9613445.2718

0044335

BOOZP2-DAT-117 41

DATA CHEM LABORATORIES

ENVIRONMENTAL SOIL REPORT

Form EPRS-A
Page 1 of 3
Part 1 of 2

Date 8/5/91
Agency Identification Number S91-0513-AD
Account No. 3534C

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

Telephone (509) 373-3225

AUG 1991 RECEIVED EDMC

FEB 1996 RECEIVED EDMC

Sampling Collection and Shipment

Sampling Site 100N-SS-28 Date of Collection July 16, 1991

Date Samples Received at DataChem July 19, 1991

Analytical Results

Parameter Name / Analysis Date / Method / Prep Method / Units	Field Number / Lab Number	BOOZP2 EK 2605	BOOZP3 EK 2606	BOOZP4 EK 2607	BOOZP6 EK 2609	BOOZN6 EK 2611	BOOZN7 EK 2612	BOOZN7 DUP EK 2613	BOOZP0 EK 2614
Total Lead 07/30/1991 7420 [1] 3050 [1]	µg/gram	8.	10.	8.	ND*	8.	5.	5.	ND*

† 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.)

Tanya Cheklin
Analyst: Tanya Cheklin

Kristie Bitner
Reviewer: Kristie F. Bitner

Brent E. Stephens
Laboratory Supervisor: Brent E. Stephens

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

201

9613445.2719

DATA CHEM LABORATORIES

ENVIRONMENTAL SOIL REPORT

Date 8/5/91
Agency Identification Number S91-0513-AD
Account No. 3534C

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

Telephone (509) 373-3225

Sampling Collection and Shipment

Sampling Site 100N-SS-28 Date of Collection July 16, 1991

Date Samples Received at DataChem July 19, 1991

Analytical Results

Parameter Name / Analysis Date / Units / Method / Prep Method	Field Number / Lab Number	B00XP1 / EK 2615							* Limit of Detection
Total Lead / 07/30/1991 / µg/gram / 7420 [1] / 3050 [1]		7.							2.

† 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.)

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

ENVIRONMENTAL SOIL REPORT

Date 8/5/91
Agency Identification Number S91-0513-AD

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

[1] SW-846 "Test Methods for Evaluating Solid Waste", September 1986.

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9613445.2721

100N-SS-28

DATA CHEM LABORATORIES

ANALYTICAL REPORT

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

Date 7/29/91
Agency Identification Number S91-0513-BD
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

4 AUG 1991 RECEIVED DATA RECEIPT

Sampling Collection and Shipment

Sampling Site 100N-SS-28 Date of Collection July 16, 1991

Date Samples Received at DataChem July 19, 1991

Analysis

Method of Analysis 8015MOD

Date(s) of Analysis July 23, 1991

Analytical Results

Field Sample Number	DataChem Lab Number	Sample Type	TPH-Gasoline µg/g							
BOOZP2	EK 2605	SOIL	18000							
BOOZP3	EK 2606	SOIL	28000							
BOOZP4	EK 2607	SOIL	33000							
BOOZP6	EK 2609	SOIL	ND*							
BOOZN6	EK 2611	SOIL	26.							
BOOZN7	EK 2612	SOIL	860							
BOOZN7 DUP	EK 2613	SOIL	1100							
BOOZP0	EK 2614	SOIL	ND*							
BOOZP1	EK 2615	SOIL	32000							
* Limit of Detection			5.							

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

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

Thomas N. Bosch
Analyst: Thomas N. Bosch

Terry P. Vayo
Reviewer:

Terry P. Vayo
Laboratory Supervisor: Terry P. Vayo

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

9613445.2722

DATA CHEM LABORATORIES

ANALYTICAL REPORT

Date 7/29/91
Agency Identification Number S91-0513-BD

General Set Comments

No correction was made for the percent moisture content of the soils. TPH for samples EK2611,12, and 13 were characterized as diesel; TPH for samples EK2605-7, and 2615 characterized as primarily diesel with some gasoline characteristics. All samples quantitated using regular gasoline standards only.

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9613445.2723

DATA CHEM LABORATORIES

ANALYTICAL REPORT

AMENDED

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

Date 5-20-93
Agency Identification Number S91-0513-CD
Account No. 3534C

Westinghouse Hanford Company
2355 Stevens Drive
MSIN H4-23 345 Hill Street/300 Area
Richland, WA 99352
Attention: Briana Colley

FAX (509) 372-2106
Telephone (509) 373-3225

MAY 1993 RECEIVED SDLA

Sampling Collection and Shipment

Sampling Site 100N-SS-28 Date of Collection July 16, 1991

Date Samples Received at Laboratory July 19, 1991

Analysis

Method of Analysis Ca DHS

Date(s) of Analysis July 31, 1991

Analytical Results

Client Sample Number	Laboratory Number	Sample Type	TPH-Diesel mg/g							
B00ZP2	EK 2605	SOIL	0.20							
B00ZP3	EK 2606	SOIL	11.							
B00ZP4	EK 2607	SOIL	10.							
B00ZP6	EK 2609	SOIL	ND*							
B00ZN6	EK 2611	SOIL	0.05							
B00ZN7	EK 2612	SOIL	0.24							
B00ZN7 DUP	EK 2613	SOIL	0.18							
B00ZP0	EK 2614	SOIL	ND*							
B00ZP1	EK 2615	SOIL	2.8							
Practical Detection			0.01							

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

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

Analyst: Lawrence E. Miller

Reviewer: Dan Bruch

Laboratory Supervisor: Dan Bruch

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

44

DATA CHEM LABORATORIES

ANALYTICAL REPORT

AMENDED

Date _____

Agency Identification Number S91-0513-CD

General Set Comments

The control spike had 63 % recovery.

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A Sorenson Company

9613446.2725

DATA CHEM LABORATORIES

FAX TRANSMITTAL COVER SHEET

DATE: 5-20-93

TO: Briana Colley

COMPANY: WHC/HASM

FROM: Kevin Griffiths

NUMBER OF PAGES: 3
(Including this page)

ADDITIONAL INFORMATION: There was a typo on the units — old report showed "mg/ml" should have been "mg/g".

FAX OPERATOR: _____

If you do not receive all of the transmission, please call (801) 266-7700.

960 West LeVoy Drive / Salt Lake City, Utah 84123 — 801-266-7700 / FAX: 801-268-9992
4388 Glendale-Milford Road / Cincinnati, OH 45242 — 513-733-5336 / FAX: 513-733-5347

DATACHEM LABORATORIES - A SORENSON COMPANY

46

9613445.2726

100N-SS-26

DATA CHEM LABORATORIES

ANALYTICAL REPORT

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

Date 8/7/91
Agency Identification Number S91-0513-CD
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

AUG 1991 RECEIVED

Sampling Collection and Shipment

Sampling Site 100N-SS-26 Date of Collection July 16, 1991

Date Samples Received at DataChem July 19, 1991

Analysis

Method of Analysis Ca DHS

Date(s) of Analysis July 31, 1991

Analytical Results

Field Sample Number	DataChem Lab Number	Sample Type	TPH-Diesel mg/ml							
BOOZP2	EK 2605	SOIL	0.20							
BOOZP3	EK 2606	SOIL	11.							
BOOZP4	EK 2607	SOIL	10.							
BOOZP6	EK 2609	SOIL	ND*							
BOOZN6	EK 2611	SOIL	0.05							
BOOZN7	EK 2612	SOIL	0.24							
BOOZN7 DUP	EK 2613	SOIL	0.18							
BOOZP0	EK 2614	SOIL	ND*							
BOOZP1	EK 2615	SOIL	2.8							
* Limit of Detection			0.01							

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

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

Analyst: Lawrence E. Miller

Reviewer:

Laboratory Supervisor:

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

47

DATA CHEM LABORATORIES

ANALYTICAL REPORT

Date 8/7/91
Agency Identification Number S91-0513-CD

General Set Comments

The control spike had 63 % recovery.

