-BHC

V. Certification.

I certify that this data package is in compliance with the terms and conditions of the contract both technically and for completeness except for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee and verified by the following signature.

1-11-92

Jose C. Danino, Ph.D. Date
Pesticide Section Manager

9613404.0841

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B07GM7

Lab Name:DATACHEM LABORATORIES Contract:68-D1-0080

Lab Code:DATAC Case No.WHC38 SAS No.: SDG No.:WHC03

Matrix: (soil/water)SOIL Lab Sample ID: CLP-11501

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

% Moisture: 11 decanted: (Y/N) N Date Received: 10/29/92

Extraction: (SepF/Cont/Sonc)SONC Date Extracted:11/06/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/24/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg)UG/KG	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC(Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.7	U
72-55-9	4,4'-DDE	78.	
72-20-8	Endrin	0.57	JP
33213-65-9	Endosulfan II	3.7	U
72-54-8	4,4'-DDD	1.3	JP
1031-07-8	Endosulfan sulfate	3.7	U
50-29-3	4,4'-DDT	24.	
72-43-5	Methoxychlor	390.	B
53494-70-5	Endrin ketone	3.7	U
7421-36-3	Endrin aldehyde	3.7	U
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190.	U
12674-11-2	Aroclor-1016	37.	U
11104-28-2	Aroclor-1221	75.	U
11141-16-5	Aroclor-1232	37.	U
53469-21-9	Aroclor-1242	37.	U
12672-29-6	Aroclor-1248	37.	U
11097-69-1	Aroclor-1254	37.	U
11096-82-5	Aroclor-1260	37.	U

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1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B07GM8

Lab Name:DATACHEM LABORATORIES Contract:68-D1-0080

Lab Code:DATAC Case No.WHC38 SAS No.: SDG No.:WHC03

Matrix: (soil/water)SOIL Lab Sample ID: CLP-11503

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

% Moisture: 14 decanted: (Y/N) N Date Received: 10/29/92

Extraction: (SepF/Cont/Sonc)SONC Date Extracted:11/06/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/24/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg)UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC(Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.8	U
72-55-9	4,4'-DDE	140.	
72-20-8	Endrin	0.85	JP
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	1.5	JP
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	46.	
72-43-5	Methoxychlor	3.0	PB
53494-70-5	Endrin ketone	3.8	U
7421-36-3	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200.	U
12674-11-2	Aroclor-1016	38.	U
11104-28-2	Aroclor-1221	78.	U
11141-16-5	Aroclor-1232	38.	U
53469-21-9	Aroclor-1242	38.	U
12672-29-6	Aroclor-1248	38.	U
11097-69-1	Aroclor-1254	38.	U
11096-82-5	Aroclor-1260	38.	U

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1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B07GM8DL

Lab Name:DATACHEM LABORATORIES Contract:68-D1-0080

Lab Code:DATAC Case No.WHC38 SAS No.: SDG No.:WHC03

Matrix: (soil/water)SOIL Lab Sample ID: CLP-11503DF2

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

% Moisture: 14 decanted: (Y/N) N Date Received: 10/29/92

Extraction: (SepF/Cont/Sonc)SONC Date Extracted:11/06/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 12/18/92

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg)UG/KG	Q
319-84-6	alpha-BHC	4.0	U
319-85-7	beta-BHC	4.0	U
319-86-8	delta-BHC	4.0	U
58-89-9	gamma-BHC(Lindane)	4.0	U
76-44-8	Heptachlor	4.0	U
309-00-2	Aldrin	4.0	U
1024-57-3	Heptachlor epoxide	4.0	U
959-98-8	Endosulfan I	4.0	U
60-57-1	Dieldrin	7.7	U
72-55-9	4,4'-DDE	25.	DP
72-20-8	Endrin	7.7	U
33213-65-9	Endosulfan II	7.7	U
72-54-8	4,4'-DDD	4.4	DJP
1031-07-8	Endosulfan sulfate	0.13	DJP
50-29-3	4,4'-DDT	9.4	DP
72-43-5	Methoxychlor	4.7	DJPB
53494-70-5	Endrin ketone	7.7	U
7421-36-3	Endrin aldehyde	7.7	U
5103-71-9	alpha-Chlordane	4.0	U
5103-74-2	gamma-Chlordane	4.0	U
8001-35-2	Toxaphene	400.	U
12674-11-2	Aroclor-1016	77.	U
11104-28-2	Aroclor-1221	160.	U
11141-16-5	Aroclor-1232	77.	U
53469-21-9	Aroclor-1242	77.	U
12672-29-6	Aroclor-1248	77.	U
11097-69-1	Aroclor-1254	77.	U
11096-82-5	Aroclor-1260	77.	U

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1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B07GN3

Lab Name:DATACHEM LABORATORIES Contract:68-D1-0080

Lab Code:DATAC Case No.WHC38 SAS No.: SDG No.:WHC03

Matrix: (soil/water)SOIL Lab Sample ID: CLP-11502

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

% Moisture: 9 decanted: (Y/N) N Date Received: 10/29/92

Extraction: (SepF/Cont/Sonc)SONC Date Extracted:11/06/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/24/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N)Y pH: 8.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg)UG/KG	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC(Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.6	U
72-55-9	4,4'-DDE	6.2	
72-20-8	Endrin	3.6	U
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	3.6	U
1031-07-8	Endosulfan sulfate	3.6	U
50-29-3	4,4'-DDT	3.0	J
72-43-5	Methoxychlor	3.0	PB
53494-70-5	Endrin ketone	3.6	U
7421-36-3	Endrin aldehyde	3.6	U
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190.	U
12674-11-2	Aroclor-1016	36.	U
11104-28-2	Aroclor-1221	74.	U
11141-16-5	Aroclor-1232	36.	U
53469-21-9	Aroclor-1242	36.	U
12672-29-6	Aroclor-1248	36.	U
11097-69-1	Aroclor-1254	36.	U
11096-82-5	Aroclor-1260	36.	U

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1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B07GN6

Lab Name:DATACHEM LABORATORIES Contract:68-D1-0080

Lab Code:DATAC Case No.WHC38 SAS No.: SDG No.:WHCO3

Matrix: (soil/water)SOIL Lab Sample ID: CLP-11504

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

% Moisture: 5 decanted: (Y/N) N Date Received: 10/29/92

Extraction: (SepF/Cont/Sonc)SONC Date Extracted:11/06/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/24/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N)Y pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg)UG/KG	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC(Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.5	U
72-55-9	4,4'-DDE	3.3	J
72-20-8	Endrin	3.5	U
33213-65-9	Endosulfan II	3.5	U
72-54-8	4,4'-DDD	3.5	U
1031-07-8	Endosulfan sulfate	3.5	U
50-29-3	4,4'-DDT	2.9	J
72-43-5	Methoxychlor	5.7	B
53494-70-5	Endrin ketone	3.5	U
7421-36-3	Endrin aldehyde	3.5	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180.	U
12674-11-2	Aroclor-1016	35.	U
11104-28-2	Aroclor-1221	71.	U
11141-16-5	Aroclor-1232	35.	U
53469-21-9	Aroclor-1242	35.	U
12672-29-6	Aroclor-1248	35.	U
11097-69-1	Aroclor-1254	35.	U
11096-82-5	Aroclor-1260	35.	U

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1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B07GN9

Lab Name:DATACHEM LABORATORIES Contract:68-D1-0080

Lab Code:DATAC Case No.WHC38 SAS No.: SDG No.:WHC03

Matrix: (soil/water)SOIL Lab Sample ID: CLP-11505

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

% Moisture: 0 decanted: (Y/N) N Date Received: 10/29/92

Extraction: (SepF/Cont/Sonc)SONC Date Extracted:11/06/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/25/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg)UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC(Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	1.5	PB
53494-70-5	Endrin ketone	3.3	U
7421-36-3	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170.	U
12674-11-2	Aroclor-1016	33.	U
11104-28-2	Aroclor-1221	67.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	33.	U

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ENVIROFORMS/INORGANIC CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: DataChem Laboratories Contract: WHC

Lab Code: DATAC Case No.: WHC38 SAS No.: SDG No.: WHCI38

SOW No.: ILM01.2

Sample No.	Lab Sample ID.
M11501	CLP11501
M11501D	CLP11501
M11501S	CLP11501
M11502	CLP11502
M11503	CLP11503
M11504	CLP11504
M11505	CLP11505

Were ICP interelement corrections applied? Yes/No YES

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

Comments:

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

Signature: Name: Brent E. Stephens

Date: December 3, 1992 Title: Section Manager

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ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

