START 9613422.0304

9201L963-WES-298

0043617

WESTON
MANAGERS DESIGNERS CONSULTANTS

208 WELSH POOL ROAD
PICKERING CREEK INDUSTRIAL PARK
LIONVILLE, PA 19341-1313
PHONE: (215) 524-7360
TELEX: 83-5348

MAY 1992 RECEIVED OSM DMC

6 May 1992

Ms. Jeanette Duncan
Westinghouse-Hanford
2355 Stevens Drive
200 W/MO-346/T6-08
Richland, WA 99352

Dear Jeanette:

This letter is to inform you of an incorrect client ID number throughout the data packages that was inadvertantly missed. The client ID is shown as B015I3 in the packages and the correct number should be B015J3. The RFW number is 9201L963.

Please give me a call if you have any questions.

Very truly yours,

ROY F. WESTON, INC.

Josie King
Project Information Analyst
Analytics Division

/clk

Enclosure:

FEB 1996 RECEIVED DMC

WESTON Analytics Use Only
9201L963

Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 1

Client: Westinghouse Hanford
Est. Final Proj. Sampling Date:
Work Order #: 61168-02-01
Project Contact/Phone #:
AD Project Manager: JKing
QC: CLP Del: CLP TAT: 35 day
Date Rec'd: 1/9/92 Date Due: 2/13/92
Account #: WS-Hanford

Refrigerator #		1	6	1			2	2	3	3	3	3				
#/Type Container	Liquid	3/G	2/G	1			2/G	1/G	1/P	1/P	2/P	1/P				
	Solid	1/G	1/G	1		w/BNA	1/G		w/BNA							
Volume	Liquid	40	2LTR	1			4LTR	250	LTR	LTR	250	250				
	Solid	125	950	1		w/BNA	950		w/BNA							
Preservatives		none				none	HNO3	none	HNO3	NaOH	none	H2SO4				
ANALYSES REQUESTED		ORGANIC							INORG							
		VOA	BNA	Pest/PCB	Herb	TOC	Radio Chem		Metal	CN	Anions	N3N2				

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	VOA	BNA	Pest/PCB	Herb	TOC	Radio Chem		Metal	CN	Anions	N3N2				
							WESTON Analytics Use Only														
							CLP 3/4	CLP 3/4	CLP 3/4		ICT	① ②		See Below	ICN03	See Below	IC504				
001	B015Q7			S	1/7/92		✓	✓	✓		✓	✓		✓	✓	✓	✓				
2	B015Q9			S			✓	✓	✓		✓	✓		✓	✓	✓	✓				
3	B015J1			W			✓	✓	✓			✓		✓	✓	✓	✓				
4	B015L6			W			✓														
5	B015R3			S	1/7/92		✓	✓	✓		✓	✓		✓	✓	✓	✓				
6	B015J3			W			✓	✓	✓			✓		✓	✓	✓	✓				
	Metals=HSL+BI																				
	Anions=IC504, IC504, ICN03																				
	Radiochem = ① Total Alpha/beta Gamma Scan, TC99, SR90, CS-137, CO-60, PU238																				
	PU239/240, RU106, Total Uranium																				

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions: Radiochem ② = Tritium
Run ① MS/MSD for each Matrix
91-019
PE 3BP

original Relinquished

DATE/REVISIONS:
1/14/92 1. ICP04 + ICN03 out of hold for HAU
1/14/92 2. Radiochem switched to Teledyne on 1/15/92
3.
4.
5.
6.

Relinquished by	Received by	Date	Time
Emery	P Yeager	1/9/91	15:20
	P 1/9/92		

Relinquished by	Received by	Date	Time
	P 1/9/92		

Discrepancies Between Samples Labels and COC Record? Y or (N)
NOTES:

WESTON Analytics Use Only

Samples were:
1) Shipped ✓ or Hand Delivered ___
Airbill #
2) Ambient or (Chilled)
3) Received in Good Condition (Y) or N
4) Labels Indicate Properly Preserved (Y) or N
5) Received Within Holding Times (Y) or N
Pulled Anions out

COC Tape was:
1) Present on Outer Package (Y) or N
2) Unbroken on Outer Package (Y) or N
3) Present on Sample (Y) or N
4) Unbroken on Sample (Y) or N
COC Record Present Upon Sample Rec't (Y) or N

RFW 21-21-001/A-7/91 L372 L373 L375 L377 L378 Ref# Cooler# 381-596a

9201L963 0305 0100 2

Westinghouse Hanford Company 9613422.0306

0000 CHAIN OF CUSTODY

Custody Form Initiator W.S. Thompson

Project #: 91-019

Company Contact N. S. Thompson

Telephone (509) 376-2153

Project Designation/Sampling Locations 200-BP-1 Operable Unit

Collection Date 1/7/92

Boring: 216-B-46C

Time: #1 0845; #2 0845; #3 0927; #4 0930

Ice Chest No. UHC-19

Field Logbook No. WHC-N-385-12

Bill of Lading/Airbill No. 2509865047

Offsite Property No. W92-0-0003-

Method of Shipment Air

Shipped to Weston Laboratory, 208 Welsh Pool Road, Lionville, PA 19341-1313

Possible Sample Hazards/Remarks Samples are non hazardous with field instruments. Keep samples chilled. All analysis is CLP.

Sample Identification

1) B015L6 - 3x40ml, amberglass; water; CLP-VOA

2) B015Q7 wst 1/7/92
120 ~~120~~ ml; amberglass, soil; CLP ~~Se~~ wst 1/7/92 VOA
1, 950ml; amberglass; soil; CLP-Semi-VOA, Pest/PCB; metals; Cn; Bi; NO_2/NO_3; SO_4, PO_4, NO_3
1, 1000ml, glass; soil; Radionuclides-CLP.

3) B015Q9
1, 120 ml; amberglass; soil; CLP-VOA
1, 950ml amberglass soil; CLP-Semi-VOA, Pest/PCB; metals; Cn; Bi; NO_2/NO_3, SO_4, PO_4 N
1, 1000ml, glass; soil; Radionuclides

4) B015J1 2x4 liter; plastic; water (HNO_3) CLP-Radionuclides total alpha, total beta, GE Sr^{90}, Cs^{137}, Co^{60} Ru^{106} Tc^{99}, $Pu^{239/240}$ Pb^{238} total uranium
3x40ml, amberglass; water; CLP-VOA
2x2360ml; amberglass; water; CLP-Semi-VOA; Pest/PCB
1x1000ml; plastic; water; CLP-Cyanide (NaOH preservative)
1x1000ml; plastic; water (HNO_3) CLP-metals, Bismuth
2x250ml; plastic; water - CLP SO_4, PO_4, NO_3
1x250ml; plastic; water - CLP - NO_2/NO_3 (H_2SO_4 preservative)
1x250ml; glass (amber); water; CLP-tritium

☐ Field Transfer of Custody

CHAIN OF POSSESSION (Sign and Print Names)

Relinquished by:	Received by:	Date/Time:
W.S. Thompson Wendy S. Thompson	M.C. Douglas Matthew C Douglas	1-8-92 0955
Relinquished by: M.C. Douglas Matthew C Douglas	Received by:	Date/Time:
Relinquished by: Emery	Received by: P Hegan	Date/Time: 1/9/92 15:20
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:

Comments:

Westinghouse Hanford Company 9613422.0307 0000006

CHAIN OF CUSTODY

Custody Form Initiator W.S. Thompson

Project #: 91-019

Company Contact W. S. Thompson

Telephone (509) 376-2153

Project Designation/Sampling Locations 200-BP-1 Operable Unit

Collection Date 1/7/92

Boring: 216-B-46C (#1) + 216-B-43A (#2)

Time: 1325; 1124

Ice Chest No. SNL #3

Field Logbook No. WHC-N-385-12

Bill of Lading/Airbill No. 2509865047

Offsite Property No. W92-0-0003.1

Method of Shipment Air

Shipped to Weston Laboratory, 208 Welsh Pool Road, Lionville, PA 19341-1313

Possible Sample Hazards/Remarks Samples are nonhazardous with field instruments. Keep samples chilled. All analysis is CLP.

Sample Identification

(1) B015J3 @ 1325

3x40ml; amberglass; water; CLP- VOA
2x2360ml; amberglass, water. CLP- Semi-VOA; Pest/PCB's
1x1000ml; plastic water; (NaOH) CLP- Cyanide
1x250 ml; plastic; water (H2SO4) CLP- NO2/NO3
2x250ml; plastic; water CLP- SO4 PO4 NO3
1x1000ml; plastic water (HNO3) - ICP/AA metals; Bi
2x4 liter; plastic; water (HNO3) - total alpha, total beta, GEA; Sr90, Co60, Ru106, Cs137, Tc99
1x250ml; amberglass, water; CLP- tritium, Pu238, Pu239/240, total uranium

(2) B015R3 @ 1124

1, 120ml; amberglass, soil; CLP-VOA
1, 950ml; amberglass, soil, CLP- Semi-VOA, Pest/PCB's; TOC; metals Bi; CN
SO4, PO4, NO3, NO2/NO3
1, 1000ml; glass; soil; CLP- total alpha, total beta, GEA, Sr90, Cs137, Ru106
Tc99, Co60, Pu238, Pu239/240, total Uranium

☐ Field Transfer of Custody

CHAIN OF POSSESSION (Sign and Print Names)

Relinquished by:	Received by:	Date/Time:
W. S. Thompson Stanley J. Thompson	M. C. Douglas Matthew C. Douglas	1-8-92 0955
M.C. Douglas Matthew C. Douglas		
Emery	P. Yergin	1/9/92 15:20

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:

Comments:

Roy F. Weston, Inc. - Lionville Laboratory
Volatiles by GC/MS, HSL List

RFW Batch Number: 9201L963 Client: WESTINGHOUSE HANFORD Work Order: 6168-02-01-0000 Report Date: 02/13/92 08:39 Page: 1a