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A Sorenson Company

9613445.2728

ANALYTICAL REQUEST FORM

DATA CHEM LABORATORIES

1. ☐ **REGULAR Status**

☐ **RUSH Status Requested - ADDITIONAL CHARGE**

RESULTS REQUIRED BY _____ DATE

CONTACT DATACHEM LABS PRIOR TO SENDING SAMPLES.

2. Date 7/18/91 Purchase Order No. _____

3. Company Name Westinghouse Hanford Company

Address P.O. Box 1970 MSIN: T6-08
Richland, Washington 99352

Person to Contact Joan Kessner/Ron Mitchel

Telephone (~~XXX~~ 509) 373-3507/376-5122

Fax Telephone (509) 373-3992

Billing Address (if different from above)

4. **Sample Collection**

Sampling Site 100N-SS-28

Industrial Process U.S.T.

Date of Collection 7/16/91 and 7/17/91

Time Collected _____

Date of Shipment 7/18/91

Chain of Custody No. F-23

5. **REQUEST FOR ANALYSES**

Laboratory Use Only	Client Sample Number	Media Type*	Sample Volume (Liters)	ANALYSES REQUESTED - Use Method Number if Known
EK2605	B00ZP2	SOIL	250 ML	VOA
2605	B00ZP2	SOIL	250 ML	TPH gas/diesel LEAD
2606	B00ZP3	SOIL	250 ML	VOA
2606	B00ZP3	SOIL	250 ML	TPH gas/diesel LEAD
2607	B00ZP4	SOIL	250 ML	VOA
2607	B00ZP4	SOIL	250 ML	TPH gas/diesel LEAD
2608	B00ZP5	SOIL	250 ML	VOA
2609	B00ZP6	SOIL	250 ML	TPH gas/diesel LEAD

*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)

as per Jim Johnston DCH proj mgmt 7-22-91 SNB

☐ OTHER (as specified below)

Comments _____

Possible Contamination and/or Chemical Hazards _____

7. Requested by J. E. Hyatt

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

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205

9613446.2729

ANALYTICAL REQUEST FORM

DATA CHEM LABORATORIES

1. ☐ **REGULAR Status**

☐ **RUSH Status Requested - ADDITIONAL CHARGE**

RESULTS REQUIRED BY _____ DATE

CONTACT DATACHEM LABS PRIOR TO SENDING SAMPLES.

2. Date 7/18/91 Purchase Order No. _____

3. Company Name Westinghouse Hanford Company

Address P.O. Box 1970 MSIN: T6-08

Richland, Washington 99352

Person to Contact Joan Kessner/Ron Mitchel Jeannette

Telephone (509) 373-3507/376-5122

Fax Telephone (509) 373-3992

Billing Address (if different from above)

_____

_____

4. **Sample Collection**

Sampling Site 100N-SS-28

Industrial Process U.S.T.

Date of Collection 7/16/91 and 7/17/91

Time Collected _____

Date of Shipment 7/18/91

Chain of Custody No. F-23

5. **REQUEST FOR ANALYSES**

Laboratory Use Only	Client Sample Number	Media Type*	Sample Volume (Liters)	ANALYSES REQUESTED - Use Method Number if Known
EK 2610	B00ZN6	SOIL	250 ML	VOA
2611	B00ZN6 dup.	SOIL	250 ML	VOA
↓	B00ZN6	SOIL	250 ML	TPH gas & diesel LEAD
	XXXXXX			
EK 2612	B00ZN7	SOIL	250 ML	VOA
↓	B00ZN7	SOIL	250 ML	TPH gas & diesel LEAD
EK 2613	B00ZN7 dup.	SOIL	250 ML	TPH gas & diesel LEAD
EK 2614	B00ZP0	SOIL	250 ML	VOA
↓	B00ZP0	SOIL	250 ML	TPH gas & diesel LEAD
EK 2615	B00ZP1	SOIL	250 ML	VOA
↓	B00ZP1	SOIL	250 ML	TPH gas & diesel LEAD

*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 _____

Possible Contamination and/or Chemical Hazards _____

7. Requested by J. E. Hyatt

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**

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Westinhouse Hanford Company	CHAIN OF CUSTODY F-23

Company Contact RON MITCHELL / JOAN KESSNER Telephone 6-5122 / 3-3507

Sample Collected by JEANNETTE E HYATT JH Date ~~7-17-91~~ JH 7-17-91 / 7-16-91 Time 1320

Sample Locations 100N-SS-28

Ice Chest No. SML-68 Field Logbook and Page No. WHC-N-205 14 pg 44

Remarks

Bill of Lading No. Offsite Property No.

Method of Shipment WHC Shipping

Shipped to DATA CHEM

Sample Identification

B00ZN7		VOA 250mL
B00ZN7		TPH, LEAD 250mL
B00ZN7		TPH, LEAD 250mL
B00ZP0		VOA 250 mL
B00ZP0		TPH, LEAD 250mL
B00ZP1	250mL	JH VOA
B00ZP1	250mL	~~TPH~~ - 2 methods 7-17-91 LEAD
B00ZP2	250mL	VOA
B00ZP2	250mL	TPH - 2 methods LEAD
B00ZP3	250mL	VOA
B00ZP3	250 mL	TPH - 2 method LEAD
B00ZP4	250mL	VOA
B00ZP4	250mL	~~TPH~~ - 2 methods JH 7-17-91 LEAD
B00ZP5	250mL	VOA JH 7-17-91
B00ZP6	250mL	~~TPH~~ - 2 methods LEAD

Chain of Possession

Relinquished by:	Received by:	Date/Time:
JEANNETTE HYATT Jeannette Hyatt	C S McClellan CS McClellan	7-18-91 1210
C.S. McClellan CS McClellan	JH	7-~~17~~ 18-91 / 1330

A-6000-407 (07/89)

207

9613445.2731

Westinhouse Hanford Company	CHAIN OF CUSTODY	F-21

Company Contact RON MITCHELL / JOAN KESSNER Telephone 6-5122 / 3-3507

Sample Collected by JOHN LUCAS Date 7/16/91 Time 1125

Sample Locations 100N-SS-28

Ice Chest No. SML-68 Field Logbook and Page No. WHC-N-349

Remarks

Bill of Lading No. Offsite Property No.

Method of Shipment HAND CARRIED TO 1167 BLDG - EMERY OR SIMILAR TO DATACHEM: OVERNIGHT

Shipped to DATACHEM LABS,

Sample Identification

B00ZN6	VOA	250mL
B00ZN6	U1008030	250 mL
B00Z N6	VOA	250mL

Chain of Possession

Relinquished by:	Received by:	Date/Time:
Jonathan G. Lucas / Jonathan G. Lucas	JEANNETTE E HYATT / Jeannette E Hyatt	7-16-91 1015
JEANNETTE HYATT / Jeannette Hyatt	C.S. McClellan / CSMcClellan	7-18-91 1210
C.S. McClellan / CSMcClellan	SJ Nash	7-19-91 / 1330
Relinquished by:	Received by:	Date/Time:

208

A-6000-407 (07/89)

9613445.2732

DATA CHEM LABORATORIES

August 8, 1991

REPORT INTRODUCTION
ANALYTICAL COMMENTARY

SUBMITTED TO: Ron Mitchell

SUBMITTED BY: Joseph A. Gress

REFERENCE DATA:

Analysis of: 9 soil samples, 2 matrix spikes, and 2 matrix spike duplicates

Method of Analysis: EPA 8240 with modifications

Identification No.: S91-00513DD

DataChem Laboratory No.: EK 2605 through EK 2608, EK 2610 through EK 2612, EK 2614 and EK2615

The above-numbered samples were analyzed for volatile organics using EPA Method 8240 with modifications (SW-846; third edition; September 1986; U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response).