M11501

Lab Name: DataChem Laboratories Contract: WHC

Lab Code: DATAC Case No.: WHC38 SAS No.: SDG No.: WHCI38

Matrix (soil/water): SOIL Lab Sample ID: CLP11501

Level (low/med): LOW Date Received: 10/29/92

% Solids: 84.4

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14400			P
7440-36-0	Antimony	14.2	U	N	P
7440-38-2	Arsenic	5.6			F
7440-39-3	Barium	401			P
7440-41-7	Beryllium	0.92	B		P
7440-43-9	Cadmium	1.2	U		P
7440-70-2	Calcium	17300			P
7440-47-3	Chromium	14.8			P
7440-48-4	Cobalt	8.2	B		P
7440-50-8	Copper	29.5			P
7439-89-6	Iron	19000			P
7439-92-1	Lead	15.7		NS	F
7439-95-4	Magnesium	7480			P
7439-96-5	Manganese	299		*	P
7439-97-6	Mercury	0.06	U		CV
7440-02-0	Nickel	8.2	B		P
7440-09-7	Potassium	1560			P
7782-49-2	Selenium	0.24	U	NW	F
7440-22-4	Silver	0.95	U		P
7440-23-5	Sodium	590	B	E	P
7440-28-0	Thallium	0.32	B		F
7440-62-2	Vanadium	43.3			P
7440-66-6	Zinc	41.9			P
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:
E - ICP SERIAL DILUTION IS OUTSIDE OF CONTROL LIMITS

2

9613404.0849

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

M11502

Lab Name: DataChem Laboratories Contract: WHC

Lab Code: DATAC Case No.: WHC38 SAS No.: SDG No.: WHCI38

Matrix (soil/water): SOIL Lab Sample ID: CLP11502

Level (low/med): LOW Date Received: 10/29/92

% Solids: 90.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10500			P
7440-36-0	Antimony	13.3	U	N	P
7440-38-2	Arsenic	6.8			F
7440-39-3	Barium	308			P
7440-41-7	Beryllium	0.78	B		P
7440-43-9	Cadmium	1.1	U		P
7440-70-2	Calcium	23900			P
7440-47-3	Chromium	12.6			P
7440-48-4	Cobalt	8.8	B		P
7440-50-8	Copper	16.3			P
7439-89-6	Iron	19200			P
7439-92-1	Lead	11.4		NS	F
7439-95-4	Magnesium	6180			P
7439-96-5	Manganese	341		*	P
7439-97-6	Mercury	0.06	U		CV
7440-02-0	Nickel	9.9			P
7440-09-7	Potassium	1250			P
7782-49-2	Selenium	0.22	U	NW	F
7440-22-4	Silver	0.89	U		P
7440-23-5	Sodium	516	B	E	P
7440-28-0	Thallium	0.22	U		F
7440-62-2	Vanadium	48.2			P
7440-66-6	Zinc	38.5			P
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:
E - ICP SERIAL DILUTION IS OUTSIDE OF CONTROL LIMITS

9613404.0850

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

M11503

Lab Name: DataChem Laboratories Contract: WHC

Lab Code: DATAC Case No.: WHC38 SAS No.: SDG No.: WHCI38

Matrix (soil/water): SOIL Lab Sample ID: CLP11503

Level (low/med): LOW Date Received: 10/29/92

% Solids: 83.9

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14400			P
7440-36-0	Antimony	14.3	U	N	P
7440-38-2	Arsenic	5.5			F
7440-39-3	Barium	431			P
7440-41-7	Beryllium	0.88	B		P
7440-43-9	Cadmium	1.2	U		P
7440-70-2	Calcium	17600			P
7440-47-3	Chromium	13.8			P
7440-48-4	Cobalt	9.0	B		P
7440-50-8	Copper	21.5			P
7439-89-6	Iron	19100			P
7439-92-1	Lead	15.0		NS	F
7439-95-4	Magnesium	7400			P
7439-96-5	Manganese	334		*	P
7439-97-6	Mercury	0.06	U		CV
7440-02-0	Nickel	13.6			P
7440-09-7	Potassium	1590			P
7782-49-2	Selenium	0.24	U	NW	F
7440-22-4	Silver	0.95	U		P
7440-23-5	Sodium	590	B	E	P
7440-28-0	Thallium	0.24	U		F
7440-62-2	Vanadium	43.3			P
7440-66-6	Zinc	45.6			P
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:
E - ICP SERIAL DILUTION IS OUTSIDE OF CONTROL LIMITS

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ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

M11504

Lab Name: DataChem Laboratories Contract: WHC

Lab Code: DATAC Case No.: WHC38 SAS No.: SDG No.: WHCI38

Matrix (soil/water): SOIL Lab Sample ID: CLP11504

Level (low/med): LOW Date Received: 10/29/92

% Solids: 94.9

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13300			P
7440-36-0	Antimony	12.6	U	N	P
7440-38-2	Arsenic	8.1			F
7440-39-3	Barium	114			P
7440-41-7	Beryllium	0.54	B		P
7440-43-9	Cadmium	1.1	U		P
7440-70-2	Calcium	14600			P
7440-47-3	Chromium	19.0			P
7440-48-4	Cobalt	10.8			P
7440-50-8	Copper	21.1			P
7439-89-6	Iron	23400			P
7439-92-1	Lead	15.0		NS	F
7439-95-4	Magnesium	7580			P
7439-96-5	Manganese	466		*	P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	19.2			P
7440-09-7	Potassium	2130			P
7782-49-2	Selenium	0.21	U	NW	F
7440-22-4	Silver	0.84	U		P
7440-23-5	Sodium	588	B	E	P
7440-28-0	Thallium	0.21	U		F
7440-62-2	Vanadium	44.2			P
7440-66-6	Zinc	58.6			P
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:
E - ICP SERIAL DILUTION IS OUTSIDE OF CONTROL LIMITS

9613404.0852

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

M11505

Lab Name: DataChem Laboratories Contract: WHC

Lab Code: DATAC Case No.: WHC38 SAS No.: SDG No.: WHCI38

Matrix (soil/water): SOIL Lab Sample ID: CLP11505

Level (low/med): LOW Date Received: 10/29/92

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	131			P
7440-36-0	Antimony	12.0	U	N	P
7440-38-2	Arsenic	0.40	U		F
7440-39-3	Barium	1.4	B		P
7440-41-7	Beryllium	0.40	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	29.9	B		P
7440-47-3	Chromium	1.8	U		P
7440-48-4	Cobalt	2.2	U		P
7440-50-8	Copper	1.4	U		P
7439-89-6	Iron	170			P
7439-92-1	Lead	0.65		N	F
7439-95-4	Magnesium	20.8	B		P
7439-96-5	Manganese	3.9		*	P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	5.8	U		P
7440-09-7	Potassium	206	U		P
7782-49-2	Selenium	0.23	B	NW	F
7440-22-4	Silver	0.80	U		P
7440-23-5	Sodium	11.8	B	E	P
7440-28-0	Thallium	0.20	U		F
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	1.8	U		P
	Cyanide				NR

Color Before: WHITE Clarity Before: Texture: COARSE

Color After: COLORLESS Clarity After: Artifacts:

Comments:
E - ICP SERIAL DILUTION IS OUTSIDE OF CONTROL LIMITS

ANALYTICAL REQUEST FORM

DATA CHEM LABORATORIES

513404.0853

1. ☐ REGULAR Status

☐ RUSH Status Requested - ADDITIONAL CHARGE

RESULTS REQUIRED BY _____ DATE

CONTACT DATACHEM LABS PRIOR TO SENDING SAMPLES.

2. Date 10-22-92 Purchase Order No. _____

3. Company Name Westinghouse Hanford Co.

Address PO Box 1970

Richland, WA 99352

Person to Contact Frank Gustafson

Telephone (509) 376-1736

Fax Telephone (509) 376-6476

Billing Address (if different from above)

4. Sample Collection

Sampling Site North Slope PSN04

Industrial Process _____

Date of Collection 21/22/23 Oct 92

Time Collected See Bottles

Date of Shipment 10-22-92

Chain of Custody No. N/A

5. REQUEST FOR ANALYSES

Laboratory Use Only	Client Sample Number	Media Type*	Sample Volume (Liters)	ANALYSES REQUESTED - Use Method Number if Known
CLP 11501	B07GM7			Glass Septum 120ml: VOA (CLP)
11502	B07GN3			Amber glass 250 or 1000 ml: Semi-VOA
11503	B07GM8			(CLP) Pest/PCB (CLP) Phosphorus
11504	B07GN6			Pest. (8140) Herbicides (8150)
11505	B07GN9			[The 1l sample is for QA/QC to assure adequate supply.]
				Amber glass 120ml: ICP, AA (As, Pb,
				Se, Tl and Hg) metals (CLP)
				Amber glass 120ml: F Cl PO_4 SO_4
				by EPA 300.0 / NO_2 NO_3 by EPA
				353.3 / Chromium VI by EPA 218.4
				Amber glass 120ml: TPH (EPA 418.1)