	Cust ID:	B015Q7		B015Q7		B015Q7		B015Q9		B015J1		B015L6	
Sample Information	RFW#:	001		001 MS		001 MSD		002		003		004	
	Matrix:	SOIL		SOIL		SOIL		SOIL		WATER		WATER	
	D.F.:	1.00		1.00		1.00		1.00		1.00		1.00	
	Units:	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/L		ug/L	
Surrogate Recovery	Toluene-d8	100	%	101	%	100	%	99	%	105	%	103	%
	Bromofluorobenzene	96	%	101	%	98	%	96	%	101	%	100	%
	1,2-Dichloroethane-d4	113	%	120	%	114	%	116	%	105	%	103	%
			fl		fl		fl		fl		fl		fl
Chloromethane		10	U	10	U	10	U	10	U	10	U	10	U
Bromomethane		10	U	10	U	10	U	10	U	10	U	10	U
Vinyl Chloride		10	U	10	U	10	U	10	U	10	U	10	U
Chloroethane		10	U	10	U	10	U	10	U	10	U	10	U
Methylene Chloride		7	B	9	B	10	B	9	B	3	JB	14	B
Acetone		10	U	48	B	43	B	35	B	10	U	10	U
Carbon Disulfide		5	U	5	U	5	U	5	U	5	U	5	U
1,1-Dichloroethene		5	U	113	%	111	%	5	U	5	U	5	U
1,1-Dichloroethane		5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloroethene (total)		5	U	5	U	5	U	5	U	5	U	5	U
Chloroform		5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloroethane		5	U	5	U	5	U	5	U	5	U	5	U
2-Butanone		10	U	10	U	10	U	10	U	10	U	10	U
1,1,1-Trichloroethane		5	U	5	U	5	U	5	U	5	U	5	U
Carbon Tetrachloride		5	U	5	U	5	U	5	U	5	U	5	U
Vinyl Acetate		10	U	10	U	10	U	10	U	10	U	10	U
Bromodichloromethane		5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloropropane		5	U	5	U	5	U	5	U	5	U	5	U
cis-1,3-Dichloropropene		5	U	5	U	5	U	5	U	5	U	5	U
Trichloroethene		5	U	107	%	114	%	5	U	5	U	5	U
Dibromochloromethane		5	U	5	U	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane		5	U	5	U	5	U	5	U	5	U	5	U
Benzene		5	U	114	%	122	%	5	U	5	U	5	U
Trans-1,3-Dichloropropene		5	U	5	U	5	U	5	U	5	U	5	U
Bromoform		5	U	5	U	5	U	5	U	5	U	5	U
4-Methyl-2-pentanone		10	U	10	U	10	U	10	U	10	U	10	U
2-Hexanone		10	U	10	U	10	U	10	U	10	U	10	U
Tetrachloroethene		5	U	5	U	5	U	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane		5	U	5	U	5	U	5	U	5	U	5	U

*= Outside of EPA CLP QC limits.

000008

RFW Batch Number: 9201L963 Client: WESTINGHOUSE HANFORD Work Order: 6168-02-01-0000 Page: 1b

Cust ID:	B015Q7	B015Q7	B015Q7	B015Q9	B015J1	B015L6
RFW#:	001	001 MS	001 MSD	002	003	004
Toluene	5 U	116 %	121 %	5 U	5 U	5 U
Chlorobenzene	5 U	115 %	114 %	5 U	5 U	5 U
Ethylbenzene	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	5 U	5 U	5 U	5 U	5 U	5 U
Xylene (total)	5 U	5 U	5 U	5 U	5 U	5 U

*= Outside of EPA CLP QC limits.

9600000 9 9 6 3 7 2 . 2 3 0 9

Roy F. Weston, Inc. - Lionville Laboratory
Volatiles by GC/MS, HSL List

RFW Batch Number: 9201L963 Client: WESTINGHOUSE HANFORD Work Order: 6168-02-01-0000 Report Date: 02/13/92 08:39 Page: 2a

	Cust ID:	B015R3		B015I3		B015I3		B015I3		VBLK		VBLK	
Sample Information	RFW#:	005		006		006 MS		006 MSD		92LVX008-MB1		92LVK005-MB1	
	Matrix:	SOIL		WATER		WATER		WATER		SOIL		WATER	
	D.F.:	1.00		1.00		1.00		1.00		1.00		1.00	
	Units:	ug/Kg		ug/L		ug/L		ug/L		ug/Kg		ug/L	
Surrogate Recovery	Toluene-d8	103	%	104	%	102	%	103	%	103	%	99	%
	Bromofluorobenzene	102	%	103	%	99	%	103	%	100	%	98	%
	1,2-Dichloroethane-d4	119	%	99	%	105	%	111	%	103	%	99	%
Chloromethane		10	U	10	U	10	U	10	U	10	U	10	U
Bromomethane		10	U	10	U	10	U	10	U	10	U	10	U
Vinyl Chloride		10	U	10	U	10	U	10	U	10	U	10	U
Chloroethane		10	U	10	U	10	U	10	U	10	U	10	U
Methylene Chloride		25	B	4	JB	2	JB	4	JB	4	J	4	J
Acetone		57	B	10	U	10	U	10	U	10		10	U
Carbon Disulfide		5	U	5	U	5	U	5	U	5	U	5	U
1,1-Dichloroethene		5	U	4	JB	103	%	103	%	5	U	5	U
1,1-Dichloroethane		5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloroethene (total)		5	U	5	U	5	U	5	U	5	U	5	U
Chloroform		5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloroethane		5	U	5	U	5	U	5	U	5	U	5	U
2-Butanone		10	U	10	U	10	U	10	U	10	U	10	U
1,1,1-Trichloroethane		5	U	5	U	5	U	5	U	5	U	5	U
Carbon Tetrachloride		5	U	5	U	5	U	5	U	5	U	5	U
Vinyl Acetate		10	U	10	U	10	U	10	U	10	U	10	U
Bromodichloromethane		5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloropropane		5	U	5	U	5	U	5	U	5	U	5	U
cis-1,3-Dichloropropene		5	U	5	U	5	U	5	U	5	U	5	U
Trichloroethene		5	U	5	U	119	%	120	%	5	U	5	U
Dibromochloromethane		5	U	5	U	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane		5	U	5	U	5	U	5	U	5	U	5	U
Benzene		5	U	5	U	113	%	115	%	5	U	5	U
Trans-1,3-Dichloropropene		5	U	5	U	5	U	5	U	5	U	5	U
Bromoform		5	U	5	U	5	U	5	U	5	U	5	U
4-Methyl-2-pentanone		10	U	10	U	10	U	10	U	10	U	10	U
2-Hexanone		10	U	10	U	10	U	10	U	10	U	10	U
Tetrachloroethene		5	U	5	U	5	U	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane		5	U	5	U	5	U	5	U	5	U	5	U

*= Outside of EPA CLP QC limits.

000010

Cust ID:	B015R3	B015I3	B015I3	B015I3	VBLK	VBLK
RFW#:	005	006	006 MS	006 MSD	92LVX008-MB1	92LVK005-MB1
Toluene	5 U	5 U	112 %	110 %	5 U	5 U
Chlorobenzene	5 U	5 U	113 %	112 %	5 U	5 U
Ethylbenzene	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	5 U	5 U	5 U	5 U	5 U	5 U
Xylene (total)	5 U	5 U	5 U	5 U	5 U	5 U

*= Outside of EPA CLP QC limits.

9402.001 000011

ROY F. WESTON, INC.
Lionville Laboratory

CLIENT: WESTINGHOUSE HANFORD **SAMPLES RECEIVED:** 01-09-92
RFW #: 9201L963, GC/MS VOLATILE
W.O. #: 6168-02-01

NARRATIVE

The set of samples consisted of three (3) water samples and three (3) soil samples collected on 01-07-92.

The samples were analyzed according to criteria set forth in CLP SOW 02/88 (Rev. 05/89) for TCL Volatile target compounds on 01-13,14,15-92.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analyses:

1. Non-target compounds were not detected in these samples.

2. All surrogate recoveries were within EPA QC limits.

3. All matrix spike recoveries were within EPA QC limits.

4. The laboratory blanks contained the common contaminant methylene chloride at levels less than the CRQL. The laboratory blank 92LVX008-MB1 also contained the common contaminant acetone at a level less than 2x the CRQL. The laboratory blank 92LVK006-MB1 also contained the target compound 1,1-dichloroethene at a level less than the CRQL.

5. Internal standard areas were outside QC limits for sample B015Q7 MS. The associated original and matrix spike duplicate analyses of this sample fulfilled its re-analysis requirement.

Jack R. Tuschall, Ph.D. 2.17.92
Date
Laboratory Manager
Lionville Analytical Laboratory

VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

B015Q7

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9201L963-001

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: AX1F14

Level: (low/med) LOW

Date Received: 01/09/92

% Moisture: not dec. 3

Date Analyzed: 01/15/92

Column: (pack/cap) CAP

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	
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	7	B
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

CLIENT SAMPLE NO.

B015Q7

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9201L963-001

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: AX1F14

Level: (low/med) LOW

Date Received: 01/09/92

% Moisture: not dec. 3

Date Analyzed: 01/15/92

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

B015Q9

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9201L963-002

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: AX1F17

Level: (low/med) LOW

Date Received: 01/09/92

% Moisture: not dec. 4

Date Analyzed: 01/15/92

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	9	B
67-64-1	Acetone	35	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

CLIENT SAMPLE NO.

B015Q9

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9201L963-002

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: AX1F17

Level: (low/med) LOW

Date Received: 01/09/92

% Moisture: not dec. 4

Date Analyzed: 01/15/92

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

B015J1

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9201L963-003

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AK1D17

Level: (low/med) LOW

Date Received: 01/09/92

% Moisture: not dec. _____

Date Analyzed: 01/13/92

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	3	JB
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

CLIENT SAMPLE NO.

B015J1

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9201L963-003

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AK1D17

Level: (low/med) LOW

Date Received: 01/09/92

% Moisture: not dec. _____

Date Analyzed: 01/13/92

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

B015L6

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9201L963-004

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AK1D18

Level: (low/med) LOW

Date Received: 01/09/92

% Moisture: not dec. _____

Date Analyzed: 01/13/92

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	14	B
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B015L6

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9201L963-004

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AK1D18

Level: (low/med) LOW

Date Received: 01/09/92

% Moisture: not dec. _____

Date Analyzed: 01/13/92

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

B015R3

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9201L963-005

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: AX1F18

Level: (low/med) LOW

Date Received: 01/09/92

% Moisture: not dec. 2

Date Analyzed: 01/15/92

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	25	B
67-64-1	Acetone	57	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

CLIENT SAMPLE NO.

B015R3

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL

Lab Sample ID: 9201L963-005

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: AX1F18

Level: (low/med) LOW

Date Received: 01/09/92

% Moisture: not dec. 2

Date Analyzed: 01/15/92

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

B015I3

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9201L963-006

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AK1E04

Level: (low/med) LOW

Date Received: 01/09/92

% Moisture: not dec. _____

Date Analyzed: 01/14/92

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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	4	JB
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	4	JB
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

CLIENT SAMPLE NO.