For soil samples EK 2608, 10, 11, and 14 (B00ZP5, N6DUP, N6, and P0) five grams of sample was used. For soil sample EK 2612 (B00ZN7) two and one half grams of sample was used. These samples were heated and directly purged onto a Tekmar 2-phase trap, then desorbed at 180 degrees centigrade under reverse helium flow onto the GC column. The desorbed organics were separated by a 2m x 2mm I.D. glass column packed with 1% SP-1000 on 60/80 mesh Carbopack B. The column oven was programmed from 45 degrees centigrade (held isothermal for 3 minutes) to 220 degrees centigrade at 8 degrees centigrade per minute. The resulting ions were scanned on a Finnigan 5100 GC/MS/DS from 35 amu to 260 amu every three seconds.

The remaining soil samples were ran medium level. Four grams of sample was extracted with ten milliliters of methanol, and five microliters of this extract was purged in five milliliters of reagent water. These samples were then purged, desorbed and analyzed as stated above.

CINCINNATI OFFICE
4388 GLENDALE-MILFORD ROAD
CINCINNATI, OHIO 45242-3706
513 733-5336, FAX 513 733-5347

SALT LAKE OFFICE
960 WEST LeVOY DRIVE
SALT LAKE CITY, UTAH 84123-2547
801 266-7700, FAX 801 268-9992

A SORENSON COMPANY

DENVER OFFICE
5299 DTC BOULEVARD, #500
ENGLEWOOD, COLORADO 80111-3326
303 771-1355, FAX 303 770-0578

An internal standard method of quantitation was used. Internal standards were added to each sample and standard prior to analysis. Five standards were analyzed as prescribed by the method at 20, 50, 100, 150 and 200 ug/Kg. System Performance Check Compounds were checked for a minimum response factor of 0.300, these compounds are chloromethane, bromoform (can be 0.250), 1,1-dichloroethane, chlorobenzene and 1,1,2,2-tetrachloroethane. Response factors from the initial calibration curve are used to calculate percent relative standard deviation (%RSD) for Calibration Check Compounds. These are toluene, 1,1-dichloroethene, chloroform, 1,2-dichloropropane, ethylbenzene, and vinyl chloride, the %RSD must be less than 30%. These Q.C. criteria were met for the initial calibration curve.

Quantitation of each target compound is based on response factors from a 50 ug/Kg continuing calibration standard. Before sample analysis can begin, standardization requirements must be met. The response factors of System Performance Check Compounds must meet the minimum criteria of 0.300, except bromoform at 0.250, and the Calibration Check Compounds must be less than 25% difference with the average response from the initial calibration curve.

Tuning and calibration checks were made prior to sample analysis. A reagent blank was also analyzed prior to sample analysis to certify cleanliness of reagents. Before analysis, blanks were analyzed in each sparging unit to verify the cleanliness of the instrument sampling apparatus.

In addition, the following quality assurance procedures were routine; monitoring of internal standard absolute areas and retention times and measurement of surrogate standard recoveries. For the medium level soils, the surrogate recoveries are not being reported due to the large dilutions performed on these samples.

DataChem Laboratories will maintain a complete record of your data on magnetic tape including the ion chromatograms, mass spectra, and verification of compliance with EPA tuning (BFB).

The results for EPA Method 8240 are reported twice for each sample in the body of the report, first on the Summary Report and again on the Analytical Report (results by sample). The Analytical Report consists of two pages for each sample. Analytical standards have been analyzed for each compound on page one and the quantitative results are presented. The soil sample results were based on dry weight as per EPA method 8240. The unknown compounds have been tentatively identified and are found on page two of the Analytical Report. The amount of each unknown present is estimated by comparison to an internal standard assuming the response factor to be one. Additionally, the footnotes on page two of the Analytical Report have been used to qualify the data reported.

A matrix spike and matrix spike duplicate were analyzed for each matrix. EK 2614 (B00ZP0) was used for the low level analysis and EK 2605 (B00ZP2) was used for the medium level analysis. The analytes 1,1-dichloroethene, trichloroethene, benzene, toluene, and chlorobenzene were spiked into the low level soil sample at 50 ug/Kg. These same analytes were also spiked into the medium level extract, but due to the large dilution they are not being reported on a matrix spike recovery report. The recoveries of the low level spike are tabulated and reported on the last page of the analytical report. The qualifiers "S","SP", and "@" were used throughout the analytical report to indicate spiked analytes. The analytes denoted with an "@" indicate that there is that analyte present in the sample spiked. The values reported for analytes denoted with an "@" have not been corrected for any dilutions.

Joseph A. Gress

ANALYTICAL REPORT FOR SAMPLE No. EK2611

EPA METHOD 8240

TARGET ANALYTE RESULTS

Field Sample ID B00ZN6 Sponsor WESTINGHOUSE HANFORD CO
File ID KM90EK2611 Date of Analysis 07/26/91 Date Received 07/19/91
DataChem SET ID S91-0513DD

Cas. No	COMPOUND	RESULTS (ug/KG)	DETECTION LIMITS (ug/KG)
74-87-3	chloromethane	U	1.6*
74-83-9	bromomethane	U	1.5*
75-01-4	vinyl chloride	U	1.7*
75-00-3	chloroethane	U	1.4*
75-09-2	methylene chloride	U	1.6*
67-64-1	acetone	U	4.3*
75-15-0	carbon disulfide	U	1.6*
75-69-4	trichlorofluoromethane	U	1.5*
75-35-4	1,1-dichloroethene	U	1.2*
75-34-3	1,1-dichloroethane	U	2.1*
540-59-0	total 1,2-dichloroethene	U	1.2*
76-66-3	chloroform	U	1.8*
107-06-2	1,2-dichloroethane	U	2.4*
74-88-4	iodomethane	U	1.5*
107-02-8	acrolein	U	58.*
107-13-1	acrylonitrile	U	43.*
78-93-3	2-butanone	U	3.8*
71-55-6	1,1,1-trichloroethane	U	1.6*
56-23-5	carbon tetrachloride	U	1.5*
108-05-4	vinyl acetate	U	3.5*
75-27-4	bromodichloromethane	U	1.8*
78-87-5	1,2-dichloropropane	U	2.0*
10061-02-5	cis-1,3-dichloropropene	U	3.1*
79-01-6	trichloroethene	U	1.3*
71-43-2	benzene	U	1.6*
124-48-1	dibromochloromethane	U	1.4*
79-00-5	1,1,2-trichloroethane	U	1.1*
10061-02-6	trans-1,3-dichloropropene	U	2.9*
110-75-8	2-chloroethylvinyl ether	U	3.3*
75-25-2	bromoform	U	1.2*
74-95-3	dibromomethane	U	2.5*
764-41-0	trans-1,4-dichloro-2-butene	U	1.7*
108-10-1	4-methyl-2-pentanone	U	3.5*
96-18-4	1,2,3-trichloropropane	U	2.3*
591-78-6	2-hexanone	U	4.1*
79-34-5	1,1,2,2-tetrachloroethane	U	2.0*
127-18-4	tetrachloroethene	U	1.5*
97-63-2	ethyl methacrylate	U	1.9*
108-88-3	toluene	U	1.5*
108-90-7	chlorobenzene	U	1.3*
100-41-4	ethylbenzene	U	1.4*
100-42-5	styrene	U	1.2*
1330-20-7	total xylene	U	1.0*

* current DataChem detection limit

ANALYTICAL REPORT FOR SAMPLE No. EK2611

NON-TARGET ANALYTE RESULTS
Additional Volatiles

Field Sample ID B00ZN6

Cas. No	COMPOUND	Scan Number	Results ug/KG	Footnotes
----------	-----NO UNKNOWNS FOUND----------	----	-----	----

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.

E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.

J Indicates an estimated concentration below the Method Detection Limit.

K The isomer is unknown.

N Analytical standards were not analyzed for this compound.

U Not detected.

W The identification is tentative or closely related to the compound.