*Specify: Solid sorbent tube, e.g. Charcoal; Filter type; Impinger solution; Bulk Sample; Blood; Urine; Tissue; Soil; Water; Other

6. Q C REQUIREMENTS

MUST BE COMPLETED - See General Services Terms and Conditions: QC samples billed at regular sample rate

☐ METHOD QC SAMPLES (Lab QC according to published methods)

☐ PROJECT PLAN QC SAMPLES (Lab QC according to provided QA/QC Plan)

☐ NO QC SAMPLES REQUESTED (May not conform to Agency requirements)

☐ OTHER (as specified below)

Comments CERCLA samples, Store 4°C

Possible Contamination and/or Chemical Hazards _____

7. Requested by _____

960 West LeVoy Drive / Salt Lake City, UT 84123 800-356-9135 or 801- 266-7700 / FAX: 801-268-9992
4388 Glendale-Milford Road / Cincinnati, OH 45242 800-458-1493 or 513-733-5336 / FAX: 513-733-5347

DATACHEM LABORATORIES - A SORENSON COMPANY

DISTRIBUTION: WHITE - LABORATORY COPY CANARY - CUSTOMER COPY

Westinghouse Hanford Company 9613404.0854

CHAIN OF CUSTODY

Custody Form Initiator FRANK GUSTAFSON

Company Contact FRANK GUSTAFSON

Telephone (509) 376-1736

Project Designation/Sampling Locations NORTH SLOPE - PSN-04

Collection Date 10-20-92 / 10-21-92

Ice Chest No. RM 89

Field Logbook No. EFL-1031

Bill of Lading/Airbill No. 2509865886

Offsite Property No. 1093-0-0002 #28

Method of Shipment Emery

Shipped to DATA CHEM

Possible Sample Hazards/Remarks N/A

Sample Identification

BØ7GN4	GLASS SEPTUM 120 ML: VOA (CLP)
BØ7GN5	AMBER GLASS 250 ML OR 1000 ML: SEMI-VOA
BØ7GN6	(CLP), PEST/PCB (CLP), PHOSPHORUS
BØ7GN7	PEST (8140), HERBICIDES (8150)
BØ7GN8	[THE 1 L SAMPLE IS FOR QA/QC TO ASSURE
BØ7GN9	ADEQUATE SUPPLY]
	AMBER GLASS 120 ML: ICP, AA (As, Pb, Se, Tl, AND
	METALS (CLP)
	AMBER GLASS 120 ML: F, Cl, PO_4, SO_4, B, EPA 300,
	NO_2, NO_3 by EPA 353.3 / CHROMIUM VI by EPA 218.4
	AMBER GLASS 120 ML: TPH (EPA 418.1)

☐ Field Transfer of Custody

CHAIN OF POSSESSION (Sign and Print Names)

Relinquished by:	Received by:	Date/Time:
Jonathan E. Lucas		10-29-92 / 1200
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:

Comments: 198

A-6000-407 (12/90)

SAMPLE LOG-IN SHEET

SF- 1350

Lab Name: DataChem Laboratories

Page ____ of ____

Received By (Print Name): Tom Jackson

Log-In Date: 10-30-92

Received By (Signature):

Case Number: WHC 38

Sample Delivery Group No.: WHC 38

SAS Number:

CIRCLE THE APPROPRIATE RESPONSE:

1. Custody Seal(s) Present/Absent* Intact/Broken*
2. Custody Seal Nos.: None
3. Chain-of-Custody Records Present/Absent*
4. Traffic Reports or Packing List Present/Absent*
5. Airbill Airbill/Sticker Present/Absent*
6. Airbill No.: 2509965886
7. Sample Tags Present/Absent*
   Sample Tag Numbers Listed/Not Listed on Chain-of-Custody
8. Sample Condition: Intact/Broken*/Leaking*
9. Does information on custody records, traffic reports, and sample tags agree? Yes/No*
10. Date Received at Lab: 10-29-92
11. Time Received: 1200

SAMPLE TRANSFER

Fraction: Vols

Area #: Vol Lab

By: [illegible]

On: 10-30-92

	CORRESPONDING			
EPA SAMPLE #	SAMPLE TAG #	ASSIGNED LAB #	MATRIX	REMARKS: CONDITION OF SAMPLE SHIPMENT, ETC.
B07 GM7	N/A	CLP 11501	S	Acceptable
GN3		11502		
GM8		11503		
GN6		11504		
GN9		11505		

10-30-92

* If Circled, contact SMO and attach record of resolution.

11/89 Rev.

Reviewed By: [illegible]

Date: 11/9/92

Logbook No.:

Logbook Page No.:

FORM DC-1

9613404.0856

VALIDATION SUMMARY

9613404.0857

B07GM7-DAT-205

Golder Associates Inc.

4104-148th Avenue, NE
Redmond, WA 98052
Telephone (206) 883-0777
Fax (206) 882-5498

Golder Associates

June 22, 1993

Our ref: 893-1458
WHC/O/381

Westinghouse Hanford Company
Hanford Analytical Services Management
345 Hills, MSIN H4-29
Richland, Washington 99352

ATTENTION: Ms. Brianna Colley

RE: NORTH SLOPE ERA DATA VALIDATION, TASK ORDER G-93-58, TRANSMITTAL OF DATA VALIDATION PACKAGES

Dear Ms. Colley:

Enclosed are six complete analytical data packages including associated data validation documentation for a North Slope ERA sample analyzed by the DataChem laboratory for volatile, semivolatile, chlorinated pesticide/PCB, chlorinated herbicide and phosphate pesticide organic compounds, metals, anions, and total petroleum hydrocarbons.

The data packages included in this shipment are:

- B07KQ6-DAT-234
- B07KQ4-DAT-233
- B07KR5-DAT-236
- B07KR4-DAT-232
- B07GM7-DAT-205
- B07GP0-DAT-194

The validation documentation is located at the front of the data package folder.

Please call if you have any questions.

Sincerely,

GOLDER ASSOCIATES INC.

Kent M. Angelos
Project Manager

Donald M. Caldwell
Project Director

Enclosures

cc: George Henckel, WHC

RECEIVED
JUN 23 1993
VALIDATION DOCUMENTATION
SDLA

9613404.0858

RECEIVED
JUN 23 1993
VALIDATION DOCUMENTATION
SDLA

MEMORANDUM

TO: North Slope ERA Data Validation Project QA Record June 22, 1993

FR: Tom Stapp, Golder Associates Inc.

RE: Data Validation Summary for Data Package: B07GM7-DAT-205

INTRODUCTION

This memo presents the results of data validation and verification on data package B07GM7-DAT-205 consisting of five soil samples submitted for volatile, semivolatile, pesticide/PCB, organochlorine herbicides, organophosphorus pesticides, metals, general chemistry and total recoverable petroleum hydrocarbons analysis. The samples were analyzed by the DataChem laboratory using CLP protocols as applicable and SW-846 methods. The following table describes the samples validated, sample dates and analyses performed.

SAMPLE ID	SAMPLE DATE	VOA	BNA	PEST PCB	HERB	PHOS PEST	METALS	GEN. CHEM	TPH
B07GM7	10/20/92	X	X	X	X	X	X	X	X
B07GN3	10/21/92	X	X	X	X	X	X	X	X
B07GM8	10/26/92	X	X	X	X	X	X	X	X
B07GN6	10/26/92	X	X	X	X	X	X	X	X
B07GN9	10/26/92	X	X	X	X	X	X	X	X

Data verification and validation was conducted in accordance with the WHC statement of work (WHC 1993) and validation procedures (Bechtold 1992). Attachment 1 provides copies of the verified laboratory reports and Attachment 2 provides data validation supporting documentation.

DATA QUALITY OBJECTIVES

Sample Result Verification. The data package was complete for all requested analyses and all results were supported in the raw data. The total phosphate result for sample B07GN6 was reported incorrectly and has been corrected on the laboratory report form.

MAJOR DEFICIENCIES

No major deficiencies were identified requiring qualification of data.

The semivolatile tentatively identified compounds (TICs) identified as aldol condensation products in samples B07GM7, B07GM8, B07GN3, B07GN6 and B07GN9 have been rejected (R) since they are suspected laboratory contaminants.

MINOR DEFICIENCIES

Volatile Blanks

Acetone was detected in the laboratory method blank associated with all the samples. Therefore, all sample results have been qualified as undetected (U) for this parameter.

Semi-volatile Blanks

Bis(2-ethylhexyl)phthalate was detected in the laboratory method blank and samples B07GM7, B07GM8, B07GN3 and B07GN6. Therefore, the sample results have been qualified as undetected (U).

Pesticide/PCB Blanks

Methoxychlor was detected in the laboratory method blank and samples B07GM8, B07GN3, B07GN6, and B07GN9. Therefore, all sample results have been qualified as undetected (U).