B015I3

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9201L963-006

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: AK1E04

Level: (low/med) LOW

Date Received: 01/09/92

% Moisture: not dec. _____

Date Analyzed: 01/14/92

Column: (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

Roy F. Weston, Inc. - Lionville Laboratory
Semivolatiles by GC/MS, HSL List

RFW Batch Number: 9201L963 Client: WESTINGHOUSE HANFORD Work Order: 6168-02-01-0000 Report Date: 02/29/92 10:57 Page: 1a

	Cust ID:	B015Q7		B015Q7		B015Q7		B015Q9		B015J1		B015J1	
Sample Information	RFW#:	001		001 MS		001 MSD		002		003		003 MS	
	Matrix:	SOIL		SOIL		SOIL		SOIL		WATER		WATER	
	D.F.:	1.00		1.00		1.00		1.00		1.00		1.00	
	Units:	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/L		ug/L	
Surrogate Recovery	Nitrobenzene-d5	86	%	34	%	33	%	75	%	76	%	75	%
	2-Fluorobiphenyl	89	%	34	%	36	%	79	%	68	%	65	%
	p-Terphenyl-d14	99	%	43	%	43	%	87	%	87	%	87	%
	Phenol-d5	89	%	30	%	33	%	74	%	79	%	80	%
	2-Fluorophenol	95	%	27	%	30	%	75	%	76	%	83	%
	2,4,6-Tribromophenol	79	%	30	%	30	%	61	%	99	%	97	%
			fl		fl		fl		fl		fl		fl
Phenol		350	U	31	%	32	%	350	U	2	J	69	%
bis(2-Chloroethyl)ether		350	U	350	U	350	U	350	U	12	U	12	U
2-Chlorophenol		350	U	30	%	32	%	350	U	12	U	76	%
1,3-Dichlorobenzene		350	U	350	U	350	U	350	U	12	U	12	U
1,4-Dichlorobenzene		350	U	34	%	34	%	350	U	2	J	53	%
Benzyl alcohol		350	U	350	U	350	U	350	U	12	U	12	U
1,2-Dichlorobenzene		350	U	350	U	350	U	350	U	10	J	12	U
2-Methylphenol		350	U	350	U	350	U	350	U	1	J	12	U
bis(2-Chloroisopropyl)ether		350	U	350	U	350	U	350	U	12	U	12	U
4-Methylphenol		350	U	350	U	350	U	350	U	8	J	12	U
N-Nitroso-Di-n-propylamine		350	U	34 *	%	33 *	%	350	U	12	U	68	%
Hexachloroethane		350	U	350	U	350	U	350	U	12	U	12	U
Nitrobenzene		350	U	350	U	350	U	350	U	12	U	12	U
Isophorone		350	U	350	U	350	U	350	U	12	U	12	U
2-Nitrophenol		350	U	350	U	350	U	350	U	12	U	12	U
2,4-Dimethylphenol		350	U	350	U	350	U	350	U	5	J	12	U
Benzoic acid		1800	U	1800	U	1800	U	1800	U	60	U	60	U
bis(2-Chloroethoxy)methane		350	U	350	U	350	U	350	U	12	U	12	U
2,4-Dichlorophenol		350	U	170	J	350	U	350	U	12	U	12	U
1,2,4-Trichlorobenzene		350	U	40	%	39	%	350	U	12	U	65	%
Naphthalene		350	U	350	U	350	U	350	U	12	U	12	U
4-Chloroaniline		350	U	350	U	350	U	350	U	12	U	12	U
Hexachlorobutadiene		350	U	350	U	350	U	350	U	12	U	12	U
4-Chloro-3-methylphenol		350	U	34	%	34	%	350	U	12	U	90	%
2-Methylnaphthalene		350	U	350	U	350	U	350	U	12	U	12	U
Hexachlorocyclopentadiene		350	U	350	U	350	U	350	U	12	U	12	U

*= Outside of EPA CLP QC limits.

0050008
0613422.0325

RFW Batch Number: 9201L963 Client: WESTINGHOUSE HANFORD Work Order: 6168-02-01-0000

Cust ID:	B015Q7		B015Q7		B015Q7		B015Q9		B015J1		B015J1	
RFW#:	001		001 MS		001 MSD		002		003		003 MS	
2,4,6-Trichlorophenol	350	U	350	U	350	U	350	U	12	U	12	U
2,4,5-Trichlorophenol	1800	U	1800	U	1800	U	1800	U	60	U	60	U
2-Chloronaphthalene	350	U	350	U	350	U	350	U	12	U	12	U
2-Nitroaniline	1800	U	1800	U	1800	U	1800	U	60	U	60	U
Dimethylphthalate	350	U	350	U	350	U	350	U	12	U	12	U
Acenaphthylene	350	U	350	U	350	U	350	U	12	U	12	U
2,6-Dinitrotoluene	350	U	350	U	350	U	350	U	12	U	12	U
3-Nitroaniline	1800	U	1800	U	1800	U	1800	U	60	U	60	U
Acenaphthene	350	U	35	%	35	%	350	U	12	U	82	%
2,4-Dinitrophenol	1800	U	1800	U	1800	U	1800	U	60	U	60	U
4-Nitrophenol	1800	U	30	%	25	%	1800	U	60	U	75	%
Dibenzofuran	350	U	350	U	350	U	350	U	12	U	12	U
2,4-Dinitrotoluene	350	U	32	%	31	%	350	U	12	U	89	%
Diethylphthalate	350	U	350	U	350	U	350	U	12	U	12	U
4-Chlorophenyl-phenylether	350	U	350	U	350	U	350	U	12	U	12	U
Fluorene	350	U	350	U	350	U	350	U	12	U	12	U
4-Nitroaniline	1800	U	1800	U	1800	U	1800	U	60	U	60	U
4,6-Dinitro-2-methylphenol	1800	U	1800	U	1800	U	1800	U	60	U	60	U
N-Nitrosodiphenylamine (1)	350	U	350	U	350	U	350	U	12	U	12	U
4-Bromophenyl-phenylether	350	U	350	U	350	U	350	U	12	U	12	U
Hexachlorobenzene	350	U	350	U	350	U	350	U	12	U	12	U
Pentachlorophenol	1800	U	32	%	31	%	1800	U	60	U	43	%
Phenanthrene	350	U	350	U	350	U	350	U	12	U	12	U
Anthracene	350	U	350	U	350	U	350	U	12	U	12	U
Di-n-Butylphthalate	58	JB	55	JB	46	JB	87	JB	4	JB	5	JB
Fluoranthene	350	U	350	U	350	U	350	U	12	U	12	U
Pyrene	350	U	45	%	44	%	350	U	12	U	80	%
Butylbenzylphthalate	350	U	350	U	350	U	350	U	12	U	12	U
3,3'-Dichlorobenzidine	700	U	700	U	700	U	700	U	24	U	24	U
Benzo(a)anthracene	350	U	350	U	350	U	350	U	12	U	12	U
Chrysene	350	U	350	U	350	U	350	U	12	U	12	U
bis(2-Ethylhexyl)phthalate	350	U	350	U	350	U	80	J	3	JB	2	JB
Di-n-Octyl phthalate	350	U	350	U	350	U	350	U	12	U	12	U
Benzo(b)fluoranthene	350	U	350	U	350	U	350	U	12	U	12	U
Benzo(k)fluoranthene	350	U	350	U	350	U	350	U	12	U	12	U
Benzo(a)pyrene	350	U	350	U	350	U	350	U	12	U	12	U
Indeno(1,2,3-cd)pyrene	350	U	350	U	350	U	350	U	12	U	12	U
Dibenzo(a,h)anthracene	350	U	350	U	350	U	350	U	12	U	12	U
Benzo(g,h,i)perylene	350	U	350	U	350	U	350	U	12	U	12	U

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

9403122.0976

Roy F. Weston, Inc. - Lionville Laboratory
Semivolatiles by GC/MS, HSL List

RFW Batch Number: 9201L963 Client: WESTINGHOUSE HANFORD Work Order: 6168-02-01-0000 Report Date: 02/29/92 10:57 Page: 2a

	Cust ID:	B015J1		B015R3		B015I3		SBLK		SBLK RE		SBLK BS	
Sample Information	RFW#:	003 MSD		005		006		92LE0041-MB1		92LE0041-MB1		92LE0041-MB1	
	Matrix:	WATER		SOIL		WATER		SOIL		SOIL		SOIL	
	D.F.:	1.00		1.00		1.00		1.00		1.00		1.00	
	Units:	ug/L		ug/Kg		ug/L		ug/Kg		ug/Kg		ug/Kg	
Surrogate Recovery	Nitrobenzene-d5	68	%	67	%	75	%	90	%	92	%	82	%
	2-Fluorobiphenyl	61	%	72	%	75	%	85	%	84	%	81	%
	p-Terphenyl-d14	89	%	100	%	92	%	101	%	111	%	92	%
	Phenol-d5	75	%	62	%	76	%	86	%	83	%	83	%
	2-Fluorophenol	74	%	59	%	68	%	91	%	83	%	88	%
	2,4,6-Tribromophenol	82	%	69	%	72	%	68	%	68	%	74	%
Phenol		68	%	340	U	11	U	330	U	330	U	93 *	%
bis(2-Chloroethyl)ether		12	U	340	U	11	U	330	U	330	U	330	U
2-Chlorophenol		71	%	340	U	11	U	330	U	330	U	88	%
1,3-Dichlorobenzene		12	U	340	U	11	U	330	U	330	U	330	U
1,4-Dichlorobenzene		49	%	340	U	11	U	330	U	330	U	94	%
Benzyl alcohol		12	U	340	U	11	U	330	U	330	U	330	U
1,2-Dichlorobenzene		12	U	340	U	11	U	330	U	330	U	330	U
2-Methylphenol		12	U	340	U	11	U	330	U	330	U	330	U
bis(2-Chloroisopropyl)ether		12	U	340	U	11	U	330	U	330	U	330	U
4-Methylphenol		12	U	340	U	11	U	330	U	330	U	330	U
N-Nitroso-Di-n-propylamine		63	%	340	U	11	U	330	U	330	U	96	%
Hexachloroethane		12	U	340	U	11	U	330	U	330	U	330	U
Nitrobenzene		12	U	340	U	11	U	330	U	330	U	330	U
Isophorone		12	U	340	U	11	U	330	U	330	U	330	U
2-Nitrophenol		12	U	340	U	11	U	330	U	330	U	330	U
2,4-Dimethylphenol		12	U	340	U	11	U	330	U	330	U	330	U
Benzoic acid		60	U	1700	U	55	U	1700	U	1700	U	1700	U
bis(2-Chloroethoxy)methane		12	U	340	U	11	U	330	U	330	U	330	U
2,4-Dichlorophenol		12	U	340	U	11	U	330	U	330	U	330	U
1,2,4-Trichlorobenzene		58	%	340	U	11	U	330	U	330	U	108 *	%
Naphthalene		12	U	340	U	11	U	330	U	330	U	330	U
4-Chloroaniline		12	U	340	U	11	U	330	U	330	U	330	U
Hexachlorobutadiene		12	U	340	U	11	U	330	U	330	U	330	U
4-Chloro-3-methylphenol		87	%	340	U	11	U	330	U	330	U	92	%
2-Methylnaphthalene		12	U	340	U	11	U	330	U	330	U	330	U
Hexachlorocyclopentadiene		12	U	340	U	11	U	330	U	330	U	330	U

*= Outside of EPA CLP QC limits.