9613446.2737

ANALYTICAL REPORT FOR SAMPLE No. EK2608

EPA METHOD 8240

TARGET ANALYTE RESULTS

Field Sample ID B00ZP5 Sponsor WESTINGHOUSE HANFORD CO
File ID KM88EK2608 Date of Analysis 07/26/91 Date Received 07/19/91
DataChem SET ID S91-0513DD

Cas. No	COMPOUND	RESULTS (ug/KG)	DETECTION LIMITS (ug/KG)
74-87-3	chloromethane	U	1.6*
74-83-9	bromomethane	U	1.5*
75-01-4	vinyl chloride	U	1.7*
75-00-3	chloroethane	U	1.4*
75-09-2	methylene chloride	U	1.6*
67-64-1	acetone	5.0	4.3*
75-15-0	carbon disulfide	U	1.6*
75-69-4	trichlorofluoromethane	U	1.5*
75-35-4	1,1-dichloroethene	U	1.2*
75-34-3	1,1-dichloroethane	U	2.1*
540-59-0	total 1,2-dichloroethene	U	1.2*
76-66-3	chloroform	U	1.8*
107-06-2	1,2-dichloroethane	U	2.4*
74-88-4	iodomethane	U	1.5*
107-02-8	acrolein	U	58.*
107-13-1	acrylonitrile	U	43.*
78-93-3	2-butanone	U	3.8*
71-55-6	1,1,1-trichloroethane	U	1.6*
56-23-5	carbon tetrachloride	U	1.5*
108-05-4	vinyl acetate	U	3.5*
75-27-4	bromodichloromethane	U	1.8*
78-87-5	1,2-dichloropropane	U	2.0*
10061-02-5	cis-1,3-dichloropropene	U	3.1*
79-01-6	trichloroethene	U	1.3*
71-43-2	benzene	U	1.6*
124-48-1	dibromochloromethane	U	1.4*
79-00-5	1,1,2-trichloroethane	U	1.1*
10061-02-6	trans-1,3-dichloropropene	U	2.9*
110-75-8	2-chloroethylvinyl ether	U	3.3*
75-25-2	bromoform	U	1.2*
74-95-3	dibromomethane	U	2.5*
764-41-0	trans-1,4-dichloro-2-butene	U	1.7*
108-10-1	4-methyl-2-pentanone	U	3.5*
96-18-4	1,2,3-trichloropropane	U	2.3*
591-78-6	2-hexanone	U	4.1*
79-34-5	1,1,2,2-tetrachloroethane	U	2.0*
127-18-4	tetrachloroethene	U	1.5*
97-63-2	ethyl methacrylate	U	1.9*
108-88-3	toluene	11.	1.5*
108-90-7	chlorobenzene	U	1.3*
100-41-4	ethylbenzene	U	1.4*
100-42-5	styrene	U	1.2*
1330-20-7	total xylene	U	1.0*

* current DataChem detection limit

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ANALYTICAL REPORT FOR SAMPLE No. EK2608

NON-TARGET ANALYTE RESULTS
Additional Volatiles

Field Sample ID B00ZP5

Cas. No	COMPOUND	Scan Number	Results ug/KG	Footnotes
----------	-----NO UNKNOWNS FOUND----------	----	-----	----

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.

E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.

J Indicates an estimated concentration below the Method Detection Limit.

K The isomer is unknown.

N Analytical standards were not analyzed for this compound.

U Not detected.

W The identification is tentative or closely related to the compound.

9613445.2739

ANALYTICAL REPORT FOR SAMPLE No. EK2612

EPA METHOD 8240

TARGET ANALYTE RESULTS

Field Sample ID B00ZN7 Sponsor WESTINGHOUSE HANFORD CO
File ID KM99EK2612 Date of Analysis 07/27/91 Date Received 07/19/91
DataChem SET ID S91-0513DD

Cas. No	COMPOUND	RESULTS (ug/KG)	DETECTION LIMITS (ug/KG)
74-87-3	chloromethane	U	3.2*
74-83-9	bromomethane	U	3.0*
75-01-4	vinyl chloride	U	3.4*
75-00-3	chloroethane	U	2.8*
75-09-2	methylene chloride	U	3.2*
67-64-1	acetone	7.6	8.6*
75-15-0	carbon disulfide	U	3.2*
75-69-4	trichlorofluoromethane	U	3.0*
75-35-4	1,1-dichloroethene	U	2.4*
75-34-3	1,1-dichloroethane	U	4.2*
540-59-0	total 1,2-dichloroethene	U	2.4*
76-66-3	chloroform	U	3.8*
107-06-2	1,2-dichloroethane	U	4.8*
74-88-4	iodomethane	U	3.0*
107-02-8	acrolein	U	116.*
107-13-1	acrylonitrile	U	86.*
78-93-3	2-butanone	U	7.6*
71-55-6	1,1,1-trichloroethane	U	3.2*
56-23-5	carbon tetrachloride	U	3.0*
108-05-4	vinyl acetate	U	7.0*
75-27-4	bromodichloromethane	U	3.6*
78-87-5	1,2-dichloropropane	U	4.0*
10061-02-5	cis-1,3-dichloropropene	U	6.2*
79-01-6	trichloroethene	U	2.6*
71-43-2	benzene	U	3.2*
124-48-1	dibromochloromethane	U	2.8*
79-00-5	1,1,2-trichloroethane	U	2.2*
10061-02-6	trans-1,3-dichloropropene	U	5.8*
110-75-8	2-chloroethylvinyl ether	U	6.6*
75-25-2	bromoform	U	2.4*
74-95-3	dibromomethane	U	5.0*
764-41-0	trans-1,4-dichloro-2-butene	U	3.4*
108-10-1	4-methyl-2-pentanone	U	7.0*
96-18-4	1,2,3-trichloropropane	U	4.6*
591-78-6	2-hexanone	U	8.2*
79-34-5	1,1,2,2-tetrachloroethane	U	4.0*
127-18-4	tetrachloroethene	U	3.0*
97-63-2	ethyl methacrylate	U	3.8*
108-88-3	toluene	U	3.0*
108-90-7	chlorobenzene	U	2.6*
100-41-4	ethylbenzene	U	2.8*
100-42-5	styrene	U	2.4*
1330-20-7	total xylene	1000.	2.0*

* current DataChem detection limit

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ANALYTICAL REPORT FOR SAMPLE No. EK2612

NON-TARGET ANALYTE RESULTS
Additional Volatiles

Field Sample ID B00ZN7

Cas. No	COMPOUND	Scan Number	Results ug/KG	Footnotes
	C8 hydrocarbon	466	110.	ENW
	trimethylhexane isomer	480	370.	ENWK
	C9 hydrocarbon	483	200.	ENW
	C9 hydrocarbon	495	400.	ENW
	C9 cyclic hydrocarbon	497	400.	ENW
	unknown unsat. hydrocarbon	510	440.	EWN
	unknown cyclic hydrocarbon	521	380.	EWN
	C9 hydrocarbon	549	170.	EWN
	C9 hydrocarbon	557	830.	EWN
	unknown branched alkane	566	2800.	EWN

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.

E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.

J Indicates an estimated concentration below the Method Detection Limit.

K The isomer is unknown.

N Analytical standards were not analyzed for this compound.

U Not detected.

W The identification is tentative or closely related to the compound.