Inorganic Blanks

Selenium and sodium were detected in the laboratory blank samples and sample B07GN9. Therefore results for selenium and sodium in sample B07GN9 have been qualified as undetected (U).

REFERENCES

WHC, 1993, Westinghouse Hanford Company, North Slope ERA Data Validation, Task Order G-93-01-58. Westinghouse Hanford Company, Richland, Washington.

Bechtold, 1992, Westinghouse Hanford Company, Data Validation Procedures for Chemical Analyses, WHC-SD-EN-SPP-002, Rev. 1, 1992. Westinghouse Hanford Company, Richland, Washington.

9613404.0860

ATTACHMENT 1

VERIFIED LABORATORY REPORTS

9613404.0861

DATA CHEM LABORATORIES

ENVIRONMENTAL SOIL REPORT

Form EPRS-A
Page 1 of 2
Part 1 of 1

JUN 1

Date _____
Agency Identification Number SF-1350-EK
Account No. 3534C

Westinghouse Hanford Company
2355 Stevens Drive
MSIN T6-08
Richland, WA 99352
Attention: Jeanette Duncan

COPY

Telephone (509) [illegible]

JUN 1993 RECEIVED SOLA

Sampling Collection and Shipment

Sampling Site _____ Date of Collection October 20, [illegible]

Date Samples Received at Laboratory October 29, 1992

Analytical Results

Parameter Name / Analysis Date / Method / Prep Method	Units	Field Number / Lab Number: B07GM7 CLP 11501	B07GN3 CLP 11502	B07GM8 CLP 11503	B07GN6 CLP 11504	B07GN9 CLP 11505			* Limit of Detection
Fluoride (F) 11/04/1992 300.0 [1]	µg/g	3.	3.	3.	3.	ND*			2.
Chloride (Cl) 11/04/1992 300.0 [1]	µg/g	27.	2.	28.	73.	ND*			2.
Sulfate (SO_4) 11/04/1992 300.0 [1]	µg/g	880	13.	770	170	ND*			2.
Phosphate (PO_4-P) 11/04/1992 300.0 [1]	µg/g	ND*	ND*	ND*	~~ND*~~ 1	ND*		6/16/93	0.7
Nitrates (NO_3-N + NO_2-N) 11/14/1992 353.2 [1]	µg/g	4.	2.	4.	3.	ND*			1.
Chromium VI 11/12/1992 7196 [2] 3060M [2]	µg/g	ND*	ND*	ND*	ND*	ND*			1.

† See comment on last page.
ND Parameter not detected.
NR Parameter not requested.
1 Analyses completed on or before this date.

** Parameter not analyzed (See comment page).
( ) Parameter between LOD and LOQ.
[ ] Method Reference (See comments page.)

Cynthia Adams 6/16/93
Analyst: Cynthia Adams

Michael E. Richmond
Reviewer: Michael E. Richmond

Norman K. Christensen for MPB
Laboratory Supervisor: Michael P. Beesley

RECORD COPY

960 West LeVoy Drive / Salt Lake City, Utah 84123-2547 / (801) 266-7700
A Sorenson Company

9613404.0862

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B07GM7

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11501

Sample wt/vol: 5.0 (g/mL) G Lab File ID: PB69CLP501

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: not dec. 11 Date Analyzed: 11/04/92

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

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

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

9/16/9

9613404.0863

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B07GM8

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11503

Sample wt/vol: 5.0 (g/mL) G Lab File ID: PB71CLP503

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: not dec. 14 Date Analyzed: 11/04/92

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

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

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

6/16/9

8

9613404.0864

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B07GN3

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11502

Sample wt/vol: 5.0 (g/mL) G Lab File ID: PB70CLP502

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: not dec. 9 Date Analyzed: 11/04/92

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11	U
67-64-1	Acetone	32	~~B~~ U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

RS 6/16/9

9

9613404.0865

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B07GN6

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11504

Sample wt/vol: 5.0 (g/mL) G Lab File ID: PB72CLP504

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: not dec. 5 Date Analyzed: 11/04/92

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11	U
67-64-1	Acetone	24	~~B~~ U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

R 6/16/93

11

9613404.0866

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B07GN9

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11505

Sample wt/vol: 5.0 (g/mL) G Lab File ID: PB76CLP505

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: not dec. 0 Date Analyzed: 11/04/92

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	21	~~B~~ U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	3	J
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

RG 11/16/93

12

9613404.0867

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B07GM7

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11501

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH16CLP501

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: 11 decanted: (Y/N) N Date Extracted: 11/06/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/02/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	370	U
111-44-4	bis(2-Chloroethyl)Ether	370	U
95-57-8	2-Chlorophenol	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
95-50-1	1,2-Dichlorobenzene	370	U
95-48-7	2-Methylphenol	370	U
108-60-1	2,2'-oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-Di-n-Propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
111-91-1	bis(2-Chloroethoxy)Methane	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-Methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	900	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	900	U
131-11-3	Dimethyl Phthalate	370	U
208-96-8	Acenaphthylene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
99-09-2	3-Nitroaniline	900	U
83-32-9	Acenaphthene	370	U

6/16/9

9613404.0868
1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B07GM7

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11501

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH16CLP501

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: 11 decanted: (Y/N) N Date Extracted: 11/06/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/02/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	900	U
100-02-7	4-Nitrophenol	900	U
132-64-9	Dibenzofuran	370	U
121-14-2	2,4-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
86-73-7	Fluorene	370	U
100-01-6	4-Nitroaniline	900	U
534-52-1	4,6-Dinitro-2-Methylphenol	900	U
86-30-6	N-Nitrosodiphenylamine (1)	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	900	U
85-01-8	Phenanthrene	370	U
120-12-7	Anthracene	370	U
86-74-8	Carbazole	370	U
84-74-2	Di-n-Butylphthalate	370	U
206-44-0	Fluoranthene	370	U
129-00-0	Pyrene	370	U
85-68-7	Butylbenzylphthalate	370	U
91-94-1	3,3'-Dichlorobenzidine	370	U
56-55-3	Benzo(a)Anthracene	370	U
218-01-9	Chrysene	370	U
117-81-7	bis(2-Ethylhexyl)Phthalate	370 ~~100~~	~~BJ~~ U
117-84-0	Di-n-Octyl Phthalate	370	U
205-99-2	Benzo(b)Fluoranthene	370	U
207-08-9	Benzo(k)Fluoranthene	370	U
50-32-8	Benzo(a)Pyrene	370	U
193-39-5	Indeno(1,2,3-cd)Pyrene	370	U
53-70-3	Dibenz(a,h)Anthracene	370	U
191-24-2	Benzo(g,h,i)Perylene	370	U

(1) - Cannot be separated from Diphenylamine

6/16/93

9613404.0869

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B07GM7

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11501

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH16CLP501

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: 11 decanted: (Y/N) N Date Extracted: 11/06/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/02/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 7

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
~~1.~~	~~ALDOL CONDENSATION PRODUCT~~	~~9.05~~	~~220~~	~~ABJ~~ R
~~2.~~	~~ALDOL CONDENSATION PRODUCT~~	~~9.79~~	~~890~~	~~ABJ~~ R
~~3.~~	~~ALDOL CONDENSATION PRODUCT~~	~~10.02~~	~~180~~	~~ABJ~~ R
4.	UNKNOWN HYDROCARBON	33.79	190	J
5.	UNKNOWN HYDROCARBON	34.79	300	J
6.	UNKNOWN HYDROCARBON	38.99	460	J
7.	UNKNOWN HYDROCARBON	40.51	740	J

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6/16/93

9613404.0870

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B07GM8

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11503

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GI13CLP503

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: 14 decanted: (Y/N) N Date Extracted: 11/06/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/10/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

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

9613404.0871

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B07GM8

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11503

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GI13CLP503

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: 14 decanted: (Y/N) N Date Extracted: 11/06/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/10/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	930	U
100-02-7	4-Nitrophenol	930	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	52	J
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	930	U
534-52-1	4,6-Dinitro-2-Methylphenol	930	U
86-30-6	N-Nitrosodiphenylamine (1)	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	930	U
85-01-8	Phenanthrene	380	U
120-12-7	Anthracene	380	U
86-74-8	Carbazole	380	U
84-74-2	Di-n-Butylphthalate	130	J
206-44-0	Fluoranthene	380	U
129-00-0	Pyrene	380	U
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)Anthracene	380	U
218-01-9	Chrysene	380	U
117-81-7	bis(2-Ethylhexyl)Phthalate	380 ~~52~~	~~BJ~~ U
117-84-0	Di-n-Octyl Phthalate	380	U
205-99-2	Benzo(b)Fluoranthene	380	U
207-08-9	Benzo(k)Fluoranthene	380	U
50-32-8	Benzo(a)Pyrene	380	U
193-39-5	Indeno(1,2,3-cd)Pyrene	380	U
53-70-3	Dibenz(a,h)Anthracene	380	U
191-24-2	Benzo(g,h,i)Perylene	380	U