Cust ID:	B015J1		B015R3		B015I3		SBLK		SBLK RE		SBLK BS	
RFW#:	003 MSD		005		006		92LE0041-MB1		92LE0041-MB1		92LE0041-MB1	
2,4,6-Trichlorophenol	12	U	340	U	11	U	330	U	330	U	330	U
2,4,5-Trichlorophenol	60	U	1700	U	55	U	1700	U	1700	U	1700	U
2-Chloronaphthalene	12	U	340	U	11	U	330	U	330	U	330	U
2-Nitroaniline	60	U	1700	U	55	U	1700	U	1700	U	1700	U
Dimethylphthalate	12	U	340	U	11	U	330	U	330	U	330	U
Acenaphthylene	12	U	340	U	11	U	330	U	330	U	330	U
2,6-Dinitrotoluene	12	U	340	U	11	U	330	U	330	U	330	U
3-Nitroaniline	60	U	1700	U	55	U	1700	U	1700	U	1700	U
Acenaphthene	76	%	340	U	11	U	330	U	330	U	98	%
2,4-Dinitrophenol	60	U	1700	U	55	U	1700	U	1700	U	1700	U
4-Nitrophenol	59	%	1700	U	55	U	1700	U	1700	U	78	%
Dibenzofuran	12	U	340	U	11	U	330	U	330	U	330	U
2,4-Dinitrotoluene	84	%	340	U	11	U	330	U	330	U	97 *	%
Diethylphthalate	12	U	340	U	11	U	330	U	330	U	330	U
4-Chlorophenyl-phenylether	12	U	340	U	11	U	330	U	330	U	330	U
Fluorene	12	U	340	U	11	U	330	U	330	U	330	U
4-Nitroaniline	60	U	1700	U	55	U	1700	U	1700	U	1700	U
4,6-Dinitro-2-methylphenol	60	U	1700	U	55	U	1700	U	1700	U	1700	U
N-Nitrosodiphenylamine (1)	12	U	340	U	11	U	330	U	330	U	330	U
4-Bromophenyl-phenylether	12	U	340	U	11	U	330	U	330	U	330	U
Hexachlorobenzene	12	U	340	U	11	U	330	U	330	U	330	U
Pentachlorophenol	24	%	1700	U	55	U	1700	U	1700	U	86	%
Phenanthrene	12	U	340	U	11	U	330	U	330	U	330	U
Anthracene	12	U	340	U	11	U	330	U	330	U	330	U
Di-n-Butylphthalate	4	JB	77	JB	5	JB	53	J	39	JB	40	JB
Fluoranthene	12	U	340	U	11	U	330	U	330	U	330	U
Pyrene	83	%	340	U	11	U	330	U	330	U	106	%
Butylbenzylphthalate	12	U	340	U	11	U	330	U	330	U	330	U
3,3'-Dichlorobenzidine	24	U	680	U	22	U	670	U	670	U	670	U
Benzo(a)anthracene	12	U	340	U	11	U	330	U	330	U	330	U
Chrysene	12	U	340	U	11	U	330	U	330	U	330	U
bis(2-Ethylhexyl)phthalate	3	JB	41	J	3	JB	330	U	37	J	330	U
Di-n-Octyl phthalate	12	U	340	U	11	U	330	U	330	U	330	U
Benzo(b)fluoranthene	12	U	340	U	11	U	330	U	330	U	330	U
Benzo(k)fluoranthene	12	U	340	U	11	U	330	U	330	U	330	U
Benzo(a)pyrene	12	U	340	U	11	U	330	U	330	U	330	U
Indeno(1,2,3-cd)pyrene	12	U	340	U	11	U	330	U	330	U	330	U
Dibenzo(a,h)anthracene	12	U	340	U	11	U	330	U	330	U	330	U
Benzo(g,h,i)perylene	12	U	340	U	11	U	330	U	330	U	330	U

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

WESTON

ROY F. WESTON, INC.
Lionville Laboratory

CLIENT: WESTINGHOUSE HANFORD **SAMPLES RECEIVED:** 01-09-92
RFW #: 9201L963,SEMIVOLATILE
W.O. #: 6168-02-01

NARRATIVE

The set of samples consisted of two (2) water samples and three (3) soil samples collected on 01-07-92.

The samples were extracted on 01-10,14-92 and analyzed according to criteria set forth in CLP SOW 02/88 (Rev. 05/89) for TCL Semivolatile target compounds on 01-22,23,24,27,28,29-92.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analyses:

1. Non-target compounds were detected in these samples.

2. All surrogate recoveries were within EPA QC limits.

3. All water blank spike recoveries were within EPA QC limits.

4. All water matrix spike recoveries were within EPA QC limits.

5. Three (3) of eleven (11) soil blank spike recoveries were outside EPA QC limits.

6. Two (2) of twenty-two (22) soil matrix spike recoveries were outside EPA QC limits.

7. The laboratory blank 92LE0041-MB1 contained the common contaminant di-n-butylphthalate at a level less than the CRQL. The laboratory blank 92LE0057-MB1 contained the common contaminants di-n-butylphthalate and bis(2-ethylhexyl)phthalate at levels less than the CRQL.

WESTON

8. Internal standard areas were outside QC limits for method blank 92LE0041-MB1. The method blank was re-analyzed on 01-28-92 and reported.

03.09.92.

Jack R. Tuschall, Ph.D.
Laboratory Manager
Lionville Analytical Laboratory

Date

9613422.0331 IB 0000938

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

B015Q7

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9201L963-001

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S012718

Level: (low/med) LOW Date Received: 01/09/92

% Moisture: not dec. 5 dec. Date Extracted: 01/10/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/28/92

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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
100-51-6	Benzyl alcohol	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	bis(2-Chloroisopropyl)ether	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
65-85-0	Benzoic acid	1800	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	1800	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	1800	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

B015Q7

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9201L963-001

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S012718

Level: (low/med) LOW Date Received: 01/09/92

% Moisture: not dec. 5 dec. Date Extracted: 01/10/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/28/92

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	1800	U
83-32-9	Acenaphthene	350	U
51-28-5	2,4-Dinitrophenol	1800	U
100-02-7	4-Nitrophenol	1800	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U
100-01-6	4-Nitroaniline	1800	U
534-52-1	4,6-Dinitro-2-methylphenol	1800	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	1800	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
84-74-2	Di-n-Butylphthalate	58	JB
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3'-Dichlorobenzidine	700	U
56-55-3	Benzo(a)anthracene	350	U
218-01-9	Chrysene	350	U
117-81-7	bis(2-Ethylhexyl)phthalate	350	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	Dibenzo(a,h)anthracene	350	U
191-24-2	Benzo(g,h,i)perylene	350	U

(1) - Cannot be separated from Diphenylamine

9615422.0333 0000038

1F

CLIENT SAMPLE NO.

B015Q7

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9201L963-001

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S012718

Level: (low/med) LOW Date Received: 01/09/92

% Moisture: not dec. 5 dec. Date Extracted: 01/10/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/28/92

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 1.00

Number TICs found: 4

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.48	200	JB
2.	UNKNOWN	5.37	200	J
3.	UNKNOWN	5.72	200	J
4.	UNKNOWN	6.92	200	J

CLIENT SAMPLE NO.

B015Q9

SEMIVOLATILE ORGANICS ANALYSIS SHEET

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9201L963-002

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S012719

Level: (low/med) LOW Date Received: 01/09/92

% Moisture: not dec. 5 dec. Date Extracted: 01/10/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/28/92

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
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
100-51-6	Benzyl alcohol	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	bis(2-Chloroisopropyl)ether	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
65-85-0	Benzoic acid	1800	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	1800	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	1800	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

B015Q9

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9201L963-002

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S012719

Level: (low/med) LOW Date Received: 01/09/92

% Moisture: not dec. 5 dec. Date Extracted: 01/10/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/28/92

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	1800	U
83-32-9	Acenaphthene	350	U
51-28-5	2,4-Dinitrophenol	1800	U
100-02-7	4-Nitrophenol	1800	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U
100-01-6	4-Nitroaniline	1800	U
534-52-1	4,6-Dinitro-2-methylphenol	1800	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	1800	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
84-74-2	Di-n-Butylphthalate	87	JB
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3'-Dichlorobenzidine	700	U
56-55-3	Benzo(a)anthracene	350	U
218-01-9	Chrysene	350	U
117-81-7	bis(2-Ethylhexyl)phthalate	80	J
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	Dibenzo(a,h)anthracene	350	U
191-24-2	Benzo(g,h,i)perylene	350	U

(1) - Cannot be separated from Diphenylamine

9613422.0336 IF 0000054

CLIENT SAMPLE NO.

B015Q9

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9201L963-002

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S012719

Level: (low/med) LOW Date Received: 01/09/92

% Moisture: not dec. 5 dec. Date Extracted: 01/10/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/28/92

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 1.00

Number TICs found: 6

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.48	200	JB
2.	UNKNOWN	5.37	200	J
3.	UNKNOWN	5.87	100	J
4.	UNKNOWN	7.22	200	J
5.	UNKNOWN	15.70	100	J
6.	PHTHALATE	18.68	100	J

1B

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

B015J1

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 9201L963-003

Sample wt/vol: 850 (g/mL) ML Lab File ID: V012308

Level: (low/med) LOW Date Received: 01/09/92

% Moisture: not dec. _____ dec. Date Extracted: 01/14/92

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 01/23/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	2	J
111-44-4	bis(2-Chloroethyl)ether	12	U
95-57-8	2-Chlorophenol	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	2	J
100-51-6	Benzyl alcohol	12	U
95-50-1	1,2-Dichlorobenzene	10	J
95-48-7	2-Methylphenol	1	J
108-60-1	bis(2-Chloroisopropyl)ether	12	U
106-44-5	4-Methylphenol	8	J
621-64-7	N-Nitroso-Di-n-propylamine	12	U
67-72-1	Hexachloroethane	12	U
98-95-3	Nitrobenzene	12	U
78-59-1	Isophorone	12	U
88-75-5	2-Nitrophenol	12	U
105-67-9	2,4-Dimethylphenol	5	J
65-85-0	Benzoic acid	60	U
111-91-1	bis(2-Chloroethoxy)methane	12	U
120-83-2	2,4-Dichlorophenol	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U
91-20-3	Naphthalene	12	U
106-47-8	4-Chloroaniline	12	U
87-68-3	Hexachlorobutadiene	12	U
59-50-7	4-Chloro-3-methylphenol	12	U
91-57-6	2-Methylnaphthalene	12	U
77-47-4	Hexachlorocyclopentadiene	12	U
88-06-2	2,4,6-Trichlorophenol	12	U
95-95-4	2,4,5-Trichlorophenol	60	U
91-58-7	2-Chloronaphthalene	12	U
88-74-4	2-Nitroaniline	60	U
131-11-3	Dimethylphthalate	12	U
208-96-8	Acenaphthylene	12	U
606-20-2	2,6-Dinitrotoluene	12	U