9613445.2741

ANALYTICAL REPORT FOR SAMPLE No. EK2614

EPA METHOD 8240

TARGET ANALYTE RESULTS

Field Sample ID B00ZP0 Sponsor WESTINGHOUSE HANFORD CO
File ID KM89EK2614 Date of Analysis 07/26/91 Date Received 07/19/91
DataChem SET ID S91-0513DD

Cas. No	COMPOUND	RESULTS (ug/KG)	DETECTION LIMITS (ug/KG)
74-87-3	chloromethane	U	1.6*
74-83-9	bromomethane	U	1.5*
75-01-4	vinyl chloride	U	1.7*
75-00-3	chloroethane	U	1.4*
75-09-2	methylene chloride	U	1.6*
67-64-1	acetone	U	4.3*
75-15-0	carbon disulfide	U	1.6*
75-69-4	trichlorofluoromethane	U	1.5*
75-35-4	1,1-dichloroethene	U	1.2*
75-34-3	1,1-dichloroethane	U	2.1*
540-59-0	total 1,2-dichloroethene	U	1.2*
76-66-3	chloroform	U	1.8*
107-06-2	1,2-dichloroethane	U	2.4*
74-88-4	iodomethane	U	1.5*
107-02-8	acrolein	U	58.*
107-13-1	acrylonitrile	U	43.*
78-93-3	2-butanone	U	3.8*
71-55-6	1,1,1-trichloroethane	U	1.6*
56-23-5	carbon tetrachloride	U	1.5*
108-05-4	vinyl acetate	U	3.5*
75-27-4	bromodichloromethane	U	1.8*
78-87-5	1,2-dichloropropane	U	2.0*
10061-02-5	cis-1,3-dichloropropene	U	3.1*
79-01-6	trichloroethene	U	1.3*
71-43-2	benzene	U	1.6*
124-48-1	dibromochloromethane	U	1.4*
79-00-5	1,1,2-trichloroethane	U	1.1*
10061-02-6	trans-1,3-dichloropropene	U	2.9*
110-75-8	2-chloroethylvinyl ether	U	3.3*
75-25-2	bromoform	U	1.2*
74-95-3	dibromomethane	U	2.5*
764-41-0	trans-1,4-dichloro-2-butene	U	1.7*
108-10-1	4-methyl-2-pentanone	U	3.5*
96-18-4	1,2,3-trichloropropane	U	2.3*
591-78-6	2-hexanone	U	4.1*
79-34-5	1,1,2,2-tetrachloroethane	U	2.0*
127-18-4	tetrachloroethene	U	1.5*
97-63-2	ethyl methacrylate	U	1.9*
108-88-3	toluene	U	1.5*
108-90-7	chlorobenzene	U	1.3*
100-41-4	ethylbenzene	U	1.4*
100-42-5	styrene	U	1.2*
1330-20-7	total xylene	U	1.0*

* current DataChem detection limit

ANALYTICAL REPORT FOR SAMPLE No. EK2614

NON-TARGET ANALYTE RESULTS
Additional Volatiles

Field Sample ID B00ZP0

Cas. No	COMPOUND	Scan Number	Results ug/KG	Footnotes
----------	-----NO UNKNOWNS FOUND----------	----	-----	----

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.

E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.

J Indicates an estimated concentration below the Method Detection Limit.

K The isomer is unknown.

N Analytical standards were not analyzed for this compound.

U Not detected.

W The identification is tentative or closely related to the compound.

9613445.2743

ANALYTICAL REPORT FOR SAMPLE No. EK2614MS

EPA METHOD 8240

TARGET ANALYTE RESULTS

Field Sample ID B00ZP0MS Sponsor WESTINGHOUSE HANFORD CO
File ID KM96E2614M Date of Analysis 07/27/91 Date Received 07/19/91
DataChem SET ID S91-0513DD

Cas. No	COMPOUND	RESULTS (ug/KG)	DETECTION LIMITS (ug/KG)
74-87-3	chloromethane	U	1.6*
74-83-9	bromomethane	U	1.5*
75-01-4	vinyl chloride	U	1.7*
75-00-3	chloroethane	U	1.4*
75-09-2	methylene chloride	U	1.6*
67-64-1	acetone	U	4.3*
75-15-0	carbon disulfide	U	1.6*
75-69-4	trichlorofluoromethane	U	1.5*
75-35-4	1,1-dichloroethene	42. SP	1.2*
75-34-3	1,1-dichloroethane	U	2.1*
540-59-0	total 1,2-dichloroethene	U	1.2*
76-66-3	chloroform	U	1.8*
107-06-2	1,2-dichloroethane	U	2.4*
74-88-4	iodomethane	U	1.5*
107-02-8	acrolein	U	58.*
107-13-1	acrylonitrile	U	43.*
78-93-3	2-butanone	U	3.8*
71-55-6	1,1,1-trichloroethane	U	1.6*
56-23-5	carbon tetrachloride	U	1.5*
108-05-4	vinyl acetate	U	3.5*
75-27-4	bromodichloromethane	U	1.8*
78-87-5	1,2-dichloropropane	U	2.0*
10061-02-5	cis-1,3-dichloropropene	U	3.1*
79-01-6	trichloroethene	50. SP	1.3*
71-43-2	benzene	50. SP	1.6*
124-48-1	dibromochloromethane	U	1.4*
79-00-5	1,1,2-trichloroethane	U	1.1*
10061-02-6	trans-1,3-dichloropropene	U	2.9*
110-75-8	2-chloroethylvinyl ether	U	3.3*
75-25-2	bromoform	U	1.2*
74-95-3	dibromomethane	U	2.5*
764-41-0	trans-1,4-dichloro-2-butene	U	1.7*
108-10-1	4-methyl-2-pentanone	U	3.5*
96-18-4	1,2,3-trichloropropane	U	2.3*
591-78-6	2-hexanone	U	4.1*
79-34-5	1,1,2,2-tetrachloroethane	U	2.0*
127-18-4	tetrachloroethene	U	1.5*
97-63-2	ethyl methacrylate	U	1.9*
108-88-3	toluene	42. SP	1.5*
108-90-7	chlorobenzene	57. SP	1.3*
100-41-4	ethylbenzene	U	1.4*
100-42-5	styrene	U	1.2*
1330-20-7	total xylene	U	1.0*

* current DataChem detection limit

ANALYTICAL REPORT FOR SAMPLE No. EK2614MS

NON-TARGET ANALYTE RESULTS
Additional Volatiles

Field Sample ID B00ZP0MS

Cas. No	COMPOUND	Scan Number	Results ug/KG	Footnotes
----------	-----NO UNKNOWNS FOUND----------	----	-----	----

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.

E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.

J Indicates an estimated concentration below the Method Detection Limit.

K The isomer is unknown.

N Analytical standards were not analyzed for this compound.

U Not detected.

W The identification is tentative or closely related to the compound.

9613445.2745

ANALYTICAL REPORT FOR SAMPLE No. EK2614MD

EPA METHOD 8240

TARGET ANALYTE RESULTS

Field Sample ID B00ZP0MSD Sponsor WESTINGHOUSE HANFORD CO
File ID KM97E2614M Date of Analysis 07/27/91 Date Received 07/19/91
DataChem SET ID S91-0513DD

Cas. No	COMPOUND	RESULTS (ug/KG)	DETECTION LIMITS (ug/KG)
74-87-3	chloromethane	U	1.6*
74-83-9	bromomethane	U	1.5*
75-01-4	vinyl chloride	U	1.7*
75-00-3	chloroethane	U	1.4*
75-09-2	methylene chloride	U	1.6*
67-64-1	acetone	U	4.3*
75-15-0	carbon disulfide	U	1.6*
75-69-4	trichlorofluoromethane	U	1.5*
75-35-4	1,1-dichloroethene	40. SP	1.2*
75-34-3	1,1-dichloroethane	U	2.1*
540-59-0	total 1,2-dichloroethene	U	1.2*
76-66-3	chloroform	U	1.8*
107-06-2	1,2-dichloroethane	U	2.4*
74-88-4	iodomethane	U	1.5*
107-02-8	acrolein	U	58.*
107-13-1	acrylonitrile	U	43.*
78-93-3	2-butanone	U	3.8*
71-55-6	1,1,1-trichloroethane	U	1.6*
56-23-5	carbon tetrachloride	U	1.5*
108-05-4	vinyl acetate	U	3.5*
75-27-4	bromodichloromethane	U	1.8*
78-87-5	1,2-dichloropropane	U	2.0*
10061-02-5	cis-1,3-dichloropropene	U	3.1*
79-01-6	trichloroethene	48. SP	1.3*
71-43-2	benzene	44. SP	1.6*
124-48-1	dibromochloromethane	U	1.4*
79-00-5	1,1,2-trichloroethane	U	1.1*
10061-02-6	trans-1,3-dichloropropene	U	2.9*
110-75-8	2-chloroethylvinyl ether	U	3.3*
75-25-2	bromoform	U	1.2*
74-95-3	dibromomethane	U	2.5*
764-41-0	trans-1,4-dichloro-2-butene	U	1.7*
108-10-1	4-methyl-2-pentanone	U	3.5*
96-18-4	1,2,3-trichloropropane	U	2.3*
591-78-6	2-hexanone	U	4.1*
79-34-5	1,1,2,2-tetrachloroethane	U	2.0*
127-18-4	tetrachloroethene	U	1.5*
97-63-2	ethyl methacrylate	U	1.9*
108-88-3	toluene	37. SP	1.5*
108-90-7	chlorobenzene	52. SP	1.3*
100-41-4	ethylbenzene	U	1.4*
100-42-5	styrene	U	1.2*
1330-20-7	total xylene	U	1.0*

* current DataChem detection limit

ANALYTICAL REPORT FOR SAMPLE No. EK2614MD

NON-TARGET ANALYTE RESULTS
Additional Volatiles

Field Sample ID B00ZP0MSD

Cas. No	COMPOUND	Scan Number	Results ug/KG	Footnotes
----------	-----NO UNKNOWNS FOUND----------	----	-----	----

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.