(1) - Cannot be separated from Diphenylamine

RB 6/16/9

9613404.0872

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B07GM8

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11503

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GI13CLP503

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: 14 decanted: (Y/N) N Date Extracted: 11/06/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/10/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
~~1.~~	~~ALDOL CONDENSATION PRODUCT~~	~~9.80~~	~~220~~	~~ABJ~~ R
~~2.~~	~~ALDOL CONDENSATION PRODUCT~~	~~10.45~~	~~870~~	~~ABJ~~ R
~~3.~~	~~ALDOL CONDENSATION PRODUCT~~	~~10.64~~	~~260~~	~~ABJ~~ R

MS 6/18/93

6/16/93

24

9613404.0873

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B07GN3

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11502

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH17CLP502

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: 9 decanted: (Y/N) N Date Extracted: 11/06/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/02/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)Ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-Di-n-Propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
111-91-1	bis(2-Chloroethoxy)Methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-Methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	880	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	880	U
131-11-3	Dimethyl Phthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	880	U
83-32-9	Acenaphthene	360	U

6/16/9

9613404.0874

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B07GN3

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11502

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH17CLP502

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: 9 decanted: (Y/N) N Date Extracted: 11/06/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/02/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	880	U
100-02-7	4-Nitrophenol	880	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	880	U
534-52-1	4,6-Dinitro-2-Methylphenol	880	U
86-30-6	N-Nitrosodiphenylamine (1)	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	880	U
85-01-8	Phenanthrene	360	U
120-12-7	Anthracene	360	U
86-74-8	Carbazole	360	U
84-74-2	Di-n-Butylphthalate	360	U
206-44-0	Fluoranthene	360	U
129-00-0	Pyrene	360	U
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo(a)Anthracene	360	U
218-01-9	Chrysene	360	U
117-81-7	bis(2-Ethylhexyl)Phthalate	360 ~~96~~	~~BJ~~ U
117-84-0	Di-n-Octyl Phthalate	360	U
205-99-2	Benzo(b)Fluoranthene	360	U
207-08-9	Benzo(k)Fluoranthene	360	U
50-32-8	Benzo(a)Pyrene	360	U
193-39-5	Indeno(1,2,3-cd)Pyrene	360	U
53-70-3	Dibenz(a,h)Anthracene	360	U
191-24-2	Benzo(g,h,i)Perylene	360	U

(1) - Cannot be separated from Diphenylamine

6/16/93

9613404.0875

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B07GN3

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11502

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH17CLP502

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: 9 decanted: (Y/N) N Date Extracted: 11/06/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/02/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.6

Number TICs found: 4

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
~~1.~~	~~ALDOL CONDENSATION PRODUCT~~	~~9.07~~	~~270~~	~~ABJ~~ R
~~2.~~	~~ALDOL CONDENSATION PRODUCT~~	~~9.80~~	~~870~~	~~ABJ~~ R
~~3.~~	~~ALDOL CONDENSATION PRODUCT~~	~~10.04~~	~~210~~	~~ABJ~~ R
4.	ALKANE @ C30	36.51	120	J

6/18/93

TC 6/16/93

9613404.0876

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B07GN6

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11504

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GI14CLP504

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: 5 decanted: (Y/N) N Date Extracted: 11/06/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/10/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	350	U
111-44-4	bis(2-Chloroethyl)Ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2'-oxybis(1-Chloropropane)	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-Di-n-Propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
111-91-1	bis(2-Chloroethoxy)Methane	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-Methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	840	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	840	U
131-11-3	Dimethyl Phthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
99-09-2	3-Nitroaniline	840	U
83-32-9	Acenaphthene	350	U

6/16/9

23

9613404.0877

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B07GN6

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11504

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GI14CLP504

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: 5 decanted: (Y/N) N Date Extracted: 11/06/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/10/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	840	U
100-02-7	4-Nitrophenol	840	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	22	J
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U
100-01-6	4-Nitroaniline	840	U
534-52-1	4,6-Dinitro-2-Methylphenol	840	U
86-30-6	N-Nitrosodiphenylamine (1)	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	840	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
86-74-8	Carbazole	350	U
84-74-2	Di-n-Butylphthalate	66	J
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3'-Dichlorobenzidine	350	U
56-55-3	Benzo(a)Anthracene	350	U
218-01-9	Chrysene	350	U
117-81-7	bis(2-Ethylhexyl)Phthalate	350 ~~58~~	~~BJ~~ U
117-84-0	Di-n-Octyl Phthalate	350	U
205-99-2	Benzo(b)Fluoranthene	350	U
207-08-9	Benzo(k)Fluoranthene	350	U
50-32-8	Benzo(a)Pyrene	350	U
193-39-5	Indeno(1,2,3-cd)Pyrene	350	U
53-70-3	Dibenz(a,h)Anthracene	350	U
191-24-2	Benzo(g,h,i)Perylene	350	U

(1) - Cannot be separated from Diphenylamine

29

FORM I SV-2

6/16/93 3/90

9613404.0878

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B07GN6

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11504

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GI14CLP504

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: 5 decanted: (Y/N) N Date Extracted: 11/06/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/10/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.0

Number TICs found: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
~~1.~~	~~ALDOL CONDENSATION PRODUCTS~~	~~9.82~~	~~160~~	~~ABJ~~ R
~~2.~~	~~ALDOL CONDENSATION PRODUCTS~~	~~10.47~~	~~660~~	~~ABJ~~ R
~~3.~~	~~ALDOL CONDENSATION PRODUCTS~~	~~10.67~~	~~270~~	~~ABJ~~ R
4.	ALKANE @ C29	35.22	210	J
5.	ALKANE @ C31	39.46	120	J

6/18/93

6/16/93

9613404.0879

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B07GN9

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11505

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GI15CLP505

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/06/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/10/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-Di-n-Propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy)Methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-Methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	800	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	800	U
131-11-3	Dimethyl Phthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	800	U
83-32-9	Acenaphthene	330	U

6/16/93

9613404.0880

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B07GN9

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11505

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GI15CLP505

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/06/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/10/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	800	U
100-02-7	4-Nitrophenol	800	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	800	U
534-52-1	4,6-Dinitro-2-Methylphenol	800	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	800	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-Butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)Anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)Phthalate	330	U
117-84-0	Di-n-Octyl Phthalate	330	U
205-99-2	Benzo(b)Fluoranthene	330	U
207-08-9	Benzo(k)Fluoranthene	330	U
50-32-8	Benzo(a)Pyrene	330	U
193-39-5	Indeno(1,2,3-cd)Pyrene	330	U
53-70-3	Dibenz(a,h)Anthracene	330	U
191-24-2	Benzo(g,h,i)Perylene	330	U

(1) - Cannot be separated from Diphenylamine

6/16/93

9613404.0881
1F

EPA SAMPLE NO.

B07GN9

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: DATACHEM LABS Contract: 3534

Lab Code: DATAC Case No.: WHC38 SAS No.: _____ SDG No.: WHC038

Matrix: (soil/water) SOIL Lab Sample ID: CLP11505

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GI15CLP505

Level: (low/med) LOW Date Received: 10/29/92

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/06/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/10/92

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
~~1.~~	~~ALDOL CONDENSATION PRODUCT~~	~~9.59~~	~~96~~	~~ABJ~~ R
~~2.~~	~~ALDOL CONDENSATION PRODUCT~~	~~10.27~~	~~410~~	~~ABJ~~ R

6/8/93

6/16/93

9613404.0882

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B07GM7

Lab Name:DATACHEM LABORATORIES Contract:68-D1-0080

Lab Code:DATAC Case No.WHC38 SAS No.: SDG No.:WHC03

Matrix: (soil/water)SOIL Lab Sample ID: CLP-11501

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

% Moisture: 11 decanted: (Y/N) N Date Received: 10/29/92

Extraction: (SepF/Cont/Sonc)SONC Date Extracted:11/06/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/24/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg)UG/KG	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC(Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.7	U
72-55-9	4,4'-DDE	78.	
72-20-8	Endrin	0.57	JP
33213-65-9	Endosulfan II	3.7	U
72-54-8	4,4'-DDD	1.3	JP
1031-07-8	Endosulfan sulfate	3.7	U
50-29-3	4,4'-DDT	24.	
72-43-5	Methoxychlor	390.	B
53494-70-5	Endrin ketone	3.7	U
7421-36-3	Endrin aldehyde	3.7	U
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190.	U
12674-11-2	Aroclor-1016	37.	U
11104-28-2	Aroclor-1221	75.	U
11141-16-5	Aroclor-1232	37.	U
53469-21-9	Aroclor-1242	37.	U
12672-29-6	Aroclor-1248	37.	U
11097-69-1	Aroclor-1254	37.	U
11096-82-5	Aroclor-1260	37.	U