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

B015J1

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 9201L963-003

Sample wt/vol: 850 (g/mL) ML Lab File ID: V012308

Level: (low/med) LOW Date Received: 01/09/92

% Moisture: not dec. _____ dec. Date Extracted: 01/14/92

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 01/23/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	60	U
83-32-9	Acenaphthene	12	U
51-28-5	2,4-Dinitrophenol	60	U
100-02-7	4-Nitrophenol	60	U
132-64-9	Dibenzofuran	12	U
121-14-2	2,4-Dinitrotoluene	12	U
84-66-2	Diethylphthalate	12	U
7005-72-3	4-Chlorophenyl-phenylether	12	U
86-73-7	Fluorene	12	U
100-01-6	4-Nitroaniline	60	U
534-52-1	4,6-Dinitro-2-methylphenol	60	U
86-30-6	N-Nitrosodiphenylamine (1)	12	U
101-55-3	4-Bromophenyl-phenylether	12	U
118-74-1	Hexachlorobenzene	12	U
87-86-5	Pentachlorophenol	60	U
85-01-8	Phenanthrene	12	U
120-12-7	Anthracene	12	U
84-74-2	Di-n-Butylphthalate	4	JB
206-44-0	Fluoranthene	12	U
129-00-0	Pyrene	12	U
85-68-7	Butylbenzylphthalate	12	U
91-94-1	3,3'-Dichlorobenzidine	24	U
56-55-3	Benzo(a)anthracene	12	U
218-01-9	Chrysene	12	U
117-81-7	bis(2-Ethylhexyl)phthalate	3	JB
117-84-0	Di-n-Octyl phthalate	12	U
205-99-2	Benzo(b)fluoranthene	12	U
207-08-9	Benzo(k)fluoranthene	12	U
50-32-8	Benzo(a)pyrene	12	U
193-39-5	Indeno(1,2,3-cd)pyrene	12	U
53-70-3	Dibenzo(a,h)anthracene	12	U
191-24-2	Benzo(g,h,i)perylene	12	U

(1) - Cannot be separated from Diphenylamine

IF

CLIENT SAMPLE NO.

B015J1

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9201L963-003

Sample wt/vol: 850 (g/mL) ML

Lab File ID: V012308

Level: (low/med) LOW

Date Received: 01/09/92

% Moisture: not dec. _____ dec.

Date Extracted: 01/14/92

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 01/23/92

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

Dilution Factor: 1.00

Number TICs found: 14

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ORGANIC ACID	5.25	40	J
2.	CYCLOHEXENONE	6.32	7	J
3.	ORGANIC ACID	6.48	20	J
4.	TRICHLOROPROPENE	6.67	20	JB
5.	ORGANIC ACID	8.48	20	J
6.	ORGANIC ACID	10.08	10	J
7.	DIMETHYL PHENOL	11.05	30	J
8.	ORGANIC ACID	12.70	8	J
9.	ORGANIC ACID	14.27	5	J
10.	UNKNOWN	15.88	4	JB
11.	UNKNOWN	29.68	300	J
12.	UNKNOWN	30.22	20	JB
13.	UNKNOWN	35.48	20	J
14.	UNKNOWN	37.02	30	J

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

B015R3

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9201L963-005

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S012806

Level: (low/med) LOW Date Received: 01/09/92

% Moisture: not dec. 3 dec. Date Extracted: 01/10/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/28/92

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	340	U
111-44-4	bis(2-Chloroethyl)ether	340	U
95-57-8	2-Chlorophenol	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
100-51-6	Benzyl alcohol	340	U
95-50-1	1,2-Dichlorobenzene	340	U
95-48-7	2-Methylphenol	340	U
108-60-1	bis(2-Chloroisopropyl)ether	340	U
106-44-5	4-Methylphenol	340	U
621-64-7	N-Nitroso-Di-n-propylamine	340	U
67-72-1	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
65-85-0	Benzoic acid	1700	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	340	U
87-68-3	Hexachlorobutadiene	340	U
59-50-7	4-Chloro-3-methylphenol	340	U
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	340	U
208-96-8	Acenaphthylene	340	U
606-20-2	2,6-Dinitrotoluene	340	U

9613422.0341 IC 0000113

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

B015R3

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9201L963-005

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S012806

Level: (low/med) LOW Date Received: 01/09/92

% Moisture: not dec. 3 dec. Date Extracted: 01/10/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/28/92

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	340	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	340	U
84-66-2	Diethylphthalate	340	U
7005-72-3	4-Chlorophenyl-phenylether	340	U
86-73-7	Fluorene	340	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	340	U
120-12-7	Anthracene	340	U
84-74-2	Di-n-Butylphthalate	77	JB
206-44-0	Fluoranthene	340	U
129-00-0	Pyrene	340	U
85-68-7	Butylbenzylphthalate	340	U
91-94-1	3,3'-Dichlorobenzidine	680	U
56-55-3	Benzo(a)anthracene	340	U
218-01-9	Chrysene	340	U
117-81-7	bis(2-Ethylhexyl)phthalate	41	J
117-84-0	Di-n-Octyl phthalate	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
50-32-8	Benzo(a)pyrene	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U
53-70-3	Dibenzo(a,h)anthracene	340	U
191-24-2	Benzo(g,h,i)perylene	340	U

(1) - Cannot be separated from Diphenylamine

9613422.0342 0005114

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B015R3

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9201L963-005

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S012806

Level: (low/med) LOW Date Received: 01/09/92

% Moisture: not dec. 3 dec. Date Extracted: 01/10/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/28/92

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 1.00

Number TICs found: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALDOL CONDENSATE	5.37	200	JA
2.	UNKNOWN	7.37	200	JB
3.	PHTHALATE	18.68	200	J
4.	ADIPATE	22.10	200	J
5.	UNKNOWN	25.65	100	J

1B

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

B015I3

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 9201L963-006

Sample wt/vol: 910 (g/mL) ML Lab File ID: V012311

Level: (low/med) LOW Date Received: 01/09/92

% Moisture: not dec. _____ dec. Date Extracted: 01/14/92

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 01/24/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
108-95-2	Phenol	11	U
111-44-4	bis(2-Chloroethyl)ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
100-51-6	Benzyl alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	2-Methylphenol	11	U
108-60-1	bis(2-Chloroisopropyl)ether	11	U
106-44-5	4-Methylphenol	11	U
621-64-7	N-Nitroso-Di-n-propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic acid	55	U
111-91-1	bis(2-Chloroethoxy)methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	55	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	55	U
131-11-3	Dimethylphthalate	11	U
208-96-8	Acenaphthylene	11	U
606-20-2	2,6-Dinitrotoluene	11	U

9613422.0344 0000132

IC

SEMIVOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

B015I3

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 9201L963-006

Sample wt/vol: 910 (g/mL) ML Lab File ID: V012311

Level: (low/med) LOW Date Received: 01/09/92

% Moisture: not dec. _____ dec. Date Extracted: 01/14/92

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 01/24/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	
99-09-2	3-Nitroaniline	55	U
83-32-9	Acenaphthene	11	U
51-28-5	2,4-Dinitrophenol	55	U
100-02-7	4-Nitrophenol	55	U
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenyl-phenylether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	55	U
534-52-1	4,6-Dinitro-2-methylphenol	55	U
86-30-6	N-Nitrosodiphenylamine (1)	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	55	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Di-n-Butylphthalate	5	JB
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	22	U
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	3	JB
117-84-0	Di-n-Octyl phthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenzo(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

(1) - Cannot be separated from Diphenylamine

9613422.0545 0000133

IF

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

B015I3

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 9201L963-006

Sample wt/vol: 910 (g/mL) ML Lab File ID: V012311

Level: (low/med) LOW Date Received: 01/09/92

% Moisture: not dec. _____ dec. Date Extracted: 01/14/92

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 01/24/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	TRICHLOROPROPENE	6.67	30	JB
2.	UNKNOWN	9.02	6	J
3.	UNKNOWN	10.70	7	JB
4.	UNKNOWN	15.87	6	JB
5.	UNKNOWN	30.20	30	JB

Roy F. Weston, Inc. - Lionville Laboratory
Pesticide/PCBs by GC, CLP List

RFW Batch Number: 9201L963 | Client: WESTINGHOUSE HANFORD | Work Order: 6168-02-01-0000 | Report Date: 02/05/92 17:48 | Page: 1

	Cust ID:	B015Q7		B015Q9		B015J1		B015J1		B015J1		B015R3	
Sample Information	RFW#:	001		002		003		003 MS		003 MSD		005	
	Matrix:	SOIL		SOIL		WATER		WATER		WATER		SOIL	
	D.F.:	1.00		1.00		1.00		2.00		2.00		1.00	
	Units:	ug/Kg		ug/Kg		ug/L		ug/L		ug/L		ug/Kg	
Surrogate: Di-n-butylchlorendate		100	%	81	%	119	%	126	%	127	%	105	%
			fl		fl		fl		fl		fl		fl
Alpha-BHC		8.2	U	8.1	U	0.052	U	0.20	U	0.20	U	8.1	U
Beta-BHC		8.2	U	8.1	U	0.052	U	0.20	U	0.20	U	8.1	U
Delta-BHC		8.2	U	8.1	U	0.052	U	0.20	U	0.20	U	8.1	U
gamma-BHC (Lindane)		8.2	U	8.1	U	0.052	U	75	%	70	%	8.1	U
Heptachlor		8.2	U	8.1	U	0.052	U	110	%	120	%	8.1	U
Aldrin		8.2	U	8.1	U	0.052	U	75	%	75	%	8.1	U
Heptachlor epoxide		8.2	U	8.1	U	0.052	U	0.20	U	0.20	U	8.1	U
Endosulfan I		8.2	U	8.1	U	0.052	U	0.20	U	0.20	U	8.1	U
Dieldrin		16	U	16	U	0.10	U	82	%	80	%	16	U
4,4'-DDE		16	U	16	U	0.10	U	0.40	U	0.40	U	16	U
Endrin		16	U	16	U	0.10	U	96	%	96	%	16	U
Endosulfan II		16	U	16	U	0.10	U	0.40	U	0.40	U	16	U
4,4'-DDD		16	U	16	U	0.10	U	0.40	U	0.40	U	16	U
Endosulfan sulfate		16	U	16	U	0.10	U	0.40	U	0.40	U	16	U
4,4'-DDT		16	U	16	U	0.10	U	88	%	90	%	16	U
Methoxychlor		82	U	81	U	0.52	U	2.0	U	2.0	U	81	U
Endrin ketone		16	U	16	U	0.10	U	0.40	U	0.40	U	16	U
alpha-Chlordane		82	U	81	U	0.52	U	2.0	U	2.0	U	81	U
gamma-Chlordane		82	U	81	U	0.52	U	2.0	U	2.0	U	81	U
Toxaphene		160	U	160	U	1.0	U	4.0	U	4.0	U	160	U
Aroclor-1016		82	U	81	U	0.52	U	2.0	U	2.0	U	81	U
Aroclor-1221		82	U	81	U	0.52	U	2.0	U	2.0	U	81	U
Aroclor-1232		82	U	81	U	0.52	U	2.0	U	2.0	U	81	U
Aroclor-1242		82	U	81	U	0.52	U	2.0	U	2.0	U	81	U
Aroclor-1248		82	U	81	U	0.52	U	2.0	U	2.0	U	81	U
Aroclor-1254		160	U	160	U	1.0	U	4.0	U	4.0	U	160	U
Aroclor-1260		160	U	160	U	1.0	U	4.0	U	4.0	U	160	U