E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.

J Indicates an estimated concentration below the Method Detection Limit.

K The isomer is unknown.

N Analytical standards were not analyzed for this compound.

U Not detected.

W The identification is tentative or closely related to the compound.

9613445.2747

ANALYTICAL REPORT FOR SAMPLE No. EK2610

EPA METHOD 8240

TARGET ANALYTE RESULTS

Field Sample ID B00ZN6DUP Sponsor WESTINGHOUSE HANFORD CO
File ID KN07EK2610 Date of Analysis 07/27/91 Date Received 07/19/91
DataChem SET ID S91-0513DD

Cas. No	COMPOUND	RESULTS (ug/KG)	DETECTION LIMITS (ug/KG)
74-87-3	chloromethane	U	1.6*
74-83-9	bromomethane	U	1.5*
75-01-4	vinyl chloride	U	1.7*
75-00-3	chloroethane	U	1.4*
75-09-2	methylene chloride	U	1.6*
67-64-1	acetone	U	4.3*
75-15-0	carbon disulfide	U	1.6*
75-69-4	trichlorofluoromethane	U	1.5*
75-35-4	1,1-dichloroethene	U	1.2*
75-34-3	1,1-dichloroethane	U	2.1*
540-59-0	total 1,2-dichloroethene	U	1.2*
76-66-3	chloroform	U	1.8*
107-06-2	1,2-dichloroethane	U	2.4*
74-88-4	iodomethane	U	1.5*
107-02-8	acrolein	U	58.*
107-13-1	acrylonitrile	U	43.*
78-93-3	2-butanone	U	3.8*
71-55-6	1,1,1-trichloroethane	U	1.6*
56-23-5	carbon tetrachloride	U	1.5*
108-05-4	vinyl acetate	U	3.5*
75-27-4	bromodichloromethane	U	1.8*
78-87-5	1,2-dichloropropane	U	2.0*
10061-02-5	cis-1,3-dichloropropene	U	3.1*
79-01-6	trichloroethene	U	1.3*
71-43-2	benzene	0.84 J	1.6*
124-48-1	dibromochloromethane	U	1.4*
79-00-5	1,1,2-trichloroethane	U	1.1*
10061-02-6	trans-1,3-dichloropropene	U	2.9*
110-75-8	2-chloroethylvinyl ether	U	3.3*
75-25-2	bromoform	U	1.2*
74-95-3	dibromomethane	U	2.5*
764-41-0	trans-1,4-dichloro-2-butene	U	1.7*
108-10-1	4-methyl-2-pentanone	U	3.5*
96-18-4	1,2,3-trichloropropane	U	2.3*
591-78-6	2-hexanone	U	4.1*
79-34-5	1,1,2,2-tetrachloroethane	U	2.0*
127-18-4	tetrachloroethene	U	1.5*
97-63-2	ethyl methacrylate	U	1.9*
108-88-3	toluene	39.	1.5*
108-90-7	chlorobenzene	U	1.3*
100-41-4	ethylbenzene	U	1.4*
100-42-5	styrene	U	1.2*
1330-20-7	total xylene	U	1.0*

* current DataChem detection limit

ANALYTICAL REPORT FOR SAMPLE No. EK2610

NON-TARGET ANALYTE RESULTS
Additional Volatiles

Field Sample ID B00ZN6DUP

Cas. No	COMPOUND	Scan Number	Results ug/KG	Footnotes
----------	-----NO UNKNOWNS FOUND----------	----	-----	----

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.

E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.

J Indicates an estimated concentration below the Method Detection Limit.

K The isomer is unknown.

N Analytical standards were not analyzed for this compound.

U Not detected.

W The identification is tentative or closely related to the compound.

ANALYTICAL REPORT FOR SAMPLE No. EK2605

EPA METHOD 8240

TARGET ANALYTE RESULTS

Field Sample ID B00ZP2 Sponsor WESTINGHOUSE HANFORD CO
File ID KN10EK2605 Date of Analysis 07/27/91 Date Received 07/19/91
DataChem SET ID S91-0513DD

Cas. No	COMPOUND	RESULTS (ug/KG)	DETECTION LIMITS (ug/KG)
74-87-3	chloromethane	U	4000.*
74-83-9	bromomethane	U	3800.*
75-01-4	vinyl chloride	U	4300.*
75-00-3	chloroethane	U	3500.*
75-09-2	methylene chloride	U	4000.*
67-64-1	acetone	U	11000.*
75-15-0	carbon disulfide	U	4000.*
75-69-4	trichlorofluoromethane	U	3800.*
75-35-4	1,1-dichloroethene	U	3000.*
75-34-3	1,1-dichloroethane	U	5300.*
540-59-0	total 1,2-dichloroethene	U	3000.*
76-66-3	chloroform	U	4500.*
107-06-2	1,2-dichloroethane	U	6000.*
74-88-4	iodomethane	U	3800.*
107-02-8	acrolein	U	150000.*
107-13-1	acrylonitrile	U	110000.*
78-93-3	2-butanone	B	9500.*
71-55-6	1,1,1-trichloroethane	U	4000.*
56-23-5	carbon tetrachloride	U	3800.*
108-05-4	vinyl acetate	U	8800.*
75-27-4	bromodichloromethane	U	4500.*
78-87-5	1,2-dichloropropane	U	5000.*
10061-02-5	cis-1,3-dichloropropene	U	7800.*
79-01-6	trichloroethene	U	3300.*
71-43-2	benzene	1800.	4000.*
124-48-1	dibromochloromethane	U	3500.*
79-00-5	1,1,2-trichloroethane	U	2800.*
10061-02-6	trans-1,3-dichloropropene	U	7300.*
110-75-8	2-chloroethylvinyl ether	U	8300.*
75-25-2	bromoform	U	3000.*
74-95-3	dibromomethane	U	6300.*
764-41-0	trans-1,4-dichloro-2-butene	U	4300.*
108-10-1	4-methyl-2-pentanone	U	8800.*
96-18-4	1,2,3-trichloropropane	U	5800.*
591-78-6	2-hexanone	U	10000.*
79-34-5	1,1,2,2-tetrachloroethane	U	5000.*
127-18-4	tetrachloroethene	U	3800.*
97-63-2	ethyl methacrylate	U	4800.*
108-88-3	toluene	43000.	3800.*
108-90-7	chlorobenzene	U	3300.*
100-41-4	ethylbenzene	11000.	3500.*
100-42-5	styrene	U	3000.*
1330-20-7	total xylene	540000.	2500.*

* current DataChem detection limit

ANALYTICAL REPORT FOR SAMPLE No. EK2605

NON-TARGET ANALYTE RESULTS
Additional Volatiles

Field Sample ID B00ZP2

Cas. No	COMPOUND	Scan Number	Results ug/KG	Footnotes
	C5 cyclic hydrocarbon	227	2.1E4	EWN
	C6 cyclic hydrocarbon	244	2.0E4	EWN
110-54-3	hexane	322	2.6E4	EWN
565-59-3	2,3-dimethylpentane	356	5.4E4	EWN
	C7 hydrocarbon	380	6.0E4	EWN
	unknown branched alkane	401	1.7E5	EWN
	C8 hydrcarbon	430	3.7E4	EWN
	C8 hydrocarbon	467	6.3E4	EWN
	C8 hydrocarbon	499	5.0E4	EWN

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
J Indicates an estimated concentration below the Method Detection Limit.
K The isomer is unknown.
N Analytical standards were not analyzed for this compound.
U Not detected.
W The identification is tentative or closely related to the compound.