RS 6/16/93

9613404.0883

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B07GM8

Lab Name:DATACHEM LABORATORIES Contract:68-D1-0080

Lab Code:DATAC Case No.WHC38 SAS No.: SDG No.:WHC03

Matrix: (soil/water)SOIL Lab Sample ID: CLP-11503

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

% Moisture: 14 decanted: (Y/N) N Date Received: 10/29/92

Extraction: (SepF/Cont/Sonc)SONC Date Extracted:11/06/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/24/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg)UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC(Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.8	U
72-55-9	4,4'-DDE	140.	
72-20-8	Endrin	0.85	JP
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	1.5	JP
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	46.	
72-43-5	Methoxychlor	3.0	~~PB~~ U
53494-70-5	Endrin ketone	3.8	U
7421-36-3	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200.	U
12674-11-2	Aroclor-1016	38.	U
11104-28-2	Aroclor-1221	78.	U
11141-16-5	Aroclor-1232	38.	U
53469-21-9	Aroclor-1242	38.	U
12672-29-6	Aroclor-1248	38.	U
11097-69-1	Aroclor-1254	38.	U
11096-82-5	Aroclor-1260	38.	U

6/16/93

9613404.0884

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B07GN3

Lab Name:DATACHEM LABORATORIES Contract:68-D1-0080

Lab Code:DATAC Case No.WHC38 SAS No.: SDG No.:WHC03

Matrix: (soil/water)SOIL Lab Sample ID: CLP-11502

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

% Moisture: 9 decanted: (Y/N) N Date Received: 10/29/92

Extraction: (SepF/Cont/Sonc)SONC Date Extracted:11/06/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/24/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N)Y pH: 8.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg)UG/KG	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC(Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.6	U
72-55-9	4,4'-DDE	6.2	
72-20-8	Endrin	3.6	U
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	3.6	U
1031-07-8	Endosulfan sulfate	3.6	U
50-29-3	4,4'-DDT	3.0	J
72-43-5	Methoxychlor	3.0	~~PB~~ U
53494-70-5	Endrin ketone	3.6	U
7421-36-3	Endrin aldehyde	3.6	U
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190.	U
12674-11-2	Aroclor-1016	36.	U
11104-28-2	Aroclor-1221	74.	U
11141-16-5	Aroclor-1232	36.	U
53469-21-9	Aroclor-1242	36.	U
12672-29-6	Aroclor-1248	36.	U
11097-69-1	Aroclor-1254	36.	U
11096-82-5	Aroclor-1260	36.	U

6/16/93

9613404.0885

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B07GN6

Lab Name:DATACHEM LABORATORIES Contract:68-D1-0080

Lab Code:DATAC Case No.WHC38 SAS No.: SDG No.:WHC03

Matrix: (soil/water)SOIL Lab Sample ID: CLP-11504

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

% Moisture: 5 decanted: (Y/N) N Date Received: 10/29/92

Extraction: (SepF/Cont/Sonc)SONC Date Extracted:11/06/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/24/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N)Y pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg)UG/KG	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC(Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.5	U
72-55-9	4,4'-DDE	3.3	J
72-20-8	Endrin	3.5	U
33213-65-9	Endosulfan II	3.5	U
72-54-8	4,4'-DDD	3.5	U
1031-07-8	Endosulfan sulfate	3.5	U
50-29-3	4,4'-DDT	2.9	J
72-43-5	Methoxychlor	5.7	~~B~~ U
53494-70-5	Endrin ketone	3.5	U
7421-36-3	Endrin aldehyde	3.5	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180.	U
12674-11-2	Aroclor-1016	35.	U
11104-28-2	Aroclor-1221	71.	U
11141-16-5	Aroclor-1232	35.	U
53469-21-9	Aroclor-1242	35.	U
12672-29-6	Aroclor-1248	35.	U
11097-69-1	Aroclor-1254	35.	U
11096-82-5	Aroclor-1260	35.	U

6/16/93

FORM I PEST 3/90

9613404.0886

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B07GN9

Lab Name:DATACHEM LABORATORIES Contract:68-D1-0080

Lab Code:DATAC Case No.WHC38 SAS No.: SDG No.:WHC03

Matrix: (soil/water)SOIL Lab Sample ID: CLP-11505

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

% Moisture: 0 decanted: (Y/N) N Date Received: 10/29/92

Extraction: (SepF/Cont/Sonc)SONC Date Extracted:11/06/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/25/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg)UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC(Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	1.5	~~PB~~ U
53494-70-5	Endrin ketone	3.3	U
7421-36-3	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170.	U
12674-11-2	Aroclor-1016	33.	U
11104-28-2	Aroclor-1221	67.	U
11141-16-5	Aroclor-1232	33.	U
53469-21-9	Aroclor-1242	33.	U
12672-29-6	Aroclor-1248	33.	U
11097-69-1	Aroclor-1254	33.	U
11096-82-5	Aroclor-1260	33.	U

6/16/93

FORM I PEST 3/90

9613404.0887

DATA CHEM LABORATORIES

ANALYTICAL REPORT

Form ARF-AL
Page 1 of 5
Part 1 of 4

Date _____
Agency Identification Number SF-1350-IK
Account No. 3534C

Westinghouse Hanford Company
2355 Stevens Drive
MSIN T6-08
Richland, WA 99352
Attention: Jeanette Duncan

DEC 1992 RECEIVED OSM DMO

FAX (509) 373-3992
Telephone (509) 373-3225

Sampling Collection and Shipment

Sampling Site _____ Date of Collection October 20, 1992

Date Samples Received at Laboratory October 29, 1992

Analysis

Method of Analysis EPA 8141

Date(s) of Analysis November 09, 1992

Analytical Results

Field Sample Number	Laboratory Number	Sample Type	Azinphos Methyl ug/kg GC/FPD	Bolstar ug/kg GC/FPD	Chlorpyrifos ug/kg GC/FPD	Coumaphos ug/kg GC/FPD	Demeton-S ug/kg GC/FPD	Diazinon ug/kg GC/FPD	Dichlorvos ug/kg GC/FPD	Disulfoton ug/kg GC/FPD
BL-90684-1	BL-90684-1	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07GM7	CLP 11501	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07GN3	CLP 11502	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07GM8	CLP 11503	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07GN6	CLP 11504	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07GN6MS	CLP 11504MS	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	62
B07GN6MSD	CLP 11504MSD	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	66
B07GN9	CLP 11505	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
QC-90684-1	QC-90684-1	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	72
* Limit of Detection				6.7	6.7	6.7	6.7	6.7	6.7	6.7

† See comment on last page.
ND Parameter not detected.
NR Parameter not requested.

** See comment on last page.
( ) Parameter between LOD and LOQ.

Vicki Hoe Lin Tsai 6/16/93
Analyst: Vicki Hoe-Lin Tsai

Reviewer:

Laboratory Supervisor: Jose C. Danino

960 West LeVoy Drive / Salt Lake City, Utah 84123-2547 / (801) 266-7700
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DATA CHEM LABORATORIES

ANALYTICAL REPORT

Form ARF-AL
Page 2 of 5
Part 2 of 4

Date _____
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Sampling Collection and Shipment

Sampling Site _____ Date of Collection October 20, 1992

Date Samples Received at Laboratory October 29, 1992

Analysis

Method of Analysis EPA 8141

Date(s) of Analysis November 09, 1992

Analytical Results

Field Sample Number	Laboratory Number	Sample Type	Ethoprop ug/kg GC/FPD	Fensulfothion ug/kg GC/FPD	Fenthion ug/kg GC/FPD	Merphos ug/kg GC/FPD	Mevinphos ug/kg GC/FPD	Naled ug/kg GC/FPD	Parathion methyl ug/kg GC/FPD	Phorate ug/kg GC/FPD
BL-90684-1	BL-90684-1	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07GM7	CLP 11501	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07GN3	CLP 11502	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07GM8	CLP 11503	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07GN6	CLP 11504	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07GN6MS	CLP 11504MS	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	63	74
B07GN6MSD	CLP 11504MSD	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	69	72
B07GN9	CLP 11505	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
QC-90684-1	QC-90684-1	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	74	79
* Limit of Detection			6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7

† See comment on last page.
ND Parameter not detected.
NR Parameter not requested.
** See comment on last page.
( ) Parameter between LOD and LOQ.