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

Roy F. Weston, Inc. - Lionville Laboratory
Pesticide/PCBs by GC, CLP List

Report Date: 02/05/92 17:48

RFW Batch Number: 9201L963 Client: WESTINGHOUSE HANFORD Work Order: 6168-02-01-0000

Cust ID:	B015R3		B015R3		B015I3		PBLK		PBLK BS		PBLK	
Sample Information RFW#:	005 MS		005 MSD		006		92LE0038-MB1		92LE0038-MB1		92LE0049-MB1	
Matrix:	SOIL		SOIL		WATER		SOIL		SOIL		WATER	
D.F.:	4.00		4.00		1.00		1.00		4.00		1.00	
Units:	ug/Kg		ug/Kg		ug/L		ug/Kg		ug/Kg		ug/L	
Surrogate: Di-n-butylchlorendate	103	%	70	%	98	%	119	%	150	%	117	%
		fl		fl		fl		fl		fl		fl
Alpha-BHC	33	U	32	U	0.052	U	8.0	U	32	U	0.050	U
Beta-BHC	33	U	32	U	0.052	U	8.0	U	32	U	0.050	U
Delta-BHC	33	U	32	U	0.052	U	8.0	U	32	U	0.050	U
gamma-BHC (Lindane)	62	%	48	%	0.052	U	8.0	U	65	%	0.050	U
Heptachlor	I	%	108	%	0.052	U	8.0	U	115	%	0.050	U
Aldrin	50	%	35	%	0.052	U	8.0	U	48	%	0.050	U
Heptachlor epoxide	33	U	32	U	0.052	U	8.0	U	32	U	0.050	U
Endosulfan I	33	U	32	U	0.052	U	8.0	U	32	U	0.050	U
Dieldrin	80	%	62	%	0.10	U	16	U	82	%	0.10	U
4,4'-DDE	66	U	63	U	0.10	U	16	U	64	U	0.10	U
Endrin	76	%	71	%	0.10	U	16	U	82	%	0.10	U
Endosulfan II	66	U	63	U	0.10	U	16	U	64	U	0.10	U
4,4'-DDD	66	U	63	U	0.10	U	16	U	64	U	0.10	U
Endosulfan sulfate	66	U	63	U	0.10	U	16	U	64	U	0.10	U
4,4'-DDT	79	%	97	%	0.10	U	16	U	81	%	0.10	U
Methoxychlor	330	U	320	U	0.52	U	80	U	320	U	0.50	U
Endrin ketone	66	U	63	U	0.10	U	16	U	64	U	0.10	U
alpha-Chlordane	330	U	320	U	0.52	U	80	U	320	U	0.50	U
gamma-Chlordane	330	U	320	U	0.52	U	80	U	320	U	0.50	U
Toxaphene	660	U	630	U	1.0	U	160	U	640	U	1.0	U
Aroclor-1016	330	U	320	U	0.52	U	80	U	320	U	0.50	U
Aroclor-1221	330	U	320	U	0.52	U	80	U	320	U	0.50	U
Aroclor-1232	330	U	320	U	0.52	U	80	U	320	U	0.50	U
Aroclor-1242	330	U	320	U	0.52	U	80	U	320	U	0.50	U
Aroclor-1248	330	U	320	U	0.52	U	80	U	320	U	0.50	U
Aroclor-1254	660	U	630	U	1.0	U	160	U	640	U	1.0	U
Aroclor-1260	660	U	630	U	1.0	U	160	U	640	U	1.0	U

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.
%= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC

ROY F. WESTON, INC.
Lionville Laboratory

CLIENT: WESTINGHOUSE HANFORD **SAMPLES RECEIVED:** 01-09-92
RFW #: 9201L963, PEST/PCB
W.O. #: 6168-02-01

NARRATIVE

The set of samples consisted of three (3) soil samples and two (2) water samples collected on 01-07-92.

The samples were extracted on 01-10,13-92 and analyzed according to criteria set forth in the Contract Laboratory Program for Pesticide and PCB target compounds on 02-01,02,03-92.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analyses:

NOTE: Analysis of the samples in this data package were completed in two (2) separate run sequences.

1. Linearity and breakdown criteria were met on the primary columns.

2. The first analysis was initiated on 01-31-92. For continuing calibration standards analyzed prior to the sample extracts, the 15% criteria for calibration factors were exceeded for 4,4'-DDT on the SP2250/2401 column on 02-01-92 at 14:44. The calibration data indicated an increase in instrument response for 4,4'-DDT, so the ability to identify the compound was not impacted.

   Retention time criteria were met for all compounds on both the primary and confirmation columns in standards analyzed prior to the sample extracts.

3. For the second analysis initiated on 02-02-92, continuing calibration criteria were met for all compounds on both the primary and confirmation columns in standards analyzed prior to the sample extracts.

   Retention time criteria were met for all compounds on both the primary and confirmation columns.

4. All surrogate recoveries were within EPA QC limits.

WESTON

5. All obtainable matrix spike recoveries were within EPA QC limits.

6. All blank spike recoveries were within EPA QC limits.

7. The blank spike and matrix spike samples required dilutions to maintain the pesticide concentrations within the linear range of the instrument.

Margaret M. Leahy 2-13-92

Jack R. Tuschall, Ph.D. Date
Laboratory Manager
Lionville Analytical Laboratory

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1D

PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

B015Q7

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9201L963-001

Sample wt/vol: 30.4 (g/mL) G Lab File ID: 01319213.31

Level: (low/med) LOW Date Received: 01/09/92

% Moisture: not dec. 3 dec. Date Extracted: 01/10/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 02/01/92

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
319-84-6	Alpha-BHC	8.2	U
319-85-7	Beta-BHC	8.2	U
319-86-8	Delta-BHC	8.2	U
58-89-9	gamma-BHC (Lindane)	8.2	U
76-44-8	Heptachlor	8.2	U
309-00-2	Aldrin	8.2	U
1024-57-3	Heptachlor epoxide	8.2	U
959-98-8	Endosulfan I	8.2	U
60-57-1	Dieldrin	16	U
72-55-9	4,4'-DDE	16	U
72-20-8	Endrin	16	U
33213-65-9	Endosulfan II	16	U
72-54-8	4,4'-DDD	16	U
1031-07-8	Endosulfan sulfate	16	U
50-29-3	4,4'-DDT	16	U
72-43-5	Methoxychlor	82	U
53494-70-5	Endrin ketone	16	U
5103-71-9	alpha-Chlordane	82	U
5103-74-2	gamma-Chlordane	82	U
8001-35-2	Toxaphene	160	U
12674-11-2	Aroclor-1016	82	U
11104-28-2	Aroclor-1221	82	U
11141-16-5	Aroclor-1232	82	U
53469-21-9	Aroclor-1242	82	U
12672-29-6	Aroclor-1248	82	U
11097-69-1	Aroclor-1254	160	U
11096-82-5	Aroclor-1260	160	U

DS 2-7-92

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1D

PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

B015Q9

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9201L963-002

Sample wt/vol: 31.0 (g/mL) G Lab File ID: 01319213.34

Level: (low/med) LOW Date Received: 01/09/92

% Moisture: not dec. 4 dec. Date Extracted: 01/10/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 02/01/92

GPC Cleanup: (Y/N) Y pH: 8.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
319-84-6	Alpha-BHC	8.1	U
319-85-7	Beta-BHC	8.1	U
319-86-8	Delta-BHC	8.1	U
58-89-9	gamma-BHC (Lindane)	8.1	U
76-44-8	Heptachlor	8.1	U
309-00-2	Aldrin	8.1	U
1024-57-3	Heptachlor epoxide	8.1	U
959-98-8	Endosulfan I	8.1	U
60-57-1	Dieldrin	16	U
72-55-9	4,4'-DDE	16	U
72-20-8	Endrin	16	U
33213-65-9	Endosulfan II	16	U
72-54-8	4,4'-DDD	16	U
1031-07-8	Endosulfan sulfate	16	U
50-29-3	4,4'-DDT	16	U
72-43-5	Methoxychlor	81	U
53494-70-5	Endrin ketone	16	U
5103-71-9	alpha-Chlordane	81	U
5103-74-2	gamma-Chlordane	81	U
8001-35-2	Toxaphene	160	U
12674-11-2	Aroclor-1016	81	U
11104-28-2	Aroclor-1221	81	U
11141-16-5	Aroclor-1232	81	U
53469-21-9	Aroclor-1242	81	U
12672-29-6	Aroclor-1248	81	U
11097-69-1	Aroclor-1254	160	U
11096-82-5	Aroclor-1260	160	U

DS 2-7-92

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PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

B015J1

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 9201L963-003

Sample wt/vol: 950 (g/mL) ML Lab File ID: 02029213.44

Level: (low/med) LOW Date Received: 01/09/92

% Moisture: not dec. _____ dec. Date Extracted: 01/13/92

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 02/03/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
319-84-6	Alpha-BHC	0.052	U
319-85-7	Beta-BHC	0.052	U
319-86-8	Delta-BHC	0.052	U
58-89-9	gamma-BHC (Lindane)	0.052	U
76-44-8	Heptachlor	0.052	U
309-00-2	Aldrin	0.052	U
1024-57-3	Heptachlor epoxide	0.052	U
959-98-8	Endosulfan I	0.052	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.52	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.52	U
5103-74-2	gamma-Chlordane	0.52	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.52	U
11104-28-2	Aroclor-1221	0.52	U
11141-16-5	Aroclor-1232	0.52	U
53469-21-9	Aroclor-1242	0.52	U
12672-29-6	Aroclor-1248	0.52	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

PS 2-7-92

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PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

B015R3

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: SOIL Lab Sample ID: 9201L963-005

Sample wt/vol: 30.2 (g/mL) G Lab File ID: 01319213.35

Level: (low/med) LOW Date Received: 01/09/92

% Moisture: not dec. 2 dec. Date Extracted: 01/10/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 02/01/92