ANALYTICAL REPORT FOR SAMPLE No. EK2605MS

EPA METHOD 8240

TARGET ANALYTE RESULTS

Field Sample ID B00ZP2MS Sponsor WESTINGHOUSE HANFORD CO
File ID KN11E2605M Date of Analysis 07/27/91 Date Received 07/19/91
DataChem SET ID S91-0513DD

Cas. No	COMPOUND	RESULTS (ug/KG)	DETECTION LIMITS (ug/KG)
74-87-3	chloromethane	U	4000.*
74-83-9	bromomethane	U	3800.*
75-01-4	vinyl chloride	U	4300.*
75-00-3	chloroethane	U	3500.*
75-09-2	methylene chloride	U	4000.*
67-64-1	acetone	U	11000.*
75-15-0	carbon disulfide	U	4000.*
75-69-4	trichlorofluoromethane	U	3800.*
75-35-4	1,1-dichloroethene	3.2 SP	3000.*
75-34-3	1,1-dichloroethane	U	5300.*
540-59-0	total 1,2-dichloroethene	U	3000.*
76-66-3	chloroform	U	4500.*
107-06-2	1,2-dichloroethane	U	6000.*
74-88-4	iodomethane	U	3800.*
107-02-8	acrolein	U	150000.*
107-13-1	acrylonitrile	U	110000.*
78-93-3	2-butanone	B	9500.*
71-55-6	1,1,1-trichloroethane	U	4000.*
56-23-5	carbon tetrachloride	U	3800.*
108-05-4	vinyl acetate	U	8800.*
75-27-4	bromodichloromethane	U	4500.*
78-87-5	1,2-dichloropropane	U	5000.*
10061-02-5	cis-1,3-dichloropropene	U	7800.*
79-01-6	trichloroethene	2.3 SP	3300.*
71-43-2	benzene	3.1 @	4000.*
124-48-1	dibromochloromethane	U	3500.*
79-00-5	1,1,2-trichloroethane	U	2800.*
10061-02-6	trans-1,3-dichloropropene	U	7300.*
110-75-8	2-chloroethylvinyl ether	U	8300.*
75-25-2	bromoform	U	3000.*
74-95-3	dibromomethane	U	6300.*
764-41-0	trans-1,4-dichloro-2-butene	U	4300.*
108-10-1	4-methyl-2-pentanone	U	8800.*
96-18-4	1,2,3-trichloropropane	U	5800.*
591-78-6	2-hexanone	U	10000.*
79-34-5	1,1,2,2-tetrachloroethane	U	5000.*
127-18-4	tetrachloroethene	U	3800.*
97-63-2	ethyl methacrylate	U	4800.*
108-88-3	toluene	19. @	3800.*
108-90-7	chlorobenzene	3.5 SP	3300.*
100-41-4	ethylbenzene	11000.	3500.*
100-42-5	styrene	U	3000.*
1330-20-7	total xylene	590000.	2500.*

* current DataChem detection limit

ANALYTICAL REPORT FOR SAMPLE No. EK2605MS

NON-TARGET ANALYTE RESULTS
Additional Volatiles

Field Sample ID B00ZP2MS

Cas. No	COMPOUND	Scan Number	Results ug/KG	Footnotes
----------	-----REFER TO SAMPLE EK2605--------	----	-----	----

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.

E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.

J Indicates an estimated concentration below the Method Detection Limit.

K The isomer is unknown.

N Analytical standards were not analyzed for this compound.

U Not detected.

W The identification is tentative or closely related to the compound.

ANALYTICAL REPORT FOR SAMPLE No. EK2606

EPA METHOD 8240

TARGET ANALYTE RESULTS

Field Sample ID B00ZP3 Sponsor WESTINGHOUSE HANFORD CO
File ID KN13EK2606 Date of Analysis 07/27/91 Date Received 07/19/91
DataChem SET ID S91-0513DD

Cas. No	COMPOUND	RESULTS (ug/KG)	DETECTION LIMITS (ug/KG)
74-87-3	chloromethane	U	4000.*
74-83-9	bromomethane	U	3800.*
75-01-4	vinyl chloride	U	4300.*
75-00-3	chloroethane	U	3500.*
75-09-2	methylene chloride	U	4000.*
67-64-1	acetone	U	11000.*
75-15-0	carbon disulfide	U	4000.*
75-69-4	trichlorofluoromethane	U	3800.*
75-35-4	1,1-dichloroethene	U	3000.*
75-34-3	1,1-dichloroethane	U	5300.*
540-59-0	total 1,2-dichloroethene	U	3000.*
76-66-3	chloroform	U	4500.*
107-06-2	1,2-dichloroethane	U	6000.*
74-88-4	iodomethane	U	3800.*
107-02-8	acrolein	U	150000.*
107-13-1	acrylonitrile	U	110000.*
78-93-3	2-butanone	81000.	9500.*
71-55-6	1,1,1-trichloroethane	U	4000.*
56-23-5	carbon tetrachloride	U	3800.*
108-05-4	vinyl acetate	U	8800.*
75-27-4	bromodichloromethane	U	4500.*
78-87-5	1,2-dichloropropane	U	5000.*
10061-02-5	cis-1,3-dichloropropene	U	7800.*
79-01-6	trichloroethene	U	3300.*
71-43-2	benzene	4500.	4000.*
124-48-1	dibromochloromethane	U	3500.*
79-00-5	1,1,2-trichloroethane	U	2800.*
10061-02-6	trans-1,3-dichloropropene	U	7300.*
110-75-8	2-chloroethylvinyl ether	U	8300.*
75-25-2	bromoform	U	3000.*
74-95-3	dibromomethane	U	6300.*
764-41-0	trans-1,4-dichloro-2-butene	U	4300.*
108-10-1	4-methyl-2-pentanone	U	8800.*
96-18-4	1,2,3-trichloropropane	U	5800.*
591-78-6	2-hexanone	U	10000.*
79-34-5	1,1,2,2-tetrachloroethane	U	5000.*
127-18-4	tetrachloroethene	U	3800.*
97-63-2	ethyl methacrylate	U	4800.*
108-88-3	toluene	100000.	3800.*
108-90-7	chlorobenzene	U	3300.*
100-41-4	ethylbenzene	32000.	3500.*
100-42-5	styrene	U	3000.*
1330-20-7	total xylene	1800000.	2500.*

* current DataChem detection limit

ANALYTICAL REPORT FOR SAMPLE No. EK2606

NON-TARGET ANALYTE RESULTS
Additional Volatiles

Field Sample ID B00ZP3

Cas. No	COMPOUND	Scan Number	Results ug/KG	Footnotes
	C7 cyclic hydrocarbon	338	8.6E4	EWN
565-59-3	2,3-dimethylpentane	355	5.9E4	EWN
	C7 hydrocarbon	379	8.6E4	EWN
	unknown branched alkane	400	2.9E5	EWN
	C9 oxy hydrocarbon	429	8.4E4	EWN
	unknown branched alkane	466	1.5E5	EWN
	C8 hydrocarbon	475	1.0E5	EWN
	unknown	480	5.2E4	EWN
	C8 hydrocarbon	498	1.5E5	EWN
	unknown branched alkane	557	1.6E5	EWN
	unknown branched alkane	568	2.7E5	EWN

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.

E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.

J Indicates an estimated concentration below the Method Detection Limit.

K The isomer is unknown.

N Analytical standards were not analyzed for this compound.

U Not detected.

W The identification is tentative or closely related to the compound.

ANALYTICAL REPORT FOR SAMPLE No. EK2607

EPA METHOD 8240

TARGET ANALYTE RESULTS

Field Sample ID B00ZP4 Sponsor WESTINGHOUSE HANFORD CO
File ID KN15EK2607 Date of Analysis 07/27/91 Date Received 07/19/91
DataChem SET ID S91-0513DD

Cas. No	COMPOUND	RESULTS (ug/KG)	DETECTION LIMITS (ug/KG)
74-87-3	chloromethane	U	4000.*
74-83-9	bromomethane	U	3800.*
75-01-4	vinyl chloride	U	4300.*
75-00-3	chloroethane	U	3500.*
75-09-2	methylene chloride	U	4000.*
67-64-1	acetone	U	11000.*
75-15-0	carbon disulfide	U	4000.*
75-69-4	trichlorofluoromethane	U	3800.*
75-35-4	1,1-dichloroethene	U	3000.*
75-34-3	1,1-dichloroethane	U	5300.*
540-59-0	total 1,2-dichloroethene	U	3000.*
76-66-3	chloroform	U	4500.*
107-06-2	1,2-dichloroethane	U	6000.*
74-88-4	iodomethane	U	3800.*
107-02-8	acrolein	U	150000.*
107-13-1	acrylonitrile	U	110000.*
78-93-3	2-butanone	B	9500.*
71-55-6	1,1,1-trichloroethane	U	4000.*
56-23-5	carbon tetrachloride	U	3800.*
108-05-4	vinyl acetate	U	8800.*
75-27-4	bromodichloromethane	U	4500.*
78-87-5	1,2-dichloropropane	U	5000.*
10061-02-5	cis-1,3-dichloropropene	U	7800.*
79-01-6	trichloroethene	U	3300.*
71-43-2	benzene	2700.	4000.*
124-48-1	dibromochloromethane	U	3500.*
79-00-5	1,1,2-trichloroethane	U	2800.*
10061-02-6	trans-1,3-dichloropropene	U	7300.*
110-75-8	2-chloroethylvinyl ether	U	8300.*
75-25-2	bromoform	U	3000.*
74-95-3	dibromomethane	U	6300.*
764-41-0	trans-1,4-dichloro-2-butene	U	4300.*
108-10-1	4-methyl-2-pentanone	U	8800.*
96-18-4	1,2,3-trichloropropane	U	5800.*
591-78-6	2-hexanone	U	10000.*
79-34-5	1,1,2,2-tetrachloroethane	U	5000.*
127-18-4	tetrachloroethene	U	3800.*
97-63-2	ethyl methacrylate	U	4800.*
108-88-3	toluene	94000.	3800.*
108-90-7	chlorobenzene	U	3300.*
100-41-4	ethylbenzene	23000.	3500.*
100-42-5	styrene	U	3000.*
1330-20-7	total xylene	1600000.	2500.*

* current DataChem detection limit

ANALYTICAL REPORT FOR SAMPLE No. EK2607

NON-TARGET ANALYTE RESULTS
Additional Volatiles

Field Sample ID B00ZP4

Cas. No	COMPOUND	Scan Number	Results ug/KG	Footnotes
	C7 hydrocarbon	378	8.8E4	EWN
	C8 hydrocarbon	400	3.5E5	EWN
	unknown oxy hydrocarbon	428	9.0E4	EWN
	C8 hydrocarbon	440	7.6E4	EWN
	mixed spectra: C8 hydrcarbon & C3 subst benzne	450	7.2E4	EWN
	C8 hydrocarbon	465	1.6E5	EWN
	C8 hydrocarbon	474	1.3E5	EWN
	C8 hydrocarbon	497	1.1E5	EWN
	C9 hydrocarbon	548	6.8E4	EWN
	unknown branched alkane	556	2.5E5	EWN
	C9 hydrocarbon	567	2.9E5	EWN

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
J Indicates an estimated concentration below the Method Detection Limit.
K The isomer is unknown.
N Analytical standards were not analyzed for this compound.
U Not detected.
W The identification is tentative or closely related to the compound.

ANALYTICAL REPORT FOR SAMPLE No. EK2615

EPA METHOD 8240

TARGET ANALYTE RESULTS

Field Sample ID B00ZP1 Sponsor WESTINGHOUSE HANFORD CO
File ID KN17EK2615 Date of Analysis 07/27/91 Date Received 07/19/91
DataChem SET ID S91-0513DD

Cas. No	COMPOUND	RESULTS (ug/KG)	DETECTION LIMITS (ug/KG)
74-87-3	chloromethane	U	4000.*
74-83-9	bromomethane	U	3800.*
75-01-4	vinyl chloride	U	4300.*
75-00-3	chloroethane	U	3500.*
75-09-2	methylene chloride	U	4000.*
67-64-1	acetone	42000.	11000.*
75-15-0	carbon disulfide	U	4000.*
75-69-4	trichlorofluoromethane	U	3800.*
75-35-4	1,1-dichloroethene	U	3000.*
75-34-3	1,1-dichloroethane	U	5300.*
540-59-0	total 1,2-dichloroethene	U	3000.*
76-66-3	chloroform	U	4500.*
107-06-2	1,2-dichloroethane	U	6000.*
74-88-4	iodomethane	U	3800.*
107-02-8	acrolein	U	150000.*
107-13-1	acrylonitrile	U	110000.*
78-93-3	2-butanone	B	9500.*
71-55-6	1,1,1-trichloroethane	U	4000.*
56-23-5	carbon tetrachloride	U	3800.*
108-05-4	vinyl acetate	U	8800.*
75-27-4	bromodichloromethane	U	4500.*
78-87-5	1,2-dichloropropane	U	5000.*
10061-02-5	cis-1,3-dichloropropene	U	7800.*
79-01-6	trichloroethene	U	3300.*
71-43-2	benzene	20000.	4000.*
124-48-1	dibromochloromethane	U	3500.*
79-00-5	1,1,2-trichloroethane	U	2800.*
10061-02-6	trans-1,3-dichloropropene	U	7300.*
110-75-8	2-chloroethylvinyl ether	U	8300.*
75-25-2	bromoform	U	3000.*
74-95-3	dibromomethane	U	6300.*
764-41-0	trans-1,4-dichloro-2-butene	U	4300.*
108-10-1	4-methyl-2-pentanone	U	8800.*
96-18-4	1,2,3-trichloropropane	U	5800.*
591-78-6	2-hexanone	U	10000.*
79-34-5	1,1,2,2-tetrachloroethane	U	5000.*
127-18-4	tetrachloroethene	U	3800.*
97-63-2	ethyl methacrylate	U	4800.*
108-88-3	toluene	350000.	3800.*
108-90-7	chlorobenzene	U	3300.*
100-41-4	ethylbenzene	100000.	3500.*
100-42-5	styrene	U	3000.*
1330-20-7	total xylene	1300000.	2500.*

* current DataChem detection limit

ANALYTICAL REPORT FOR SAMPLE No. EK2615

NON-TARGET ANALYTE RESULTS
Additional Volatiles

Field Sample ID B00ZP1

Cas. No	COMPOUND	Scan Number	Results ug/KG	Footnotes
565-59-3	2,3 dimethylpentane	354	1.7E5	ENW
	C7 hydrocarbon	378	1.7E5	ENW
	unknown branched alkane	399	4.7E5	ENW
	C8 hydrocarbon	428	1.0E5	ENW
	C8 hydrocarbon	440	7.6E4	ENW
	mixed spectra: C8 hydrocarbon & C3 subst. benzene	450	8.4E4	EWN
	ethylmethylbenzene isomer	451	1.0E5	EWNK
	C8 hydrocarbon	465	1.5E5	EWN
	C8 hydrocarbon	474	2.0E5	EWN
	C8 hydrocarbon	497	1.1E5	EWN
	unknown bicyclo unsat. hydrocarbon	550	5.4E4	EWN
	C9 hydrocarbon	556	1.9E5	EWN
	C9 hydrocarbon	567	1.8E5	EWN

FOOTNOTES

B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
J Indicates an estimated concentration below the Method Detection Limit.
K The isomer is unknown.
N Analytical standards were not analyzed for this compound.
U Not detected.
W The identification is tentative or closely related to the compound.