6/16/93

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DATA CHEM LABORATORIES

ANALYTICAL REPORT

Date _____
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Sampling Collection and Shipment

Sampling Site _____ Date of Collection October 20, 1992

Date Samples Received at Laboratory October 29, 1992

Analysis

Method of Analysis EPA 8141

Date(s) of Analysis November 09, 1992

Analytical Results

Field Sample Number	Laboratory Number	Sample Type	Ronnel ug/kg GC/FPD	Stirophos ug/kg GC/FPD	Dimethoate ug/kg GC/FPD	EPN ug/kg GC/FPD	Malathion ug/kg GC/FPD	Monocrotophos ug/kg GC/FPD	Parathion ug/kg GC/FPD	SULPOTEP ug/kg GC/FPD
BL-90684-1	BL-90684-1	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07GM7	CLP 11501	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07GN3	CLP 11502	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07GM8	CLP 11503	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07GN6	CLP 11504	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07GN6MS	CLP 11504MS	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07GN6MSD	CLP 11504MSD	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07GN9	CLP 11505	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
QC-90684-1	QC-90684-1	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
* Limit of Detection			6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7

† See comment on last page.
ND Parameter not detected.
NR Parameter not requested.

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( ) Parameter between LOD and LOQ.

6/16/93

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DATA CHEM LABORATORIES

ANALYTICAL REPORT

Form ARF-AL
Page 4 of 5
Part 4 of 4

Date _____
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Sampling Collection and Shipment

Sampling Site _____ Date of Collection October 20, 1992

Date Samples Received at Laboratory October 29, 1992

Analysis

Method of Analysis EPA 8141

Date(s) of Analysis November 09, 1992

Analytical Results

Field Sample Number	Laboratory Number	Sample Type	TEPP ug/kg GC/FPD	TPP ug/kg						
BL-90684-1	BL-90684-1	SOIL	ND*	258						
B07GM7	CLP 11501	SOIL	ND*	139						
B07GN3	CLP 11502	SOIL	ND*	112						
B07GM8	CLP 11503	SOIL	ND*	166						
B07GN6	CLP 11504	SOIL	ND*	236						
B07GN6MS	CLP 11504MS	SOIL	ND*	161						
B07GN6MSD	CLP 11504MSD	SOIL	ND*	241						
B07GN9	CLP 11505	SOIL	ND*	347						
QC-90684-1	QC-90684-1	SOIL	ND*	272						
* Limit of Detection			6.7	6.7						

† See comment on last page.
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DATA CHEM LABORATORIES

ANALYTICAL REPORT

Form ARF-AL
Page 1 of 3
Part 1 of 2

Date _____
Agency Identification Number SF-1350-HK
Account No. 3534C

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Sampling Collection and Shipment

Sampling Site _____ Date of Collection October 20, 1992

Date Samples Received at Laboratory October 29, 1992

Analysis

Method of Analysis EPA 8150

Date(s) of Analysis November 22, 1992

Analytical Results

Field Sample Number	Laboratory Number	Sample Type	2,4-D ug/kg	2,4-DB ug/kg	2,4,5-T ug/kg	2,4,5-TP (silvex) ug/kg	Dalapon ug/kg	Dicamba ug/kg	Dichloroprop ug/kg	Dinoseb ug/kg
BL-90683-1	BL-90683-1	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
QC-90683-1	QC-90683-1	SOIL	83	ND*	46	46	ND*	ND*	ND*	ND*
B07GM7	CLP 11501	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07GN3	CLP 11502	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07GM8	CLP 11503	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07GM8MS	CLP 11503MS	SOIL	78	ND*	44	44	ND*	ND*	ND*	ND*
B07GM8MSD	CLP 11503MSD	SOIL	82	ND*	46	45	ND*	ND*	ND*	ND*
B07GN6	CLP 11504	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
B07GN9	CLP 11505	SOIL	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
* Limit of Detection			20	100	10	10	100	10	20	20

† See comment on last page.
ND Parameter not detected.
NR Parameter not requested.
** See comment on last page.
( ) Parameter between LOD and LOQ.

6/16/93

Analyst: Guangyue Liu

Reviewer: John Meikle

Laboratory Supervisor: Jose C. Danino

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DATA CHEM LABORATORIES

ANALYTICAL REPORT

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Page 2 of 3
Part 2 of 2

Date _____
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Sampling Collection and Shipment

Sampling Site _____ Date of Collection October 20, 1992

Date Samples Received at Laboratory October 29, 1992

Analysis

Method of Analysis EPA 8150

Date(s) of Analysis November 22, 1992

Analytical Results

Field Sample Number	Laboratory Number	Sample Type	MCPA ug/kg	MCPP ug/kg	DCAA ug/kg					
BL-90683-1	BL-90683-1	SOIL	ND*	ND*	61					
QC-90683-1	QC-90683-1	SOIL	ND*	ND*	55					
B07GM7	CLP 11501	SOIL	ND*	ND*	50					
B07GN3	CLP 11502	SOIL	ND*	ND*	60					
B07GM8	CLP 11503	SOIL	ND*	ND*	56					
B07GM8MS	CLP 11503MS	SOIL	ND*	ND*	54					
B07GM8MSD	CLP 11503MSD	SOIL	ND*	ND*	56					
B07GN6	CLP 11504	SOIL	ND*	ND*	49					
B07GN9	CLP 11505	SOIL	ND*	ND*	49					
* Limit of Detection			5000	5000	SURR.					

† See comment on last page.
ND Parameter not detected.
NR Parameter not requested.

** See comment on last page.
( ) Parameter between LOD and LOQ.

6/16/93

9613404.0893

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

B07GM7
M11501

Lab Name: DataChem Laboratories Contract: WHC

Lab Code: DATAC Case No.: WHC38 SAS No.: SDG No.: WHCI38

Matrix (soil/water): SOIL Lab Sample ID: CLP11501

Level (low/med): LOW Date Received: 10/29/92

% Solids: 84.4

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14400			P
7440-36-0	Antimony	14.2	U	N	P
7440-38-2	Arsenic	5.6			F
7440-39-3	Barium	401			P
7440-41-7	Beryllium	0.92	B		P
7440-43-9	Cadmium	1.2	U		P
7440-70-2	Calcium	17300			P
7440-47-3	Chromium	14.8			P
7440-48-4	Cobalt	8.2	B		P
7440-50-8	Copper	29.5			P
7439-89-6	Iron	19000			P
7439-92-1	Lead	15.7		NS	F
7439-95-4	Magnesium	7480			P
7439-96-5	Manganese	299		*	P
7439-97-6	Mercury	0.06	U		CV
7440-02-0	Nickel	8.2	B		P
7440-09-7	Potassium	1560			P
7782-49-2	Selenium	0.24	U	NW	F
7440-22-4	Silver	0.95	U		P
7440-23-5	Sodium	590	B	E	P
7440-28-0	Thallium	0.32	B		F
7440-62-2	Vanadium	43.3			P
7440-66-6	Zinc	41.9			P
	Cyanide				NR

6/16/93

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:
E - ICP SERIAL DILUTION IS OUTSIDE OF CONTROL LIMITS

2

FORM I - IN

9613404.0894

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

B076N3
~~M11502~~

Lab Name: DataChem Laboratories Contract: WHC

Lab Code: DATAC Case No.: WHC38 SAS No.: SDG No.: WHCI38

Matrix (soil/water): SOIL Lab Sample ID: CLP11502

Level (low/med): LOW Date Received: 10/29/92

% Solids: 90.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10500			P
7440-36-0	Antimony	13.3	U	N	P
7440-38-2	Arsenic	6.8			F
7440-39-3	Barium	308			P
7440-41-7	Beryllium	0.78	B		P
7440-43-9	Cadmium	1.1	U		P
7440-70-2	Calcium	23900			P
7440-47-3	Chromium	12.6			P
7440-48-4	Cobalt	8.8	B		P
7440-50-8	Copper	16.3			P
7439-89-6	Iron	19200			P
7439-92-1	Lead	11.4		NS	F
7439-95-4	Magnesium	6180			P
7439-96-5	Manganese	341		*	P
7439-97-6	Mercury	0.06	U		CV
7440-02-0	Nickel	9.9			P
7440-09-7	Potassium	1250			P
7782-49-2	Selenium	0.22	U	NW	F
7440-22-4	Silver	0.89	U		P
7440-23-5	Sodium	516	B	E	P
7440-28-0	Thallium	0.22	U		F
7440-62-2	Vanadium	48.2			P
7440-66-6	Zinc	38.5			P
	Cyanide				NR