GPC Cleanup: (Y/N) Y pH: 8.1 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
319-84-6	Alpha-BHC	8.1	U
319-85-7	Beta-BHC	8.1	U
319-86-8	Delta-BHC	8.1	U
58-89-9	gamma-BHC (Lindane)	8.1	U
76-44-8	Heptachlor	8.1	U
309-00-2	Aldrin	8.1	U
1024-57-3	Heptachlor epoxide	8.1	U
959-98-8	Endosulfan I	8.1	U
60-57-1	Dieldrin	16	U
72-55-9	4,4'-DDE	16	U
72-20-8	Endrin	16	U
33213-65-9	Endosulfan II	16	U
72-54-8	4,4'-DDD	16	U
1031-07-8	Endosulfan sulfate	16	U
50-29-3	4,4'-DDT	16	U
72-43-5	Methoxychlor	81	U
53494-70-5	Endrin ketone	16	U
5103-71-9	alpha-Chlordane	81	U
5103-74-2	gamma-Chlordane	81	U
8001-35-2	Toxaphene	160	U
12674-11-2	Aroclor-1016	81	U
11104-28-2	Aroclor-1221	81	U
11141-16-5	Aroclor-1232	81	U
53469-21-9	Aroclor-1242	81	U
12672-29-6	Aroclor-1248	81	U
11097-69-1	Aroclor-1254	160	U
11096-82-5	Aroclor-1260	160	U

DS 2-7-92

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PESTICIDE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

B015I3

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 9201L963-006

Sample wt/vol: 950 (g/mL) ML Lab File ID: 02029213.45

Level: (low/med) LOW Date Received: 01/09/92

% Moisture: not dec. _____ dec. Date Extracted: 01/13/92

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 02/03/92

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		
319-84-6	Alpha-BHC	0.052	U
319-85-7	Beta-BHC	0.052	U
319-86-8	Delta-BHC	0.052	U
58-89-9	gamma-BHC (Lindane)	0.052	U
76-44-8	Heptachlor	0.052	U
309-00-2	Aldrin	0.052	U
1024-57-3	Heptachlor epoxide	0.052	U
959-98-8	Endosulfan I	0.052	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.52	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.52	U
5103-74-2	gamma-Chlordane	0.52	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.52	U
11104-28-2	Aroclor-1221	0.52	U
11141-16-5	Aroclor-1232	0.52	U
53469-21-9	Aroclor-1242	0.52	U
12672-29-6	Aroclor-1248	0.52	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

DG 2-7-92

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ROY F. WESTON, INC.
Lionville Laboratory

CLIENT: WESTINGHOUSE HANFORD
RFW #: 9201L963
W.O. #: 6168-02-01

SAMPLES RECEIVED: 01-09-92

INORGANIC NARRATIVE

The following is a summary of the quality control results and a description of any problems encountered during the analysis of this batch of samples:

1. All sample holding times as required by 40CFR136 were met.

2. All preparation blank results were below the required detection limit.

3. All laboratory control standards (blank spikes) were within the control limits of 80-120%. All %RPD were within the 20% guidance limit.

4. All calibration verification checks were within the required control limits of 90-110%. Calibration verification is performed using independent standards.

5. Matrix spike recoveries are summarized on the Inorganic Accuracy Report contained within this document. All recoveries were within the 75-125% guidance limits with the exception of total organic carbon. All %RPD were within the 20% guidance limit.

6. Replicate results are summarized on the Inorganic Precision Report contained within this document. All results were within the 20% RPD guidance limit with the exception of total organic carbon and nitrate nitrite.

7. The analytical methods applied by the laboratory, unless otherwise requested, for all inorganic analyses are derived from the USEPA Method for Chemical Analysis of Water and Wastes (USEPA 600/4-79-020) and Standard Methods for the Examination of Water and Wastewater 16 ed. Methods for the analysis of solid samples are derived from Test Methods for Evaluating Solid Waste (USEPA SW846).

2.5.92
Date

Jack R. Tuschall, Ph.D.
Laboratory Manager
Lionville Analytical Laboratory

MAR 1992
RECEIVED

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 02/03/92

CLIENT: WESTINGHOUSE HANFORD
WORK ORDER: 6168-02-01-0000

WESTON BATCH #: 9201L963

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-001	B015Q7	% Solids	96.9		%	0.10
		Nitrate by IC	39.7		MG/KG	1.3
		Cyanide, Total	1.0	u	MG/KG	1.0
		Phosphate by IC	2.8		MG/KG	1.3
		Sulfate by IC	7.6		MG/KG	1.3
		Nitrate Nitrite	11.5		MG-N/KG	2.6
		Total Organic Carbon	0.54		%	0.10
-002	B015Q9	% Solids	96.0		%	0.10
		Nitrate by IC	60.3		MG/KG	1.3
		Cyanide, Total	1.0	u	MG/KG	1.0
		Phosphate by IC	3.0		MG/KG	1.3
		Sulfate by IC	164		MG/KG	13.0
		Nitrate Nitrite	18.5		MG-N/KG	5.2
		Total Organic Carbon	0.53		%	0.10
-003	B015J1	Nitrate by IC	0.25	u	MG/L	0.25
		Cyanide, Total	20.0	u	UG/L	20.0
		Phosphate by IC	0.25	u	MG/L	0.25
		Sulfate by IC	0.25	u	MG/L	0.25
		Nitrate Nitrite	0.22		MG-N/L	0.10
-005	B015R3	% Solids	97.6		%	0.10
		Nitrate by IC	4.7		MG/KG	1.3
		Cyanide, Total	1.0	u	MG/KG	1.0
		Phosphate by IC	1.3	u	MG/KG	1.3
		Sulfate by IC	53.3		MG/KG	1.3
		Nitrate Nitrite	1.9		MG-N/KG	0.51
		Total Organic Carbon	349		MG/KG	225
-006	B015I3	Nitrate by IC	0.25	u	MG/L	0.25
		Cyanide, Total	10.0	u	UG/L	10.0
		Phosphate by IC	0.25	u	MG/L	0.25
		Sulfate by IC	0.25	u	MG/L	0.25
		Nitrate Nitrite	0.13		MG-N/L	0.10

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Roy F. Weston, INC.
Lionville Laboratory

CLIENT: WESTINGHOUSE HANFORD **SAMPLES RECEIVED:** 01/09/92
RFW #: 9201L963
W.O. #: 6168-02-01

METALS NARRATIVE

The set of samples consisted of two (2) water samples and three (3) soil sample collected on 01/07/92.

The samples were analyzed according to criteria set forth in CLP SOW 3/90.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analysis:

1. ICVs, CCVs, and LCSs stock standards were purchased from Inorganic Ventures Laboratory.

2. All ICV and CCV values were within control limits.

3. All ICB and CCB values were within control limits.

4. All preparation blank values were within control limits.

5. All LCS results were within the 80-120% control limits.

6. All matrix spike recoveries were within the 75-125% control limits with the exception of As. All corresponding samples were flagged with an "N" according to CLP protocol.

7. All duplicate analyses were within the 20% RPD control limit with the exception of Ca. All corresponding samples were flagged with an "*" according to CLP protocol.

8. Se sample results were calculated by the method of standard addition (MSA). All corresponding samples were flagged with an "S" according to CLP protocol.

9. For MSA, results reported on Form 8 are calculated from absorbance values. Results reported on other forms are based on concentration. As indicated in the SOW1LJM01.0, page B-32, differences due to rounding may be found between the MSA values on Form 8 and the results reported on the other forms.

WESTON

10. The code CV is currently in use by the laboratory for both mercury instruments in operation (HG1 and HG2). HG1 is complete with autosampler and software, but still requires manual digestion; HG2 is operated by the analyst, produces a strip chart and also requires manual digestion.

11. HG1 requires less total volume of digestate due to the autosampler analysis. Sample volumes and reagents for mercury determinations in water and soil have been proportionally scaled down to adapt to this semi-automated technique. The sample volume used for water analysis is 33 ml. For soils, 0.1 gram of sample is taken to a final volume of 50 ml (including all reagents).

12. Quarterly Detection Limits for IC3 are included in this package.

Jack R. Tuschall, Ph.D.
Laboratory Manager
Lionville Analytical Laboratories

03.02.92.
Date

mlj\ clp-met.nar

ROY F. WESTON INC.

INORGANIC DATA SUMMARY REPORT 03/02/92

CLIENT: WESTINGHOUSE HANFORD
WORK ORDER: 6168-02-01-0000

WESTON BATCH #: 9201L963

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-001	B015Q7	Silver, Total	2.1	u	MG/KG	2.1
		Aluminum, Total	4080		MG/KG	41.3
		Arsenic, Total	2.7		MG/KG	2.1
		Barium, Total	62.7		MG/KG	41.3
		Beryllium, Total	1.0	u	MG/KG	1.0
		Bismuth, Total	31.0	u	MG/KG	31.0
		Calcium, Total	6140		MG/KG	1030
		Cadmium, Total	1.5		MG/KG	1.0
		Cobalt, Total	10.3	u	MG/KG	10.3
		Chromium, Total	5.7		MG/KG	2.1
		Copper, Total	8.1		MG/KG	5.2
		Iron, Total	10800		MG/KG	20.6
		Mercury, Total	0.10	u	MG/KG	0.10
		Potassium, Total	1030	u	MG/KG	1030
		Magnesium, Total	2980		MG/KG	1030
		Manganese, Total	251		MG/KG	3.1
		Sodium, Total	1030	u	MG/KG	1030
		Nickel, Total	10.3		MG/KG	8.3
		Lead, Total	5.7		MG/KG	0.62
		Antimony, Total	12.4	u	MG/KG	12.4
		Selenium, Total	1.0	u	MG/KG	1.0
		Thallium, Total	2.1	u	MG/KG	2.1
		Vanadium, Total	19.6		MG/KG	10.3
		Zinc, Total	25.5		MG/KG	4.1

ROY F. WESTON INC.

INORGANIC DATA SUMMARY REPORT 03/02/92

CLIENT: WESTINGHOUSE HANFORD
WORK ORDER: 6168-02-01-0000

WESTON BATCH #: 9201L963

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-002	B015Q9	Silver, Total	2.1	u	MG/KG	2.1
		Aluminum, Total	4070		MG/KG	41.4
		Arsenic, Total	2.1	u	MG/KG	2.1
		Barium, Total	60.3		MG/KG	41.4
		Beryllium, Total	1.0	u	MG/KG	1.0
		Bismuth, Total	31.0	u	MG/KG	31.0
		Calcium, Total	5070		MG/KG	1030
		Cadmium, Total	1.1		MG/KG	1.0
		Cobalt, Total	10.3	u	MG/KG	10.3
		Chromium, Total	6.0		MG/KG	2.1
		Copper, Total	7.0		MG/KG	5.2
		Iron, Total	13200		MG/KG	20.7
		Mercury, Total	0.10	u	MG/KG	0.10
		Potassium, Total	1030	u	MG/KG	1030
		Magnesium, Total	3040		MG/KG	1030
		Manganese, Total	261		MG/KG	3.1
		Sodium, Total	1030	u	MG/KG	1030
		Nickel, Total	9.0		MG/KG	8.3
		Lead, Total	4.5		MG/KG	0.62
		Antimony, Total	12.4	u	MG/KG	12.4
		Selenium, Total	1.0	u	MG/KG	1.0
		Thallium, Total	2.1	u	MG/KG	2.1
		Vanadium, Total	29.1		MG/KG	10.3
		Zinc, Total	27.2		MG/KG	4.1

ROY F. WESTON INC.