6/16/93

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:
E - ICP SERIAL DILUTION IS OUTSIDE OF CONTROL LIMITS

3

9613404.0895

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

3076M8
~~M11503~~

Lab Name: DataChem Laboratories Contract: WHC

Lab Code: DATAC Case No.: WHC38 SAS No.: SDG No.: WHCI38

Matrix (soil/water): SOIL Lab Sample ID: CLP11503

Level (low/med): LOW Date Received: 10/29/92

% Solids: 83.9

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14400			P
7440-36-0	Antimony	14.3	U	N	P
7440-38-2	Arsenic	5.5			F
7440-39-3	Barium	431			P
7440-41-7	Beryllium	0.88	B		P
7440-43-9	Cadmium	1.2	U		P
7440-70-2	Calcium	17600			P
7440-47-3	Chromium	13.8			P
7440-48-4	Cobalt	9.0	B		P
7440-50-8	Copper	21.5			P
7439-89-6	Iron	19100			P
7439-92-1	Lead	15.0		NS	F
7439-95-4	Magnesium	7400			P
7439-96-5	Manganese	334		*	P
7439-97-6	Mercury	0.06	U		CV
7440-02-0	Nickel	13.6			P
7440-09-7	Potassium	1590			P
7782-49-2	Selenium	0.24	U	NW	F
7440-22-4	Silver	0.95	U		P
7440-23-5	Sodium	590	B	E	P
7440-28-0	Thallium	0.24	U		F
7440-62-2	Vanadium	43.3			P
7440-66-6	Zinc	45.6			P
	Cyanide				NR

6/16/93

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:
E - ICP SERIAL DILUTION IS OUTSIDE OF CONTROL LIMITS

9613404.0896

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

B07GN6
~~M11504~~

Lab Name: DataChem Laboratories Contract: WHC

Lab Code: DATAC Case No.: WHC38 SAS No.: SDG No.: WHCI38

Matrix (soil/water): SOIL Lab Sample ID: CLP11504

Level (low/med): LOW Date Received: 10/29/92

% Solids: 94.9

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13300			P
7440-36-0	Antimony	12.6	U	N	P
7440-38-2	Arsenic	8.1			F
7440-39-3	Barium	114			P
7440-41-7	Beryllium	0.54	B		P
7440-43-9	Cadmium	1.1	U		P
7440-70-2	Calcium	14600			P
7440-47-3	Chromium	19.0			P
7440-48-4	Cobalt	10.8			P
7440-50-8	Copper	21.1			P
7439-89-6	Iron	23400			P
7439-92-1	Lead	15.0		NS	F
7439-95-4	Magnesium	7580			P
7439-96-5	Manganese	466		*	P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	19.2			P
7440-09-7	Potassium	2130			P
7782-49-2	Selenium	0.21	U	NW	F
7440-22-4	Silver	0.84	U		P
7440-23-5	Sodium	588	B	E	P
7440-28-0	Thallium	0.21	U		F
7440-62-2	Vanadium	44.2			P
7440-66-6	Zinc	58.6			P
	Cyanide				NR

6/16/93

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:
E - ICP SERIAL DILUTION IS OUTSIDE OF CONTROL LIMITS

9613404.0897

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

B07GN9
~~M11505~~

Lab Name: DataChem Laboratories Contract: WHC

Lab Code: DATAC Case No.: WHC38 SAS No.: SDG No.: WHCI38

Matrix (soil/water): SOIL Lab Sample ID: CLP11505

Level (low/med): LOW Date Received: 10/29/92

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	131			P	
7440-36-0	Antimony	12.0	U	N	P	
7440-38-2	Arsenic	0.40	U		F	
7440-39-3	Barium	1.4	B		P	
7440-41-7	Beryllium	0.40	U		P	
7440-43-9	Cadmium	1.0	U		P	
7440-70-2	Calcium	29.9	B		P	
7440-47-3	Chromium	1.8	U		P	
7440-48-4	Cobalt	2.2	U		P	
7440-50-8	Copper	1.4	U		P	
7439-89-6	Iron	170			P	
7439-92-1	Lead	0.65		N	F	
7439-95-4	Magnesium	20.8	B		P	
7439-96-5	Manganese	3.9		*	P	
7439-97-6	Mercury	0.05	U		CV	
7440-02-0	Nickel	5.8	U		P	
7440-09-7	Potassium	206	U		P	
7782-49-2	Selenium	0.23	~~B~~	~~NW~~	F	u
7440-22-4	Silver	0.80	U		P	
7440-23-5	Sodium	11.8	~~B~~	~~E~~	P	u
7440-28-0	Thallium	0.20	U		F	
7440-62-2	Vanadium	2.0	U		P	
7440-66-6	Zinc	1.8	U		P	
	Cyanide				NR	

6/16/93

Color Before: WHITE Clarity Before: Texture: COARSE

Color After: COLORLESS Clarity After: Artifacts:

Comments:
E - ICP SERIAL DILUTION IS OUTSIDE OF CONTROL LIMITS

9613404.0898

DATA CHEM LABORATORIES

ENVIRONMENTAL SOIL REPORT

Form EPRS-A
Page 1 of 2
Part 1 of 1

Date _____
Agency Identification Number SF-1350-FK
Account No. 3534C

Westinghouse Hanford Company
2355 Stevens Drive
MSIN T6-08
Richland, WA 99352
Attention: Jeanette Duncan

DEC 1992 RECEIVED OSM DMO

Telephone (509) 373-3225

Sampling Collection and Shipment

Sampling Site _____ Date of Collection October 20, 1992

Date Samples Received at Laboratory October 29, 1992

Analytical Results

Parameter Name / Analysis Date / Units / Method / Prep Method	Field Number / Lab Number	B07GM7 CLP 11501	B07GN3 CLP 11502	B07GM8 CLP 11503	B07GN6 CLP 11504	B07GN9 CLP 11505			* Limit of Detection
Total Petroleum Hydrocarbons 11/16/1992 µg/g 418.1 [1] 3550 [2]		ND*	ND*	50	ND*	ND*			10

† See comment on last page.
ND Parameter not detected.
NR Parameter not requested.
1 Analyses completed on or before this date.

** Parameter not analyzed (See comment page).
( ) Parameter between LOD and LOQ.
[ ] Method Reference (See comments page.)

Analyst: David W. Thomas 6/16/93

Reviewer: Rosemary H. Hanks

Laboratory Supervisor: Norman K. Christensen

960 West LeVoy Drive / Salt Lake City, Utah 84123-2547 / (801) 266-7700
A Sorenson Company

9613404.0899

ATTACHMENT 2

DATA VALIDATION SUPPORTING DOCUMENTATION

DATA QUALIFICATION SUMMARY - FORM B-7

B07GM7-DAT-205

SDG:	REVIEWER: TMS	DATE: 6-16-93	PAGE 1 OF 1
COMMENTS:			
COMPOUND	QUALIFIER	SAMPLES AFFECTED	REASON
Acetone	U	B07GM7	Contaminant in Blank
	U	B07GM8	
	U	B07GN3	
	U	B07GN6	
	U	B07GN9	
Bis(2-ethylhexyl)-			
phthalate	U	B07GM7	Contaminant in Blank
	U	B07GM8	
	U	B07GN3	
	U	B07GN6	
Methoxychlor	U	B07GM8	Contaminant in Blank
	U	B07GN3	
	U	B07GN6	
	U	B07GN9	
Selenium	U	B07GN9	Contaminant in Blank
Sodium	U	B07GN9	"

B07GM7-DAT-205

BLANK AND SAMPLE DATA SUMMARY - FORM B-3

SDG: | REVIEWER: T. Stapp | DATE: 6-16-93 | PAGE 1 OF 1

COMMENTS:

SAMPLE ID	COMPOUND	RESULT	Q	RT	UNITS	5X RESULT	10X RESULT	SAMPLES AFFECTED	QUALIFIER
VBLK01	Acetone	44			ug/kg		440	B07GM7	34 U
		"			"		"	B07GM8	34 U
		"			"		"	B07GN3	32 U
		"			"		"	B07GN6	24 U
		"			"		"	B07GN9	21 U
	2-Hexanone	—			—	—	—	None	—
SBLK01	bis(2-ethylhexyl)phthalate	130			ug/kg		1300	B07GM7	370 U
		"			"		"	B07GM8	380 U
		"			"		"	B07GN3	360 U
		"			"		"	B07GN6	350 U
PBLK2S	Methoxychlor	~~8~~ 3			ug/kg	15 ~~30~~		B07GM8	U
		"			"	"		B07GN3	U
		"			"	"		B07GN6	U
		"			"	"		B07GN9	U
ICB	Selenium	0.42			mg/kg	2.1		B07GN9	0.23 U
Prep.Blank	Sodium	11.4			"	57.2		B07GN9	11.8 U

9613404.0001
OWEC-SD-EN-SPP-002, Rev. 1

9613404.0902

DON'T SAY IT --- *Write It!*

DATE:

TO: FILE

FROM: PAT REICH

Telephone:

cc:

SUBJECT: DATA PACKAGE ADDENDUM

THIS ADDENDUM HAS BEEN SUBMITTED BY DATACHEM AND ADDED TO THIS DATA PACKAGE IN RESPONSE TO A VALIDATOR REQUEST FOR ADDITIONAL RAW DATA NEEDED TO COMPLETE BOA VALIDATION.