INORGANIC DATA SUMMARY REPORT 03/02/92

CLIENT: WESTINGHOUSE HANFORD
WORK ORDER: 6168-02-01-0000

WESTON BATCH #: 9201L963

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-003	B015J1	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Bismuth, Total	150	u	UG/L	150
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	100	u	UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	5000	u	UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	10.0	u	UG/L	10.0
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

ROY F. WESTON INC.

INORGANIC DATA SUMMARY REPORT 03/02/92

CLIENT: WESTINGHOUSE HANFORD
WORK ORDER: 6168-02-01-0000

WESTON BATCH #: 9201L963

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-005	B015R3	Silver, Total	2.0	u	MG/KG	2.0
		Aluminum, Total	4820		MG/KG	41.0
		Arsenic, Total	2.5		MG/KG	2.0
		Barium, Total	51.9		MG/KG	41.0
		Beryllium, Total	1.0	u	MG/KG	1.0
		Bismuth, Total	30.7	u	MG/KG	30.7
		Calcium, Total	6820		MG/KG	1020
		Cadmium, Total	1.3		MG/KG	1.0
		Cobalt, Total	10.2	u	MG/KG	10.2
		Chromium, Total	8.6		MG/KG	2.0
		Copper, Total	11.1		MG/KG	5.1
		Iron, Total	11100		MG/KG	20.5
		Mercury, Total	0.10	u	MG/KG	0.10
		Potassium, Total	1040		MG/KG	1020
		Magnesium, Total	4000		MG/KG	1020
		Manganese, Total	228		MG/KG	3.1
		Sodium, Total	1020	u	MG/KG	1020
		Nickel, Total	13.4		MG/KG	8.2
		Lead, Total	4.2		MG/KG	0.61
		Antimony, Total	12.3	u	MG/KG	12.3
		Selenium, Total	1.0	u	MG/KG	1.0
		Thallium, Total	2.0	u	MG/KG	2.0
		Vanadium, Total	20.6		MG/KG	10.2
		Zinc, Total	27.1		MG/KG	4.1

ROY F. WESTON INC.

INORGANIC DATA SUMMARY REPORT 03/02/92

CLIENT: WESTINGHOUSE HANFORD
WORK ORDER: 6168-02-01-0000

WESTON BATCH #: 9201L963

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT
-006	B015I3	Silver, Total	10.0	u	UG/L	10.0
		Aluminum, Total	200	u	UG/L	200
		Arsenic, Total	10.0	u	UG/L	10.0
		Barium, Total	200	u	UG/L	200
		Beryllium, Total	5.0	u	UG/L	5.0
		Bismuth, Total	150	u	UG/L	150
		Calcium, Total	5000	u	UG/L	5000
		Cadmium, Total	5.0	u	UG/L	5.0
		Cobalt, Total	50.0	u	UG/L	50.0
		Chromium, Total	10.0	u	UG/L	10.0
		Copper, Total	25.0	u	UG/L	25.0
		Iron, Total	100	u	UG/L	100
		Mercury, Total	0.20	u	UG/L	0.20
		Potassium, Total	5000	u	UG/L	5000
		Magnesium, Total	5000	u	UG/L	5000
		Manganese, Total	15.0	u	UG/L	15.0
		Sodium, Total	5000	u	UG/L	5000
		Nickel, Total	40.0	u	UG/L	40.0
		Lead, Total	3.0	u	UG/L	3.0
		Antimony, Total	60.0	u	UG/L	60.0
		Selenium, Total	5.0	u	UG/L	5.0
		Thallium, Total	100	u	UG/L	100
		Vanadium, Total	50.0	u	UG/L	50.0
		Zinc, Total	20.0	u	UG/L	20.0

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B015Q7

Lab Name: ROY F. WESTON, INC - L372 Contract: 6168-02-01

Lab Code: WESTON Case No.: WEST SAS No.: SDG No.: CLP963

Matrix (soil/water): SOIL Lab Sample ID: 920196301

Level (low/med): LOW Date Received: 1/09/92

% Solids: 96.9

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4080.00		E	P
7440-36-0	Antimony	4.75	U		P
7440-38-2	Arsenic	2.70		N	F
7440-39-3	Barium	62.70			P
7440-41-7	Beryllium	.21	B		P
7440-43-9	Cadmium	1.50			P
7440-70-2	Calcium	6140.00		*E	P
7440-47-3	Chromium	5.70			P
7440-48-4	Cobalt	6.50	B		P
7440-50-8	Copper	8.10			P
7439-89-6	Iron	10800.00			P
7439-92-1	Lead	5.70			F
7439-95-4	Magnesium	2980.00		E	P
7439-96-5	Manganese	251.00		E	P
7439-97-6	Mercury	.05	U		CV
7440-02-0	Nickel	10.30			P
7440-09-7	Potassium	936.00	B		P
7782-49-2	Selenium	.41	U	WS	F
7440-22-4	Silver	.83	U		P
7440-23-5	Sodium	132.00	U		P
7440-28-0	Thallium	.60	B		F
7440-62-2	Vanadium	19.60			P
7440-66-6	Zinc	25.50			P
	Cyanide	1.03	U		C

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B015Q9

Lab Name: ROY F. WESTON, INC - L372 Contract: 6168-02-01

Lab Code: WESTON Case No.: WEST SAS No.: SDG No.: CLP963

Matrix (soil/water): SOIL Lab Sample ID: 920196302

Level (low/med): LOW Date Received: 1/09/92

% Solids: 96.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4070.00		E	P
7440-36-0	Antimony	5.70	B		P
7440-38-2	Arsenic	1.90	B	N	F
7440-39-3	Barium	60.30			P
7440-41-7	Beryllium	.21	B		P
7440-43-9	Cadmium	1.10			P
7440-70-2	Calcium	5070.00		*E	P
7440-47-3	Chromium	6.00			P
7440-48-4	Cobalt	7.10	B		P
7440-50-8	Copper	7.00			P
7439-89-6	Iron	13200.00			P
7439-92-1	Lead	4.50			F
7439-95-4	Magnesium	3040.00		E	P
7439-96-5	Manganese	261.00		E	P
7439-97-6	Mercury	.06	B		CV
7440-02-0	Nickel	9.00			P
7440-09-7	Potassium	906.00	B		P
7782-49-2	Selenium	.41	U	W	F
7440-22-4	Silver	.83	U		P
7440-23-5	Sodium	211.00	B		P
7440-28-0	Thallium	.41	U	W	F
7440-62-2	Vanadium	29.10			P
7440-66-6	Zinc	27.20			P
	Cyanide	1.04	U		C

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B015J1

Lab Name: ROY F. WESTON, INC - L372 Contract: 6168-02-01

Lab Code: WESTON Case No.: WEST SAS No.: SDG No.: CLP963

Matrix (soil/water): WATER Lab Sample ID: 920196303

Level (low/med): LOW Date Received: 1/09/92

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	83.00	U		P
7440-36-0	Antimony	23.00	U		P
7440-38-2	Arsenic	2.00	U		F
7440-39-3	Barium	38.00	U		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium	88.00	U		P
7440-47-3	Chromium	6.00	U		P
7440-48-4	Cobalt	5.00	U		P
7440-50-8	Copper	6.00	U		P
7439-89-6	Iron	39.00	U		P
7439-92-1	Lead	2.00	U		F
7439-95-4	Magnesium	78.00	U		P
7439-96-5	Manganese	2.00	U		P
7439-97-6	Mercury	.10	U		CV
7440-02-0	Nickel	18.00	U		P
7440-09-7	Potassium	734.00	U		P
7782-49-2	Selenium	2.00	U		F
7440-22-4	Silver	4.00	U		P
7440-23-5	Sodium	638.00	U		P
7440-28-0	Thallium	2.00	U		F
7440-62-2	Vanadium	5.00	U		P
7440-66-6	Zinc	8.30	B		P
	Cyanide	10.00	U		C

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B015R3

Lab Name: ROY F. WESTON, INC - L372 Contract: 6168-02-01

Lab Code: WESTON Case No.: WEST SAS No.: SDG No.: CLP963

Matrix (soil/water): SOIL Lab Sample ID: 920196305

Level (low/med): LOW Date Received: 1/09/92

% Solids: 97.6

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4820.00		E	P
7440-36-0	Antimony	5.80	B		P
7440-38-2	Arsenic	2.50		N	F
7440-39-3	Barium	51.90			P
7440-41-7	Beryllium	.25	B		P
7440-43-9	Cadmium	1.30			P
7440-70-2	Calcium	6820.00		*E	P
7440-47-3	Chromium	8.60			P
7440-48-4	Cobalt	5.90	B		P
7440-50-8	Copper	11.10			P
7439-89-6	Iron	11100.00			P
7439-92-1	Lead	4.20			F
7439-95-4	Magnesium	4000.00		E	P
7439-96-5	Manganese	228.00		E	P
7439-97-6	Mercury	.05	U		CV
7440-02-0	Nickel	13.40			P
7440-09-7	Potassium	1040.00			P
7782-49-2	Selenium	.41	U	W	F
7440-22-4	Silver	.82	U		P
7440-23-5	Sodium	131.00	U		P
7440-28-0	Thallium	.41	U	W	F
7440-62-2	Vanadium	20.60			P
7440-66-6	Zinc	27.10			P
	Cyanide	1.02	U		C

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B015I3

Lab Name: ROY F. WESTON, INC - L372 Contract: 6168-02-01

Lab Code: WESTON Case No.: WEST SAS No.: SDG No.: CLP963

Matrix (soil/water): WATER Lab Sample ID: 920196306

Level (low/med): LOW Date Received: 1/09/92

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	83.00	U		P
7440-36-0	Antimony	23.00	U		P
7440-38-2	Arsenic	2.00	U		F
7440-39-3	Barium	38.00	U		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	4.00	B		P
7440-70-2	Calcium	88.00	U		P
7440-47-3	Chromium	6.00	U		P
7440-48-4	Cobalt	5.00	U		P
7440-50-8	Copper	6.00	U		P
7439-89-6	Iron	85.70	B		P
7439-92-1	Lead	2.00	U		F
7439-95-4	Magnesium	78.00	U		P
7439-96-5	Manganese	5.00	B		P
7439-97-6	Mercury	.10	U		CV
7440-02-0	Nickel	18.00	U		P
7440-09-7	Potassium	734.00	U		P
7782-49-2	Selenium	2.00	U	W	F
7440-22-4	Silver	4.00	U		P
7440-23-5	Sodium	638.00	U		P
7440-28-0	Thallium	20.00	U	E	F
7440-62-2	Vanadium	5.00	U		P
7440-66-6	Zinc	4.20	B		P
	Cyanide	10.00	U		C

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments: