9103L815

# Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 1

Client: Westinghouse Hanford
Est. Final Proj. Sampling Date:
Work Order #: 6116-02-01-0000
Project Contact/Phone #:
AD Project Manager: Greg Beasley/Jenkins
QC: CLP Del: CLP TAT: 35 Day
Date Rec'd: 3/6/91 Date Due: 4/10/91
Account #: WS-HANFORD

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Refrigerator # | | | | | | | | | | | | | | | | | |
| #/Type Container | Liquid | 3/G | 2/G | → | | 1/P | 1/P | 1/G | 1/G | 1/P | 1/P | 1/P | 1/P | 1/P | | | |
| | Solid | | | | | | | | | | | | | | | | |
| Volume | Liquid | 40ml | 30 | → | | 4HR | 4HR | 250 | 25 | 4HR | 4HR | 4HR | 4HR | 4HR | | | |
| | Solid | | | | | | | | | | | | | | | | |
| Preservatives | | none | | | | HNO3 | HCL | none | NaOH | HNO3 | NaOH | HNO3 | none | NaOH | | | |

| ANALYSES REQUESTED → | ORGANIC | | | | | | | | INORG | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VOA | BNA | Pest/PCB | Herb | RAD Alpha Beta | Tot Uranium | Tritium | TOC | Metal | CN | Ammonia | Inorg ① | Inorg ② | | |
| | 0634H | 0634H | 0628/H | | ISUB | ISUB | ISUB | ICT | see Below | ICNTO | see Below | see Below | see Below | | |

MATRIX CODES:
- Soil
E - Sediment
D - Solid
L - Sludge
W - Water
- Oil
- Air
S - Drum Solids
L - Drum Liquids
- EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) | Matrix | Date Collected | VOA | BNA | Pest/PCB | Herb | RAD Alpha Beta | Tot Uranium | Tritium | TOC | Metal | CN | Ammonia | Inorg ① | Inorg ② |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W1 | B00F44 | | W | 3/4/91 | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2 | B00F45 | | | | | | | | | | | | ✓ | | | | |
| 3 | B00F47 | | | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4 | B00F48 | | | | | | | | | | | | ✓ | | | | |
| 5 | B00F97 | | | | ✓ | | | | | | | | | | | | |

*RAD = Gross Alpha, Beta, Radium, SR-90, TC-90, CS-137, CO-60, PO-238, PU239/240
**Metals = HSL + BI SR, SN
***Ammonia = ICCL, ICFL, ICP04, ICP04, ICN03, ICN02

Special Instructions:
**** Inorg① = pH, spc'd, Alk, TDS, SO4
***** Inorg② = HACD, NH3N, P3N2

DATE/REVISIONS:
1.
2.
3.
4.
5.
6.

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) Properly Preserved Y or N
5) Received Within Holding Times Y or N

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'd Y or N

| Relinquished by | Received by | Date | Time | Relinquished by | Received by | Date | Time |
|---|---|---|---|---|---|---|---|
| Emery | [illegible] | 3/6/91 | 9:50 AM | | | | |

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES: ICN03, ICN02, ICP04, ICP03

IFW 21-21 001/A-8/90 L372 L373 L375 L377 L378 Ref# N Cooler# N/A G77-596a

0046094

START

9713512.1374

VOLATILE ORGANICS ANALYSIS SHEET

0000014

CLIENT SAMPLE NO.

B00F44

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9103L815-001

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

Lab File ID: AK3D07

Level: (low/med) LOW

Date Received: 03/06/91

% Moisture: not dec. _____

Date Analyzed: 03/13/91

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 | 2 | JB |
| 67-64-1 | Acetone | 3 | JB |
| 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 |

9713512.1375
1E

CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS 0000015

B00F44

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9103L815-001

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

Lab File ID: AK3D07

Level: (low/med) LOW

Date Received: 03/06/91

% Moisture: not dec. _____

Date Analyzed: 03/13/91

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. | | | | |

9713512.1376

1A

VOLATILE ORGANICS ANALYSIS SHEET

000002 1

CLIENT SAMPLE NO.

B00F47

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9103L815-003

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

Lab File ID: AK3D08

Level: (low/med) LOW

Date Received: 03/06/91

% Moisture: not dec. _____

Date Analyzed: 03/13/91

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 | 1 | J |
| 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 |

9713512.1377

1E

CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS 0000022

B00F47

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9103L815-003

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

Lab File ID: AK3D08

Level: (low/med) LOW

Date Received: 03/06/91

% Moisture: not dec. _____

Date Analyzed: 03/13/91

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. | | | | |

9713512.1378

1A

VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

0000070

VBLK

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 91LVK047-MB1

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

Lab File ID: AK3D03

Level: (low/med) LOW

Date Received: 03/13/91

% Moisture: not dec. _____

Date Analyzed: 03/13/91

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 | 17 | |
| 67-64-1 | Acetone | 13 | |
| 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 |

9713512.1379

1E

CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS 000007

VBLK

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 91LVK047-MB1

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

Lab File ID: AK3D03

Level: (low/med) LOW

Date Received: 03/13/91

% Moisture: not dec. _____

Date Analyzed: 03/13/91

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. | | | | |

9713512.1380

1B

SEMIVOLATILE ORGANICS ANALYSIS SHEET 000021

CLIENT SAMPLE NO.

B00F44

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9103L815-001

Sample wt/vol: 990 (g/mL) ML

Lab File ID: L032810

Level: (low/med) LOW

Date Received: 03/06/91

% Moisture: not dec. _____ dec.

Date Extracted: 03/10/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 03/28/91

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 | 10 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 100-51-6 | Benzyl alcohol | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 65-85-0 | Benzoic acid | 50 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 50 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |

9713512.1381

1C

SEMIVOLATILE ORGANICS ANALYSIS SHEET 0000022

CLIENT SAMPLE NO.

B00F44

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9103L815-001

Sample wt/vol: 990 (g/mL) ML

Lab File ID: L032810

Level: (low/med) LOW

Date Received: 03/06/91

% Moisture: not dec. _____ dec.

Date Extracted: 03/10/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 03/28/91

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 | 50 | U |
| 83-32-9 | Acenaphthene | 10 | U |
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | 50 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 50 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 20 | U |
| 56-55-3 | Benzo(a)anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 2 | JB |
| 117-84-0 | Di-n-Octyl phthalate | 10 | U |
| 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

9115512.1582

IF

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0000023

CLIENT SAMPLE NO.

B00F44

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9103L815-001

Sample wt/vol: 990 (g/mL) ML

Lab File ID: L032810

Level: (low/med) LOW

Date Received: 03/06/91

% Moisture: not dec. _____ dec.

Date Extracted: 03/10/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 03/28/91

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

Dilution Factor: 1.00

Number TICs found: 10

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | TRICHLOROPROPENE | 6.43 | 8 | J |
| 2. | UNKNOWN | 6.53 | 20 | JB |
| 3. | UNKNOWN | 9.93 | 10 | J |
| 4. | HYDROCARBON | 20.72 | 500 | JB |
| 5. | UNKNOWN | 20.85 | 30 | JB |
| 6. | UNKNOWN | 21.02 | 20 | JB |
| 7. | HYDROCARBON | 21.12 | 8 | JB |
| 8. | UNKNOWN | 21.28 | 10 | JB |
| 9. | UNKNOWN | 22.08 | 7 | JB |
| 10. | UNKNOWN | 22.62 | 7 | JB |

9213512.1383

1B

SEMIVOLATILE ORGANICS ANALYSIS SHEET

0000043

CLIENT SAMPLE NO.

B00F44RE

Lab Name: Roy F. Weston, Inc. Work Order: 5168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9103L815-001 RE

Sample wt/vol: 990 (g/mL) ML

Lab File ID: L040503

Level: (low/med) LOW

Date Received: 03/06/91

% Moisture: not dec. _____ dec.

Date Extracted: 03/10/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 04/05/91

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 | 10 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 100-51-6 | Benzyl alcohol | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 65-85-0 | Benzoic acid | 50 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 50 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |

9713512.1384

1C

SEMIVOLATILE ORGANICS ANALYSIS SHEET 0000044

CLIENT SAMPLE NO.

B00F44RE

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9103L815-001 RE

Sample wt/vol: 990 (g/mL) ML

Lab File ID: L040503

Level: (low/med) LOW

Date Received: 03/06/91

% Moisture: not dec. _____ dec.

Date Extracted: 03/10/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 04/05/91

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 | 50 | U |
| 83-32-9 | Acenaphthene | 10 | U |
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | 50 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 50 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 20 | U |
| 56-55-3 | Benzo(a)anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 10 | U |
| 117-84-0 | Di-n-Octyl phthalate | 10 | U |
| 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

9713512.1385

1B

SEMIVOLATILE ORGANICS ANALYSIS SHEET

0000051

CLIENT SAMPLE NO.

B00F47

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9103L815-003

Sample wt/vol: 990 (g/mL) ML

Lab File ID: L032811

Level: (low/med) LOW

Date Received: 03/06/91

% Moisture: not dec. _____ dec.

Date Extracted: 03/10/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 03/28/91

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 | 10 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 100-51-6 | Benzyl alcohol | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 65-85-0 | Benzoic acid | 50 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 50 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |

9713512.1386

1C

SEMIVOLATILE ORGANICS ANALYSIS SHEET

0000052

CLIENT SAMPLE NO.

B00F47

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9103L815-003

Sample wt/vol: 990 (g/mL) ML

Lab File ID: L032811

Level: (low/med) LOW

Date Received: 03/06/91

% Moisture: not dec. _____ dec.

Date Extracted: 03/10/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 03/28/91

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 | 50 | U |
| 83-32-9 | Acenaphthene | 10 | U |
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | 50 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 50 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 20 | U |
| 56-55-3 | Benzo(a)anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 3 | JB |
| 117-84-0 | Di-n-Octyl phthalate | 10 | U |
| 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

9713512.1387

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS 0000053

CLIENT SAMPLE NO.

B00F47

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9103L815-003

Sample wt/vol: 990 (g/mL) ML

Lab File ID: L032811

Level: (low/med) LOW

Date Received: 03/06/91

% Moisture: not dec. _____ dec.

Date Extracted: 03/10/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 03/28/91

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

Dilution Factor: 1.00

Number TICs found: 11

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 6.53 | 20 | JB |
| 2. | UNKNOWN | 19.28 | 7 | JB |
| 3. | HYDROCARBON | 20.72 | 1000 | JB |
| 4. | UNKNOWN | 20.83 | 70 | JB |
| 5. | UNKNOWN | 21.00 | 50 | JB |
| 6. | HYDROCARBON | 21.12 | 20 | JB |
| 7. | UNKNOWN | 21.27 | 30 | JB |
| 8. | UNKNOWN | 21.40 | 10 | J |
| 9. | HYDROCARBON | 21.50 | 5 | J |
| 10. | HYDROCARBON | 22.07 | 20 | JB |
| 11. | UNKNOWN | 22.58 | 20 | JB |

9713512.1388

1B

SEMIVOLATILE ORGANICS ANALYSIS SHEET 000074

CLIENT SAMPLE NO.

B00F47RE

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9103L815-003 RE

Sample wt/vol: 990 (g/mL) ML

Lab File ID: L040504

Level: (low/med) LOW

Date Received: 03/06/91

% Moisture: not dec. _____ dec.

Date Extracted: 03/10/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 04/05/91

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 | 10 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 100-51-6 | Benzyl alcohol | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 65-85-0 | Benzoic acid | 50 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 50 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |

9713512.1389

1C

SEMIVOLATILE ORGANICS ANALYSIS SHEET 0000075

CLIENT SAMPLE NO.

B00F47RE

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9103L815-003 RE

Sample wt/vol: 990 (g/mL) ML

Lab File ID: L040504

Level: (low/med) LOW

Date Received: 03/06/91

% Moisture: not dec. _____ dec.

Date Extracted: 03/10/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 04/05/91

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 | 50 | U |
| 83-32-9 | Acenaphthene | 10 | U |
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | 50 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 50 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 20 | U |
| 56-55-3 | Benzo(a)anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 4 | JB |
| 117-84-0 | Di-n-Octyl phthalate | 10 | U |
| 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

9713512.1390

1B

SEMIVOLATILE ORGANICS ANALYSIS SHEET

0000294

CLIENT SAMPLE NO.

SBLK

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 91LE0326-MB1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: J032218

Level: (low/med) LOW Date Received: 03/10/91

% Moisture: not dec. _____ dec. Date Extracted: 03/10/91

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 03/22/91

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 | 10 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 100-51-6 | Benzyl alcohol | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 65-85-0 | Benzoic acid | 50 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 50 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |

9715512.1391

1C

SEMIVOLATILE ORGANICS ANALYSIS SHEET

0000295

CLIENT SAMPLE NO.

SBLK

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 91LE0326-MB1

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: J032218

Level: (low/med) LOW

Date Received: 03/10/91

% Moisture: not dec. _____ dec.

Date Extracted: 03/10/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 03/22/91

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 | 50 | U |
| 83-32-9 | Acenaphthene | 10 | U |
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | 50 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 50 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 2 | J |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 20 | U |
| 56-55-3 | Benzo(a)anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 6 | J |
| 117-84-0 | Di-n-Octyl phthalate | 10 | U |
| 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

9713512.1592

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

000296

CLIENT SAMPLE NO.

SBLK

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 91LE0326-MB1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: J032218

Level: (low/med) LOW Date Received: 03/10/91

% Moisture: not dec. _____ dec. Date Extracted: 03/10/91

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 03/22/91

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

Number TICs found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 6.51 | 40 | J |
| 2. | TRIETHYLENEGLYCOL | 10.83 | 6 | J |
| 3. | AROMATIC | 14.90 | 4 | J |
| 4. | UNKNOWN | 18.46 | 20 | J |
| 5. | HYDROCARBON | 18.94 | 30 | J |
| 6. | HYDROCARBON | 19.08 | 40 | J |
| 7. | HYDROCARBON | 19.70 | 7 | J |
| 8. | HYDROCARBON | 19.76 | 10 | J |
| 9. | HYDROCARBON | 20.52 | 1000 | J |
| 10. | HYDROCARBON | 20.62 | 60 | J |
| 11. | UNKNOWN | 20.79 | 80 | J |
| 12. | HYDROCARBON | 20.88 | 40 | J |
| 13. | UNKNOWN | 21.03 | 40 | J |
| 14. | HYDROCARBON | 21.73 | 40 | J |
| 15. | UNKNOWN | 22.19 | 30 | J |
| 16. | UNKNOWN | 22.31 | 10 | J |
| 17. | UNKNOWN | 24.01 | 20 | J |
| 18. | UNKNOWN | 24.24 | 10 | J |
| 19. | UNKNOWN | 26.74 | 20 | J |
| 20. | UNKNOWN | 30.74 | 10 | J |

9713512.1395

1B

SEMIVOLATILE ORGANICS ANALYSIS SHEET 0000329

CLIENT SAMPLE NO.

SBLKMS

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 91LE0326-MB1 BS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: V032603

Level: (low/med) LOW Date Received: 03/10/91

% Moisture: not dec. _____ dec. Date Extracted: 03/10/91

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 03/26/91

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 | | S |
| 111-44-4 | bis(2-Chloroethyl)ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | | S |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | S |
| 100-51-6 | Benzyl alcohol | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | | S |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 65-85-0 | Benzoic acid | 50 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | S |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | | S |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 50 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |

S: SPIKE COMPOUND

FORM 1 SV-1

12/88 Rev.

9113512.1394

1C

SEMIVOLATILE ORGANICS ANALYSIS SHEET 000330

CLIENT SAMPLE NO.

SBLKMS

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 91LE0326-MB1 D3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: V032603

Level: (low/med) LOW Date Received: 03/10/91

% Moisture: not dec. _____ dec. Date Extracted: 03/10/91

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 03/26/91

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 | 50 | U |
| 83-32-9 | Acenaphthene | | S |
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | | S |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | S |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 2 | J |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | | S |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 1 | JB |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | | S |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 20 | U |
| 56-55-3 | Benzo(a)anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 5 | JB |
| 117-84-0 | Di-n-Octyl phthalate | 10 | U |
| 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

S: SPIKE COMPOUND

9713512.1395

1B

SEMIVOLATILE ORGANICS ANALYSIS SHEET 0000337

CLIENT SAMPLE NO.

SBLKMSD

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 91LE0326-MB1 BSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: V032604

Level: (low/med) LOW Date Received: 03/10/91

% Moisture: not dec. _____ dec. Date Extracted: 03/10/91

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 03/26/91

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 | | S |
| 111-44-4 | bis(2-Chloroethyl)ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | | S |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | S |
| 100-51-6 | Benzyl alcohol | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | | S |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 65-85-0 | Benzoic acid | 50 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | S |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | | S |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 50 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |

S: SPIKE COMPOUND

9713512.1396

1C

SEMIVOLATILE ORGANICS ANALYSIS SHEET

0000338

CLIENT SAMPLE NO.

SBLKMSD

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 91LE0326-MB1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: V032604

Level: (low/med) LOW Date Received: 03/10/91

% Moisture: not dec. _____ dec. Date Extracted: 03/10/91

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 03/26/91

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 | 50 | U |
| 83-32-9 | Acenaphthene | | S |
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | | S |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | S |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 2 | J |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | | S |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 1 | JB |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | | S |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 20 | U |
| 56-55-3 | Benzo(a)anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 2 | JB |
| 117-84-0 | Di-n-Octyl phthalate | 10 | U |
| 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

S: SPIKE COMPOUND

9713512.1397

1D

PESTICIDE ORGANICS ANALYSIS SHEET 0000017

CLIENT SAMPLE NO.

B00F44

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 9103L815-001

Sample wt/vol: 990 (g/mL) ML Lab File ID: 04149103.14

Level: (low/med) LOW Date Received: 03/06/91

% Moisture: not dec. _____ dec. Date Extracted: 03/08/91

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 04/15/91

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 | 0.050 | U |
| 319-85-7 | Beta-BHC | 0.050 | U |
| 319-86-8 | Delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | 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 | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.50 | U |
| 5103-74-2 | gamma-Chlordane | 0.50 | U |
| 8001-35-2 | Toxaphene | 1.0 | U |
| 12674-11-2 | Aroclor-1016 | 0.50 | U |
| 11104-28-2 | Aroclor-1221 | 0.50 | U |
| 11141-16-5 | Aroclor-1232 | 0.50 | U |
| 53469-21-9 | Aroclor-1242 | 0.50 | U |
| 12672-29-6 | Aroclor-1248 | 0.50 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

LC 6/6/91

9713512.1398

1D

PESTICIDE ORGANICS ANALYSIS SHEET 0000022

CLIENT SAMPLE NO.

B00F47

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9103L815-003

Sample wt/vol: 990 (g/mL) ML

Lab File ID: 04149103.15

Level: (low/med) LOW

Date Received: 03/06/91

% Moisture: not dec. _____ dec.

Date Extracted: 03/08/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 04/15/91

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 | 0.050 | U |
| 319-85-7 | Beta-BHC | 0.050 | U |
| 319-86-8 | Delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | 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 | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.50 | U |
| 5103-74-2 | gamma-Chlordane | 0.50 | U |
| 8001-35-2 | Toxaphene | 1.0 | U |
| 12674-11-2 | Aroclor-1016 | 0.50 | U |
| 11104-28-2 | Aroclor-1221 | 0.50 | U |
| 11141-16-5 | Aroclor-1232 | 0.50 | U |
| 53469-21-9 | Aroclor-1242 | 0.50 | U |
| 12672-29-6 | Aroclor-1248 | 0.50 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

6/6/91

9213512.1399

1D

PESTICIDE ORGANICS ANALYSIS SHEET 0000138

CLIENT SAMPLE NO.

PBLK

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 91LE0322-MB1

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 04149103.41

Level: (low/med) LOW

Date Received: 03/08/91

% Moisture: not dec. _____ dec.

Date Extracted: 03/08/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 04/16/91

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 | 0.050 | U |
| 319-85-7 | Beta-BHC | 0.050 | U |
| 319-86-8 | Delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | 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 | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.50 | U |
| 5103-74-2 | gamma-Chlordane | 0.50 | U |
| 8001-35-2 | Toxaphene | 1.0 | U |
| 12674-11-2 | Aroclor-1016 | 0.50 | U |
| 11104-28-2 | Aroclor-1221 | 0.50 | U |
| 11141-16-5 | Aroclor-1232 | 0.50 | U |
| 53469-21-9 | Aroclor-1242 | 0.50 | U |
| 12672-29-6 | Aroclor-1248 | 0.50 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

6/6/91

9713512.1400

1D

PESTICIDE ORGANICS ANALYSIS SHEET 0000143

CLIENT SAMPLE NO.

PBLKMS

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 91LE0322-MB1 BS

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 04149103.42

Level: (low/med) LOW

Date Received: 03/08/91

% Moisture: not dec. _____ dec.

Date Extracted: 03/08/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 04/16/91

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

Dilution Factor: 2.00

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

| CAS NO. | COMPOUND | | |
|---|---|---|---|
| 319-84-6 | Alpha-BHC | 0.10 | U |
| 319-85-7 | Beta-BHC | 0.10 | U |
| 319-86-8 | Delta-BHC | 0.10 | U |
| 58-89-9 | gamma-BHC (Lindane) | | S |
| 76-44-8 | Heptachlor | | S |
| 309-00-2 | Aldrin | | S |
| 1024-57-3 | Heptachlor epoxide | 0.10 | U |
| 959-98-8 | Endosulfan I | 0.10 | U |
| 60-57-1 | Dieldrin | | S |
| 72-55-9 | 4,4'-DDE | 0.20 | U |
| 72-20-8 | Endrin | | S |
| 33213-65-9 | Endosulfan II | 0.20 | U |
| 72-54-8 | 4,4'-DDD | 0.20 | U |
| 1031-07-8 | Endosulfan sulfate | 0.20 | U |
| 50-29-3 | 4,4'-DDT | | S |
| 72-43-5 | Methoxychlor | 1.0 | U |
| 53494-70-5 | Endrin ketone | 0.20 | U |
| 5103-71-9 | alpha-Chlordane | 1.0 | U |
| 5103-74-2 | gamma-Chlordane | 1.0 | U |
| 8001-35-2 | Toxaphene | 2.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 2.0 | U |
| 11096-82-5 | Aroclor-1260 | 2.0 | U |

S: SPIKE COMPOUND

FORM 1 PEST

12/88 Rev.

9713512.1901

1D

PESTICIDE ORGANICS ANALYSIS SHEET 0000148

CLIENT SAMPLE NO.

PBLKMSD

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 91LE0322-MB1 BSD

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 04149103.43

Level: (low/med) LOW

Date Received: 03/08/91

% Moisture: not dec. _____ dec.

Date Extracted: 03/08/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 04/16/91

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

Dilution Factor: 2.00

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

| CAS NO. | COMPOUND | | |
|---|---|---|---|
| 319-84-6 | Alpha-BHC | 0.10 | U |
| 319-85-7 | Beta-BHC | 0.10 | U |
| 319-86-8 | Delta-BHC | 0.10 | U |
| 58-89-9 | gamma-BHC (Lindane) | | S |
| 76-44-8 | Heptachlor | | S |
| 309-00-2 | Aldrin | | S |
| 1024-57-3 | Heptachlor epoxide | 0.10 | U |
| 959-98-8 | Endosulfan I | 0.10 | U |
| 60-57-1 | Dieldrin | | S |
| 72-55-9 | 4,4'-DDE | 0.20 | U |
| 72-20-8 | Endrin | | S |
| 33213-65-9 | Endosulfan II | 0.20 | U |
| 72-54-8 | 4,4'-DDD | 0.20 | U |
| 1031-07-8 | Endosulfan sulfate | 0.20 | U |
| 50-29-3 | 4,4'-DDT | | S |
| 72-43-5 | Methoxychlor | 1.0 | U |
| 53494-70-5 | Endrin ketone | 0.20 | U |
| 5103-71-9 | alpha-Chlordane | 1.0 | U |
| 5103-74-2 | gamma-Chlordane | 1.0 | U |
| 8001-35-2 | Toxaphene | 2.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 2.0 | U |
| 11096-82-5 | Aroclor-1260 | 2.0 | U |

6/6/91

S: SPIKE COMPOUND

FORM 1 PEST

12/88 Rev.

9213012.1402

ID

PESTICIDE ORGANICS ANALYSIS SHEET 0000153

CLIENT SAMPLE NO.

PBLK

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-C1-0000

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 91LE0437-MB1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 04149103.55

Level: (low/med) LOW Date Received: 04/02/91

% Moisture: not dec. _____ dec. Date Extracted: 04/02/91

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 04/16/91

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 | 0.050 | U |
| 319-85-7 | Beta-BHC | 0.050 | U |
| 319-86-8 | Delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | 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 | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.50 | U |
| 5103-74-2 | gamma-Chlordane | 0.50 | U |
| 8001-35-2 | Toxaphene | 1.0 | U |
| 12674-11-2 | Aroclor-1016 | 0.50 | U |
| 11104-28-2 | Aroclor-1221 | 0.50 | U |
| 11141-16-5 | Aroclor-1232 | 0.50 | U |
| 53469-21-9 | Aroclor-1242 | 0.50 | U |
| 12672-29-6 | Aroclor-1248 | 0.50 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

KL 6/6/91

FORM 1 PEST 12/88 Rev.

9213512.1403

ID

PESTICIDE ORGANICS ANALYSIS SHEET 0000158

CLIENT SAMPLE NO.

PBLKMS

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 91LE0437-MB1 BS

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 04149103.56

Level: (low/med) LOW

Date Received: 04/02/91

% Moisture: not dec. _____ dec.

Date Extracted: 04/02/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 04/16/91

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

Dilution Factor: 2.00

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

| CAS NO. | COMPOUND | | |
|---|---|---|---|
| 319-84-6 | Alpha-BHC | 0.10 | U |
| 319-85-7 | Beta-BHC | 0.10 | U |
| 319-86-8 | Delta-BHC | 0.10 | U |
| 58-89-9 | gamma-BHC (Lindane) | | S |
| 76-44-8 | Heptachlor | | S |
| 309-00-2 | Aldrin | | S |
| 1024-57-3 | Heptachlor epoxide | 0.10 | U |
| 959-98-8 | Endosulfan I | 0.10 | U |
| 60-57-1 | Dieldrin | | S |
| 72-55-9 | 4,4'-DDE | 0.20 | U |
| 72-20-8 | Endrin | | S |
| 33213-65-9 | Endosulfan II | 0.20 | U |
| 72-54-8 | 4,4'-DDD | 0.20 | U |
| 1031-07-8 | Endosulfan sulfate | 0.20 | U |
| 50-29-3 | 4,4'-DDT | | S |
| 72-43-5 | Methoxychlor | 1.0 | U |
| 53494-70-5 | Endrin ketone | 0.20 | U |
| 5103-71-9 | alpha-Chlordane | 1.0 | U |
| 5103-74-2 | gamma-Chlordane | 1.0 | U |
| 8001-35-2 | Toxaphene | 2.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 2.0 | U |
| 11096-82-5 | Aroclor-1260 | 2.0 | U |

6/6/91

S: SPIKE COMPOUND

FORM 1 PEST

12/88 Rev.

9213512.1404

1D

PESTICIDE ORGANICS ANALYSIS SHEET 0000164

CLIENT SAMPLE NO.

B00F44MS

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9103L815-001

Sample wt/vol: 990 (g/mL) ML

Lab File ID: 04149103.50

Level: (low/med) LOW

Date Received: 03/06/91

% Moisture: not dec. _____ dec.

Date Extracted: 04/02/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 04/16/91

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 | 0.050 | U |
| 319-85-7 | Beta-BHC | 0.050 | U |
| 319-86-8 | Delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | | S |
| 76-44-8 | Heptachlor | | S |
| 309-00-2 | Aldrin | | S |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | | S |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | | S |
| 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 | | S |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.50 | U |
| 5103-74-2 | gamma-Chlordane | 0.50 | U |
| 8001-35-2 | Toxaphene | 1.0 | U |
| 12674-11-2 | Aroclor-1016 | 0.50 | U |
| 11104-28-2 | Aroclor-1221 | 0.50 | U |
| 11141-16-5 | Aroclor-1232 | 0.50 | U |
| 53469-21-9 | Aroclor-1242 | 0.50 | U |
| 12672-29-6 | Aroclor-1248 | 0.50 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

6/6/91

S: SPIKE COMPOUND

FORM 1 PEST

12/88 Rev.

9715512.1405

1D

PESTICIDE ORGANICS ANALYSIS SHEET 0000169

CLIENT SAMPLE NO.

B00F44MSD

Lab Name: Roy F. Weston, Inc. Work Order: G168-02-01-0000

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9103L815-001 MSD

Sample wt/vol: 990 (g/mL) ML

Lab File ID: 04149103.51

Level: (low/med) LOW

Date Received: 03/06/91

% Moisture: not dec. _____ dec.

Date Extracted: 04/02/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 04/16/91

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 | 0.050 | U |
| 319-85-7 | Beta-BHC | 0.050 | U |
| 319-86-8 | Delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | | S |
| 76-44-8 | Heptachlor | | S |
| 309-00-2 | Aldrin | | S |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | | S |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | | S |
| 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 | | S |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.50 | U |
| 5103-74-2 | gamma-Chlordane | 0.50 | U |
| 8001-35-2 | Toxaphene | 1.0 | U |
| 12674-11-2 | Aroclor-1016 | 0.50 | U |
| 11104-28-2 | Aroclor-1221 | 0.50 | U |
| 11141-16-5 | Aroclor-1232 | 0.50 | U |
| 53469-21-9 | Aroclor-1242 | 0.50 | U |
| 12672-29-6 | Aroclor-1248 | 0.50 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

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S: SPIKE COMPOUND

FORM 1 PEST

12/88 Rev.

9713612.1406

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PESTICIDE ORGANICS ANALYSIS SHEET 0000174

CLIENT SAMPLE NO.

B00F47MS

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 9103L815-003 MS

Sample wt/vol: 990 (g/mL) ML Lab File ID: 04149103.44

Level: (low/med) LOW Date Received: 03/06/91

% Moisture: not dec. _____ dec. Date Extracted: 03/08/91

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 04/16/91

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

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

| CAS NO. | COMPOUND | | |
|---|---|---|---|
| 319-84-6 | Alpha-BHC | 0.10 | U |
| 319-85-7 | Beta-BHC | 0.10 | U |
| 319-86-8 | Delta-BHC | 0.10 | U |
| 58-89-9 | gamma-BHC (Lindane) | | S |
| 76-44-8 | Heptachlor | | S |
| 309-00-2 | Aldrin | | S |
| 1024-57-3 | Heptachlor epoxide | 0.10 | U |
| 959-98-8 | Endosulfan I | 0.10 | U |
| 60-57-1 | Dieldrin | | S |
| 72-55-9 | 4,4'-DDE | 0.20 | U |
| 72-20-8 | Endrin | | S |
| 33213-65-9 | Endosulfan II | 0.20 | U |
| 72-54-8 | 4,4'-DDD | 0.20 | U |
| 1031-07-8 | Endosulfan sulfate | 0.20 | U |
| 50-29-3 | 4,4'-DDT | | S |
| 72-43-5 | Methoxychlor | 1.0 | U |
| 53494-70-5 | Endrin ketone | 0.20 | U |
| 5103-71-9 | alpha-Chlordane | 1.0 | U |
| 5103-74-2 | gamma-Chlordane | 1.0 | U |
| 8001-35-2 | Toxaphene | 2.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 2.0 | U |
| 11096-82-5 | Aroclor-1260 | 2.0 | U |

MC 6/6/91

S: SPIKE COMPOUND FORM 1 PEST 12/88 Rev.

9213512.1407

1D

PESTICIDE ORGANICS ANALYSIS SHEET 0000179

CLIENT SAMPLE NO.

B00F47MSD

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9103L815-003 MSD

Sample wt/vol: 990 (g/mL) ML

Lab File ID: 04149103.45

Level: (low/med) LOW

Date Received: 03/06/91

% Moisture: not dec. _____ dec.

Date Extracted: 03/08/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 04/16/91

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

Dilution Factor: 2.00

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

| CAS NO. | COMPOUND | | |
|---|---|---|---|
| 319-84-6 | Alpha-BHC | 0.10 | U |
| 319-85-7 | Beta-BHC | 0.10 | U |
| 319-86-8 | Delta-BHC | 0.10 | U |
| 58-89-9 | gamma-BHC (Lindane) | | S |
| 76-44-8 | Heptachlor | | S |
| 309-00-2 | Aldrin | | S |
| 1024-57-3 | Heptachlor epoxide | 0.10 | U |
| 959-98-8 | Endosulfan I | 0.10 | U |
| 60-57-1 | Dieldrin | | S |
| 72-55-9 | 4,4'-DDE | 0.20 | U |
| 72-20-8 | Endrin | | S |
| 33213-65-9 | Endosulfan II | 0.20 | U |
| 72-54-8 | 4,4'-DDD | 0.20 | U |
| 1031-07-8 | Endosulfan sulfate | 0.20 | U |
| 50-29-3 | 4,4'-DDT | | S |
| 72-43-5 | Methoxychlor | 1.0 | U |
| 53494-70-5 | Endrin ketone | 0.20 | U |
| 5103-71-9 | alpha-Chlordane | 1.0 | U |
| 5103-74-2 | gamma-Chlordane | 1.0 | U |
| 8001-35-2 | Toxaphene | 2.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 2.0 | U |
| 11096-82-5 | Aroclor-1260 | 2.0 | U |

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S: SPIKE COMPOUND FORM 1 PEST 12/88 Rev.

9713512.1408

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 03/29/91

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

WESTON BATCH #: 9103L815

| SAMPLE | SITE ID | ANALYTE | RESULT | UNITS | REPORTING LIMIT |
|---|---|---|---|---|---|
| -001 | B00F44 | Alkalinity | 100 | MG/L | 2.0 |
| | | Chloride by IC | 16.1 | mg/L | 2.5 |
| | | Fluoride by IC | 0.86 | mg/L | 0.50 |
| | | Nitrite by IC | 0.25 u | mg/L | 0.25 |
| | | Nitrate by IC | 6.7 | 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 | 28.7 | mg/L | 2.5 |
| | | Hardness | 102 | MG/L | 2.0 |
| | | Nitrate Nitrite | 1.6 | MG/L | 0.10 |
| | | Ammonia, as N | 0.10 u | MG/L | 0.10 |
| | | Total Organic Carbon | 0.62 | MG/L | 0.50 |
| | | pH | 8.2 | PH UNITS | 0.10 |
| | | Sulfate | 29.9 | MG/L | 5.0 |
| | | Specific Conductance | 307 | UMHOS/CM | 1.0 |
| | | Total Dissolved Solids | 224 | MG/L | 5.0 |
| -003 | B00F47 | Alkalinity | 92.0 | MG/L | 2.0 |
| | | Chloride by IC | 9.2 | mg/L | 0.25 |
| | | Fluoride by IC | 0.67 | mg/L | 0.50 |
| | | Nitrite by IC | 0.25 u | mg/L | 0.25 |
| | | Nitrate by IC | 3.6 | 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 | 23.3 | mg/L | 2.5 |
| | | Hardness | 98.4 | MG/L | 2.0 |
| | | Nitrate Nitrite | 0.98 | MG/L | 0.10 |
| | | Ammonia, as N | 0.10 u | MG/L | 0.10 |
| | | Total Organic Carbon | 1.1 | MG/L | 0.50 |
| | | pH | 7.9 | PH UNITS | 0.10 |
| | | Sulfate | 24.3 | MG/L | 5.0 |
| | | Specific Conductance | 289 | UMHOS/CM | 1.0 |
| | | Total Dissolved Solids | 205 | MG/L | 5.0 |

9713512.1409

ROY F. WESTON INC.

INORGANICS METHOD BLANK DATA SUMMARY PAGE 03/29/91

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

WESTON BATCH #: 9103L815

| SAMPLE | SITE ID | ANALYTE | RESULT | UNITS | REPORTING LIMIT |
|---|---|---|---|---|---|
| BLANK10 | 91LAL004-MB1 | Alkalinity | 0.50 u | MG/L | 0.50 |
| BLANK20 | 91LAL004-MB2 | Alkalinity | 0.50 u | MG/L | 0.50 |
| BLANK30 | 91LAL004-MB3 | Alkalinity | 0.50 | MG/L | 0.50 |
| BLANK40 | 91LAL004-MB4 | Alkalinity | 0.50 | MG/L | 0.50 |
| BLANK50 | 91LAL004-MB5 | Alkalinity | 2.0 u | MG/L | 2.0 |
| BLANK60 | 91LAL004-MB6 | Alkalinity | 2.0 u | MG/L | 2.0 |
| BLANK1 | 91LIC10-MB1 | Chloride by IC | 0.25 u | mg/L | 0.25 |
| | | Fluoride by IC | 0.50 u | mg/L | 0.50 |
| | | Nitrite by IC | 0.25 u | mg/L | 0.25 |
| | | Nitrate by IC | 0.25 u | mg/L | 0.25 |
| | | Phosphate by IC | 0.25 u | mg/L | 0.25 |
| | | Sulfate by IC | 0.25 u | mg/L | 0.25 |
| BLANK1 | 91LC102-MB1 | Cyanide, Total | 10.0 u | UG/L | 10.0 |
| BLANK10 | 91LHD004-MB1 | Hardness | 1.0 u | MG/L | 1.0 |
| BLANK20 | 91LHD004-MB2 | Hardness | 1.0 u | MG/L | 1.0 |

9713512.1410

ROY F. WESTON INC.

INORGANICS METHOD BLANK DATA SUMMARY PAGE 03/29/91

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

WESTON BATCH #: 9103L815

| SAMPLE | SITE ID | ANALYTE | RESULT | UNITS | REPORTING LIMIT |
|---|---|---|---|---|---|
| BLANK30 | 91LHD004-MB3 | Hardness | 1.0 u | MG/L | 1.0 |
| BLANK10 | 91LNO110-MB1 | Nitrate Nitrite | 0.10 u | MG/L | 0.10 |
| BLANK10 | 91LAM035-MB1 | Ammonia, as N | 0.10 u | MG/L | 0.10 |
| BLANK20 | 91LAM035-MB2 | Ammonia, as N | 0.10 u | MG/L | 0.10 |
| BLANK30 | 91LAM035-MB3 | Ammonia, as N | 0.10 u | MG/L | 0.10 |
| BLANK10 | 91LTC052-MB1 | Total Organic Carbon | 0.50 u | MG/L | 0.50 |
| BLANK20 | 91LTC052-MB2 | Total Organic Carbon | 0.50 u | MG/L | 0.50 |
| BLANK30 | 91LTC052-MB3 | Total Organic Carbon | 0.50 u | MG/L | 0.50 |
| BLANK10 | 91LS4017-MB1 | Sulfate | 5.0 u | MG/L | 5.0 |
| BLANK20 | 91LS4017-MB2 | Sulfate | 5.0 u | MG/L | 5.0 |

9713592.1411

ROY F. WESTON INC.

INORGANICS METHOD BLANK DATA SUMMARY PAGE 03/29/91

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

WESTON BATCH #: 9103L815

| SAMPLE | SITE ID | ANALYTE | RESULT | | UNITS | REPORTING LIMIT |
|---|---|---|---|---|---|---|
| BLANK30 | 91LS4017-MB3 | Sulfate | 5.0 | u | MG/L | 5.0 |
| BLANK40 | 91LS4017-MB4 | Sulfate | 5.0 | u | MG/L | 5.0 |
| BLANK10 | 91LSP024-MB1 | Specific Conductance | 1.0 | u | UMHOS/CM | 1.0 |
| BLANK20 | 91LSP024-MB2 | Specific Conductance | 1.0 | u | UMHOS/CM | 1.0 |
| BLANK30 | 91LSP024-MB3 | Specific Conductance | 1.0 | u | UMHOS/CM | 1.0 |
| BLANK40 | 91LSP024-MB4 | Specific Conductance | 1.0 | u | UMHOS/CM | 1.0 |
| BLANK10 | 91LSS021-MB1 | Total Dissolved Solids | 15.0 | | MG/L | 5.0 |

9713512.1412

ROY F. WESTON INC.

INORGANICS ACCURACY REPORT 03/29/91

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

WESTON BATCH #: 9103L815

| SAMPLE | SITE ID | ANALYTE | SPIKED SAMPLE | INITIAL RESULT | SPIKED AMOUNT | %RECOV |
|---|---|---|---|---|---|---|
| -001 | B00F44 | Total Organic Carbon | 5.2 | 0.62 | 5.0 | 91.2 |
| | | Total Organic Carbon | 5.3 | 0.62 | 5.0 | 93.2 |
| BLANK10 | 91LAL004-MB1 | Alkalinity | 104 | 0.50u | 100 | 104 |
| BLANK20 | 91LAL004-MB2 | Alkalinity | 100 | 0.50u | 100 | 100 |
| BLANK30 | 91LAL004-MB3 | Alkalinity | 104 | 0.50 | 100 | 104 |
| BLANK40 | 91LAL004-MB4 | Alkalinity | 104 | 0.50 | 100 | 104 |
| BLANK50 | 91LAL004-MB5 | Alkalinity | 100 | 2.0 u | 100 | 100 |
| BLANK60 | 91LAL004-MB6 | Alkalinity | 102 | 2.0 u | 100 | 102 |
| BLANK1 | 91LIC10-MB1 | Chloride by IC | 5.0 | 0.25u | 5.0 | 99.6 |
| | | Fluoride by IC | 10.0 | 0.50u | 10.0 | 100 |
| | | Nitrite by IC | 5.0 | 0.25u | 5.0 | 99.5 |
| | | Nitrate by IC | 5.0 | 0.25u | 5.0 | 99.5 |
| | | Phosphate by IC | 5.0 | 0.25u | 5.0 | 99.8 |
| | | Sulfate by IC | 5.0 | 0.25u | 5.0 | 100 |
| BLANK10 | 91LHD004-MB1 | Hardness | 100 | 1.0 u | 100 | 100 |
| BLANK20 | 91LHD004-MB2 | Hardness | 100 | 1.0 u | 100 | 100 |
| | | Hardness MSD | 70.5 | 1.0 u | 70.5 | 100 |

9713512.1413

ROY F. WESTON INC.

INORGANICS ACCURACY REPORT 03/29/91

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

WESTON BATCH #: 9103L815

| SAMPLE | SITE ID | ANALYTE | SPIKED SAMPLE | INITIAL RESULT | SPIKED AMOUNT | %RECOV |
|---|---|---|---|---|---|---|
| BLANK30 | 91LHD004-MB3 | Hardness | 102 | 1.0 u | 100 | 102 |
| BLANK10 | 91LNO110-MB1 | Nitrate Nitrite | 0.42 | 0.10u | 0.40 | 105 |
| | | Nitrate Nitrite MSD | 0.41 | 0.10u | 0.40 | 102 |
| BLANK10 | 91LAM035-MB1 | Ammonia, as N | 0.20 | 0.10u | 0.20 | 100 |
| BLANK20 | 91LAM035-MB2 | Ammonia, as N | 1.0 | 0.10u | 1.0 | 102 |
| BLANK30 | 91LAM035-MB3 | Ammonia, as N | 9.6 | 0.10u | 10.0 | 96.5 |
| BLANK10 | 91LTC052-MB1 | Total Organic Carbon | 4.7 | 0.50u | 5.0 | 93.7 |
| | | Total Organic Carbon | 4.9 | 0.50u | 5.0 | 97.7 |
| BLANK20 | 91LTC052-MB2 | Total Organic Carbon | 4.9 | 0.50u | 5.0 | 97.7 |
| BLANK30 | 91LTC052-MB3 | Total Organic Carbon | 4.7 | 0.50u | 5.0 | 93.7 |
| BLANK10 | 91LS4017-MB1 | Sulfate | 20.6 | 5.0 u | 20.0 | 103 |
| | | Sulfate | 20.3 | 5.0 u | 20.0 | 102 |
| BLANK20 | 91LS4017-MB2 | Sulfate | 19.9 | 5.0 u | 20.0 | 99.7 |

9713512.1414

ROY F. WESTON INC.

INORGANICS ACCURACY REPORT 03/29/91

CLIENT: WESTINGHOUSE HANFORD

WESTON BATCH #: 9103L815

WORK ORDER: 6168-02-01-0000

| SAMPLE | SITE ID | ANALYTE | SPIKED SAMPLE | INITIAL RESULT | SPIKED AMOUNT | %RECOV |
|---|---|---|---|---|---|---|
| BLANK30 | 91LS4017-MB3 | Sulfate | 19.9 | 5.0 u | 20.0 | 99.5 |
| BLANK40 | 91LS4017-MB4 | Sulfate | 20.1 | 5.0 u | 20.0 | 100 |
| BLANK10 | 91LSP024-MB1 | Specific Conductance | 143 | 1.0 u | 147 | 97.3 |
| BLANK20 | 91LSP024-MB2 | Specific Conductance | 686 | 1.0 u | 718 | 95.6 |
| BLANK30 | 91LSP024-MB3 | Specific Conductance | 1410 | 1.0 u | 1410 | 99.9 |
| BLANK40 | 91LSP024-MB4 | Specific Conductance | 685 | 1.0 u | 718 | 95.4 |

9713512.1415

ROY F. WESTON INC.

INORGANICS DUPLICATE SPIKE REPORT 03/29/91

CLIENT: WESTINGHOUSE HANFORD

WESTON BATCH #: 9103L815

WORK ORDER: 6168-02-01-0000

| SAMPLE | SITE ID | ANALYTE | SPIKE#1 %RECOV | SPIKE#2 %RECOV | %DIFF |
|---|---|---|---|---|---|
| -001 | B00F44 | Total Organic Carbon | 91.2 | 93.2 | 2.2 |
| LCS2 | 91LC102-LC2 | Cyanide, Total LCS | 97.5 | 99.3 | 1.8 |
| BLANK20 | 91LHD004-MB2 | Hardness | 100 | 100 | 0.30 |
| BLANK10 | 91LNO110-MB1 | Nitrate Nitrite | 105 | 102 | 2.3 |
| BLANK10 | 91LTC052-MB1 | Total Organic Carbon | 93.7 | 97.7 | 4.2 |
| BLANK10 | 91LS4017-MB1 | Sulfate | 103 | 102 | 1.4 |

9713512.1416

ROY F. WESTON INC.

INORGANICS PRECISION REPORT 03/29/91

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

WESTON BATCH #: 9103L815

| SAMPLE | SITE ID | ANALYTE | INITIAL RESULT | REPLICATE | % DIFF |
|---|---|---|---|---|---|
| -001REP | B00F44 | Total Organic Carbon | 0.62 | 0.72 | 14.8 |
| | | Specific Conductance | 307 | 307 | 0.00 |

9713512.1417

ROY F. WESTON INC.

INORGANICS LABORATORY CONTROL STANDARDS REPORT 03/29/91

| SAMPLE | SITE ID | ANALYTE | SPIKED SAMPLE | SPIKED AMOUNT | UNITS | %RECOV |
|---|---|---|---|---|---|---|
| LCS1 | 91LC102-LC1 | Cyanide, Total LCS | 97.5 | 100 | UG/L | 97.5 |
| LCS2 | 91LC102-LC2 | Cyanide, Total LCS | 99.3 | 100 | UG/L | 99.3 |

9713512.1418

# VALIDATION SUMMARY

9713512.1419

# OSM ORGANIC DATA ASSESSMENT

DATE 8.8.91 (LKT) SAMPLES/MATRIX B00F44

REVIEWED BY L.K. THOMPSON WATER B00F47

LABORATORY WESTON B00F97

CASE #

SDG # RFW # 91031815

## DATA ASSESSMENT SUMMARY

| | VOA | ABN | PEST |
|---|---|---|---|
| 1. Holding Times (Form I) | O | O | O |
| 2. Surrogate Recovery (II) | O | X | O |
| 3. Matrix Spike/ MSD (III) | O | X | O |
| 4. Blanks (IV) | X | X | O |
| 5. GC/MS Tune (V) | O | O | |
| 6. Calibration (VI-VII; VIII pest) | O | O | X |
| 7. Internal Standards (VIII) | O | X | |
| 8. Instr. Perform. (IX pest) | | | O |
| 9. Other ( ) | O | O | O |

O = data had no problems
X = data qualified due to minor problems
M = data qualified due to major problems, some data may be unusable

OVERALL ASSESSMENT: minor qualification. See attached Form I's.

NOTES : (1) Disregard BNA result for B00F47RE and B00F44RE (See p7 Internal STDS Discussion) only use B00F44 and B00F47 which has be qualified to this review.

Refer to the corresponding attachments for explanation of any problems.

9715512.1420

ORGANIC QC - Holding Times

Name LK THOMPSON (LKT) Date 8.8.91

COMMENTS: VOA - ALL HT REQUIREMENT MET

BNA - ALL HT REQUIREMENTS MET

PEST - ALL HT REQUIREMENTS MET

ACTION: none

| sample # | constituent | value/qual | sample # | constituent | value/qual |
|---|---|---|---|---|---|

9713512.1421

# ORGANIC QC - Surrogate Recovery

Name LK THOMPSON (LKT) Date 8.8.91

COMMENTS: (VOA): all SURROGATE RECOVERIES WITHIN QC LIMITS (FORM II)

(BNA): BOOF44 had one SURROGATE (S3 = TPH) high and OUTSIDE QC LIM.
A RE-ANALYSIS OF BOOF44 HAD ALL SURROGATE RECOVERIES WITHIN QC LIM
IRRESPECTIVE BOTH BOOF44 and BOOF44 RE are ACCEPTABLE WITHOUT
ANY NEED FOR QUALIFICATION DUE TO ONLY ONE SURROGATE OUT OF LIM

(PEST): all DBC SURROGATE RECOVERIES WITHIN QC LIMITS.

ACTION: None

| sample # | constituent | value/qual | sample # | constituent | value/qual |
|---|---|---|---|---|---|

# ORGANIC QC - MS/MSD

Name LK THOMPSON Date 8.8.91

COMMENTS: VOA A SAMPLE B00DL2 WAS SPIKED AND FOUND TO HAVE ALL OF 10 RECOVERIES WITHIN LIMITS and ALL OF 5 RPD, WITHIN QC LIMITS.

→ VOA B00DL2 DATA NOT INCLUDED IN THIS PACKAGE

BNA → ABSENT MS/MSD → LAB IS SPIKING BLANKS

THIS IS A CONTRACTUAL VIOLATION FROM CLP p E-40 SV ~~PARA~~ ~~E-1~~ PART 5 PARAGRAPHS 5, 5.1 and 5.2. (Note: MS/MSD performed on another RFW batch, issue has been resolved w/Weston)

~~ACTION:~~ BNA – The BS/BSD HAD one of 22 RECOVERIES OUTSIDE QC LIMIT and NO RPD OUTSIDE QC LIMIT ACTION NONE

PEST → B00F44 HAD ALL RECOVERIES WITHIN QC LIMIT

→ B00F44 HAD ALL RPDS WITHIN QC LIMITS

| ~~sample #~~ | ~~constituent~~ | ~~value/qual~~ | ~~sample #~~ | ~~constituent~~ | ~~value/qual~~ |
|---|---|---|---|---|---|

PEST → B00F47 HAD ALL RECOVERIES OUTSIDE QC LIMIT

→ B00F47 HAD ALL RPDS WITHIN QC LIMITS

→ B00F47 MS AND MSD LOOK AS IF A DOUB SPIKE OCCURED.

→ OVERALL PESTICIDES DUE TO B00F44 and

→ "DOUBLE" SPIKED B00F47 ARE ADEQUATE AND NO ACTION TO QUALIFY DATA DUE TO THE MS/MSD INFORMATION.

ACTION : NONE

# ORGANIC QC - Blanks

Name LKTHOMPSON LKT Date 8-8-91

COMMENTS: VOA: FORM IV IN ORDER → VBLK FOUND TO CONTAIN MeCl2 @ 17 ppb, Acetone @ 13ppb and no TICs

BNA: FORM IV IN ORDER – SBLK FOUND TO CONTAIN TEA – Di-n-Butyl phthalate @ 2ppb, bis (2ethylhexyl) phthalate @ 6ppb. and 20 TICs

PEST: FORM IV in ORDER – PBLK FOUND NO PEST ANALYTES.

ACTION: qualify associated data via OSM Guidelines

VOA

| sample # | constituent | value/qual |
|---|---|---|
| B00F44 | Methylene Chloride | 5U |
| ↓ | Acetone | 10U |
| B00F47 | Methylene Chloride | 5U |
| B00F97 | Methylene Chloride | 7U |
| | Acetone | 10U |

BNA

| sample # | constituent | value/qual |
|---|---|---|
| B00F44 | Bis (2-ethylhexyl) phthalate | 10U |
| B00F47 | Bis (2-ethylhexyl) phthalate | 10U |

BNA

| sample # | constituent | value/qual |
|---|---|---|
| B00F44 | TIC 2, 4, 5, 6, 7, 8, 9, 10 | Removed due to "Blank" rule |
| B00F47 | TIC 1, 2, 3, 4, 5, 6, 7, 10, 11 | Removed due "Blank" rule |

9713512.1424

# ORGANIC QC - GC/MS Tune

Name LK THOMPSON LKT Date 8.8.91

COMMENTS: VOA: all m/z calibration data for BFB TUNE WITHIN QC specifications IN FORM V VOA and data.

BNA: all m/z CALIBRATION DATA FOR DFTPP WITHIN SPECIFIED QC LIMITS AS VERIFIED IN DATA and FORM V.

ACTION: none

| sample # | constituent | value/qual | sample # | constituent | value/qual |
|---|---|---|---|---|---|

LKT

9713512.1425

# ORGANIC QC - Calibrations

Name LK THOMPSON Date 8.8.91

COMMENTS: VOA: INITIAL AND CONTINUING CALIBRATION DATA FOR CCC & SPCC'S CMPS WITHIN QC LIMITS

BNA: ALL INITIAL + CONTINUING CALIBRATION DATA FOR CCC'S + SPCC'S WITHIN QC LIMITS

PEST: 72 HOUR ANALYTICAL SEQUENCE CORRECT

% RSD INITIAL CALIBRATION OK

~~ACTION:~~ % D IN CONTINUING CALIBRATION >15% FOR METHOXY CHLOR IN QUANT AND >20% FOR ENDRIN + DELTABHC IN CONFIRMATION COLUMNS.

ACTION QUALITY AFFECTED DATA VIA OSM GUIDELINES

| sample # | constituent | value/qual | sample # | constituent | value/qual |
|---|---|---|---|---|---|
| B00F44 | ALL PESTICIDE ANALYTES | VALUE/UJ | | | |
| B00F47 | ↓ | VALUE/UJ | | | |

9713512.1426

ORGANIC QC - Internal Standards

Name LK THOMPSON (LKT) Date 6.8.91

COMMENTS: VOA: all IS areas within QC LIMITS

all IS RT within QC window limits.

BNA: BOOF44 IS3 area BELOW QC LIMIT

BOOF47 IS2 area BELOW QC LIMIT

BOOF44RE IS2 and IS3, IS4, IS5, IS6 AREAS BELOW QC LIMIT

BOOF47RE IS3 and IS4 area BELOW QC LIMITS

~~ACTION:~~ BEST RESULTS ARE ORIGINAL BOOF44 and BOOF47

DISREGARD BOOF44RE and BOOF47RE, QUALIFY BOOF44.

ACTION: QUALIFY AFFECTED DATA VIA OSM GUIDELINES.

| sample # | constituent | value/qual |
|---|---|---|
| BOOF44 | HEXACHLOROCYCLOPENTADIENE | 10 UJ |
| | 2,4,6-TRICHLOROPHENOL | 10 UJ |
| | 2,4,5 TRICHLOROPHENOL | 50 UJ |
| | 2-CHLORONAPHTHALENE | 10 UJ |
| | 2-NITROANILINE | 50 UJ |
| | DIMETHYL PHTHALATE | 10 UJ |
| | ACENAPHTHYLENE | 10 UJ |
| | 2,4 DINITROPHENOL | 50 UJ |
| | 4-NITROPHENOL | 50 UJ |
| | DIBENZOFURAN | 10 UJ |
| | 2,4 DINITROTOLUENE | 10 UJ |
| | 2,6 DINITROTOLUENE | 10 UJ |
| | DIETHYL PHTHALATE | 10 UJ |
| | 4-chloro phenyl/ phenyl/ ether | 10 UJ |
| | FLUORENE | 10 UJ |
| | 4-NITROANILINE | 50 UJ |
| | 3 NITROANILINE | 50 UJ |
| | ACENAPHTHENE | 10 UJ |

| sample # | constituent | value/qual |
|---|---|---|
| BOOF47 | NITROBENZENE | 10 UJ |
| | ISOPHORONE | 10 UJ |
| | 2-NITROPHENOL | 10 UJ |
| | 2,4-DIMETHYL PHENOL | 10 UJ |
| | BENZOIC ACID | 50 UJ |
| | bis(2-chloroethoxy)methane | 10 U |
| | 2,4 Dichloro phenol | 10 U |
| | 1,2,4 TRICHLOROBENZENE | 10 U |
| | NAPHTHALENE | 10 U |
| | 4-chloro aniline | 10 |
| | HEXACHLOROBUTADIENE | 10 |
| | 4-chloro-3methyl phenol | 10 |
| | 2-methyl NAPHTHALENE | 10 |

0713512.1427

ORGANIC QC - Instrument Performance (pest)

Name LK THOMPSON LKT Date 8.8.91

COMMENTS: DDT/ENDRIN BREAKDOWN CHECK OK
%D FOR DBC RT WINDOW OK FOR MEGABORE <1.5%
ALL PESTICIDE RTS WITHIN WINDOWS (FORM IX)
DDT RETENTION TIME > 12 min

ACTION: none

| sample # | constituent | value/qual | sample # | constituent | value/qual |
|---|---|---|---|---|---|

9713512.1428

ORGANIC QC - Other

Name LK THOMPSON LKT Date 8.8.91

COMMENTS: VOA - none

BNA - none

PEST - none

ACTION: none

| sample # | constituent | value/qual | sample # | constituent | value/qual |
|---|---|---|---|---|---|

9135142.1429

1A

VOLATILE ORGANICS ANALYSIS SHEET

0000014

CLIENT SAMPLE NO.

B00F44

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9103L815-001

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

Lab File ID: AK3D07

Level: (low/med) LOW

Date Received: 03/06/91

% Moisture: not dec. _____

Date Analyzed: 03/13/91

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 | ~~25~~ | ~~JBU~~ |
| 67-64-1 | Acetone | ~~310~~ | ~~JBU~~ |
| 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 |

LKS 8.8.91

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0000015

CLIENT SAMPLE NO.

B00F44

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9103L815-001

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

Lab File ID: AK3D07

Level: (low/med) LOW

Date Received: 03/06/91

% Moisture: not dec. _____

Date Analyzed: 03/13/91

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. | | | | |

1A

VOLATILE ORGANICS ANALYSIS SHEET 000002 1

CLIENT SAMPLE NO.

B00F47

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 9103L815-003

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: AK3D08

Level: (low/med) LOW Date Received: 03/06/91

% Moisture: not dec. _____ Date Analyzed: 03/13/91

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~~ 5 | ~~JB~~ U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 1 | J |
| 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 |

LK 8.8.91

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS 0000022

CLIENT SAMPLE NO.

B00F47

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9103L815-003

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

Lab File ID: AK3D08

Level: (low/med) LOW

Date Received: 03/06/91

% Moisture: not dec. _____

Date Analyzed: 03/13/91

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. | | | | |

1A

VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

0000028

B00F97

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9103L815-005

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

Lab File ID: AK3D09

Level: (low/med) LOW

Date Received: 03/06/91

% Moisture: not dec. _____

Date Analyzed: 03/13/91

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 | 7 | ~~B~~ U |
| 67-64-1 | Acetone | ~~1~~ 10 | ~~JB~~ U |
| 75-15-0 | Carbon Disulfide | 1 | J |
| 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 | 2 | J |
| 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 |

LKT 8.8.91

9112112.1434

CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS 0000029

B00F97

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9103L815-005

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

Lab File ID: AK3D09

Level: (low/med) LOW

Date Received: 03/06/91

% Moisture: not dec. _____

Date Analyzed: 03/13/91

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. | | | | |

9213512.1435

1B

SEMIVOLATILE ORGANICS ANALYSIS SHEET 0000021

CLIENT SAMPLE NO.

B00F44

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 9103L815-001

Sample wt/vol: 990 (g/mL) ML Lab File ID: L032810

Level: (low/med) LOW Date Received: 03/06/91

% Moisture: not dec. _____ dec. Date Extracted: 03/10/91

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 03/28/91

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 | 10 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 100-51-6 | Benzyl alcohol | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 65-85-0 | Benzoic acid | 50 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | ~~U~~ UJ |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | ~~U~~ UJ |
| 95-95-4 | 2,4,5-Trichlorophenol | 50 | ~~U~~ UJ |
| 91-58-7 | 2-Chloronaphthalene | 10 | ~~U~~ UJ |
| 88-74-4 | 2-Nitroaniline | 50 | ~~U~~ UJ |
| 131-11-3 | Dimethylphthalate | 10 | ~~U~~ UJ |
| 208-96-8 | Acenaphthylene | 10 | ~~U~~ UJ |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | ~~U~~ UJ |

LCT 8.8.91

9113512.1456

IC

SEMIVOLATILE ORGANICS ANALYSIS SHEET 0000022

CLIENT SAMPLE NO.

B00F44

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 9103L815-001

Sample wt/vol: 990 (g/mL) ML Lab File ID: L032810

Level: (low/med) LOW Date Received: 03/06/91

% Moisture: not dec. _____ dec. Date Extracted: 03/10/91

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 03/28/91

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 | 50 | ~~U~~ UJ |
| 83-32-9 | Acenaphthene | 10 | ~~U~~ UJ |
| 51-28-5 | 2,4-Dinitrophenol | 50 | ~~U~~ UJ |
| 100-02-7 | 4-Nitrophenol | 50 | ~~U~~ UJ |
| 132-64-9 | Dibenzofuran | 10 | ~~U~~ UJ |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | ~~U~~ UJ |
| 84-66-2 | Diethylphthalate | 10 | ~~U~~ UJ |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | ~~U~~ UJ |
| 86-73-7 | Fluorene | 10 | ~~U~~ UJ |
| 100-01-6 | 4-Nitroaniline | 50 | ~~U~~ UJ |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 50 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 20 | U |
| 56-55-3 | Benzo(a)anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ~~2~~10 | ~~JBR~~ |
| 117-84-0 | Di-n-Octyl phthalate | 10 | U |
| 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 10 | U |

(1) - Cannot be separated from Diphenylamine

LWT 8.8.91

FORM 1 SV-2 12/88 Rev.

1F

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0000023

CLIENT SAMPLE NO.

B00F44

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9103L815-001

Sample wt/vol: 990 (g/mL) ML

Lab File ID: L032810

Level: (low/med) LOW

Date Received: 03/06/91

% Moisture: not dec. _____ dec.

Date Extracted: 03/10/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 03/28/91

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

Dilution Factor: 1.00

Number TICs found: 10

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | TRICHLOROPROPENE | 6.43 | 8 | J |
| 2. | ~~UNKNOWN~~ | ~~6.53~~ | ~~20~~ | ~~JB~~ |
| 3. | UNKNOWN | 9.93 | 10 | J |
| 4. | ~~HYDROCARBON~~ | ~~20.72~~ | ~~500~~ | ~~JB~~ |
| 5. | ~~UNKNOWN~~ | ~~20.85~~ | ~~30~~ | ~~JB~~ |
| 6. | ~~UNKNOWN~~ | ~~21.02~~ | ~~20~~ | ~~JB~~ |
| 7. | ~~HYDROCARBON~~ | ~~21.12~~ | ~~8~~ | ~~JB~~ |
| 8. | ~~UNKNOWN~~ | ~~21.28~~ | ~~10~~ | ~~JB~~ |
| 9. | ~~UNKNOWN~~ | 22.08 | 7 | ~~JB~~ |
| 10. | ~~UNKNOWN~~ | ~~22.62~~ | ~~7~~ | ~~JB~~ |

UC 9.8.91

9213512.1458

1B

SEMIVOLATILE ORGANICS ANALYSIS SHEET

0000051

CLIENT SAMPLE NO.

B00F47

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9103L815-003

Sample wt/vol: 990 (g/mL) ML

Lab File ID: L032811

Level: (low/med) LOW

Date Received: 03/06/91

% Moisture: not dec. _____ dec.

Date Extracted: 03/10/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 03/28/91

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 | 10 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 100-51-6 | Benzyl alcohol | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | bis(2-Chloroisopropyl)ether | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | ~~U~~ UJ |
| 78-59-1 | Isophorone | 10 | ~~U~~ UJ |
| 88-75-5 | 2-Nitrophenol | 10 | ~~U~~ UJ |
| 105-67-9 | 2,4-Dimethylphenol | 10 | ~~U~~ UJ |
| 65-85-0 | Benzoic acid | 50 | ~~U~~ UJ |
| 111-91-1 | bis(2-Chloroethoxy)methane | 10 | ~~U~~ UJ |
| 120-83-2 | 2,4-Dichlorophenol | 10 | ~~U~~ UJ |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | ~~U~~ UJ |
| 91-20-3 | Naphthalene | 10 | ~~U~~ UJ |
| 106-47-8 | 4-Chloroaniline | 10 | ~~U~~ UJ |
| 87-68-3 | Hexachlorobutadiene | 10 | ~~U~~ UJ |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | ~~U~~ UJ |
| 91-57-6 | 2-Methylnaphthalene | 10 | ~~U~~ UJ |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 50 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |

CKT 8.8.91

9713542.1439

SEMIVOLATILE ORGANICS ANALYSIS SHEET

0000052

CLIENT SAMPLE NO.

B00F47

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 9103L815-003

Sample wt/vol: 990 (g/mL) ML Lab File ID: L032811

Level: (low/med) LOW Date Received: 03/06/91

% Moisture: not dec. _____ dec. Date Extracted: 03/10/91

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 03/28/91

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 | 50 | U |
| 83-32-9 | Acenaphthene | 10 | U |
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | 50 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 50 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 84-74-2 | Di-n-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 20 | U |
| 56-55-3 | Benzo(a)anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ~~3~~10 | ~~JBN~~ |
| 117-84-0 | Di-n-Octyl phthalate | 10 | U |
| 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 10 | U |

LKT 8.8.91

(1) - Cannot be separated from Diphenylamine

97 9512 1440

SEMIVOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0000053

CLIENT SAMPLE NO.

B00F47

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER

Lab Sample ID: 9103L815-003

Sample wt/vol: 990 (g/mL) ML

Lab File ID: L032811

Level: (low/med) LOW

Date Received: 03/06/91

% Moisture: not dec. _____ dec.

Date Extracted: 03/10/91

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 03/28/91

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

Dilution Factor: 1.00

Number TICs found: 11

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| ~~1.~~ | ~~UNKNOWN~~ | ~~6.53~~ | ~~20~~ | ~~JB~~ |
| ~~2.~~ | ~~UNKNOWN~~ | ~~19.28~~ | ~~7~~ | ~~JB~~ |
| ~~3.~~ | ~~HYDROCARBON~~ | ~~20.72~~ | ~~1000~~ | ~~JB~~ |
| ~~4.~~ | ~~UNKNOWN~~ | ~~20.83~~ | ~~70~~ | ~~JB~~ |
| ~~5.~~ | ~~UNKNOWN~~ | ~~21.00~~ | ~~50~~ | ~~JB~~ |
| ~~6.~~ | ~~HYDROCARBON~~ | ~~21.12~~ | ~~20~~ | ~~JB~~ |
| ~~7.~~ | ~~UNKNOWN~~ | ~~21.27~~ | ~~30~~ | ~~JB~~ |
| 8. | UNKNOWN | 21.40 | 10 | J |
| 9. | HYDROCARBON | 21.50 | 5 | J |
| ~~10.~~ | ~~HYDROCARBON~~ | ~~22.07~~ | ~~20~~ | ~~JB~~ |
| ~~11.~~ | ~~UNKNOWN~~ | ~~22.58~~ | ~~20~~ | ~~JB~~ |

LAT 8.8.91

9113512.1441

ID

# PESTICIDE ORGANICS ANALYSIS SHEET

0000017

CLIENT SAMPLE NO.

B00F44

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 9103L815-001

Sample wt/vol: 990 (g/mL) ML Lab File ID: 04149103.14

Level: (low/med) LOW Date Received: 03/06/91

% Moisture: not dec. _____ dec. Date Extracted: 03/08/91

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 04/15/91

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 | 0.050 | U UJ |
| 319-85-7 | Beta-BHC | 0.050 | U UJ |
| 319-86-8 | Delta-BHC | 0.050 | U UJ |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U UJ |
| 76-44-8 | Heptachlor | 0.050 | U UJ |
| 309-00-2 | Aldrin | 0.050 | U UJ |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U UJ |
| 959-98-8 | Endosulfan I | 0.050 | U UJ |
| 60-57-1 | Dieldrin | 0.10 | U UJ |
| 72-55-9 | 4,4'-DDE | 0.10 | U UJ |
| 72-20-8 | Endrin | 0.10 | U UJ |
| 33213-65-9 | Endosulfan II | 0.10 | U UJ |
| 72-54-8 | 4,4'-DDD | 0.10 | U UJ |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U UJ |
| 50-29-3 | 4,4'-DDT | 0.10 | U UJ |
| 72-43-5 | Methoxychlor | 0.50 | U UJ |
| 53494-70-5 | Endrin ketone | 0.10 | U UJ |
| 5103-71-9 | alpha-Chlordane | 0.50 | U UJ |
| 5103-74-2 | gamma-Chlordane | 0.50 | U UJ |
| 8001-35-2 | Toxaphene | 1.0 | U UJ |
| 12674-11-2 | Aroclor-1016 | 0.50 | U UJ |
| 11104-28-2 | Aroclor-1221 | 0.50 | U UJ |
| 11141-16-5 | Aroclor-1232 | 0.50 | U UJ |
| 53469-21-9 | Aroclor-1242 | 0.50 | U UJ |
| 12672-29-6 | Aroclor-1248 | 0.50 | U UJ |
| 11097-69-1 | Aroclor-1254 | 1.0 | U UJ |
| 11096-82-5 | Aroclor-1260 | 1.0 | U UJ |

LKF 8.8.91

LC 6/6/91

FORM 1 PEST 12/88 Rev.

9213512.1442

1D

# PESTICIDE ORGANICS ANALYSIS SHEET 0000022

CLIENT SAMPLE NO.

B00F47

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

Client: WESTINGHOUSE HANFORD

Matrix: WATER Lab Sample ID: 9103L815-003

Sample wt/vol: 990 (g/mL) ML Lab File ID: 04149103.15

Level: (low/med) LOW Date Received: 03/06/91

% Moisture: not dec. _____ dec. Date Extracted: 03/08/91

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 04/15/91

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 | 0.050 | U UJ |
| 319-85-7 | Beta-BHC | 0.050 | U UJ |
| 319-86-8 | Delta-BHC | 0.050 | U UJ |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U UJ |
| 76-44-8 | Heptachlor | 0.050 | U UJ |
| 309-00-2 | Aldrin | 0.050 | U UJ |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U UJ |
| 959-98-8 | Endosulfan I | 0.050 | U UJ |
| 60-57-1 | Dieldrin | 0.10 | U UJ |
| 72-55-9 | 4,4'-DDE | 0.10 | U UJ |
| 72-20-8 | Endrin | 0.10 | U UJ |
| 33213-65-9 | Endosulfan II | 0.10 | U UJ |
| 72-54-8 | 4,4'-DDD | 0.10 | U UJ |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U UJ |
| 50-29-3 | 4,4'-DDT | 0.10 | U UJ |
| 72-43-5 | Methoxychlor | 0.50 | U UJ |
| 53494-70-5 | Endrin ketone | 0.10 | U UJ |
| 5103-71-9 | alpha-Chlordane | 0.50 | U UJ |
| 5103-74-2 | gamma-Chlordane | 0.50 | U UJ |
| 8001-35-2 | Toxaphene | 1.0 | U UJ |
| 12674-11-2 | Aroclor-1016 | 0.50 | U UJ |
| 11104-28-2 | Aroclor-1221 | 0.50 | U UJ |
| 11141-16-5 | Aroclor-1232 | 0.50 | U UJ |
| 53469-21-9 | Aroclor-1242 | 0.50 | U UJ |
| 12672-29-6 | Aroclor-1248 | 0.50 | U UJ |
| 11097-69-1 | Aroclor-1254 | 1.0 | U UJ |
| 11096-82-5 | Aroclor-1260 | 1.0 | U UJ |

LKI 8.8.91

6/6/91

FORM 1 PEST 12/88 Rev.

Westinghouse Hanford Company

9213512.1443

# OSM RCRA LEVEL C DATA ASSESSMENT

DATE 7/7/91

SAMPLES/MATRIX B00F44 _____ _____

REVIEWED BY JA Lerch

B00F47 -both water

LABORATORY Weston

CASE # —

SDG # —

RFW # 91031815

## DATA ASSESSMENT SUMMARY

| QUALITY CONTROL CHECK | ANALYSIS | Anions IC[1] | $NO_2/NO_3$ | ammonia |
|---|---|---|---|---|
| 1. Holding time | | X | O | O |
| 2. Blank Analysis | | O | O | O |
| 3. Matrix Spike | | O | O | O |
| 4. Duplicates | | NE | O | NE |
| 5. | | | | |
| 6. | | | | |
| 7. | | | | |
| 8. | | | | |
| 9. | | | | |
| 10. | | | | |

O = data had no problems
X = data qualified due to minor problems
M = data qualified due to major problems/some data may be unusable
NE - not evaluated

OVERALL ASSESSSMENT: no major problems—all results acceptable w/attached qualification

NOTES: disregard all CN results included in this data package - CN results to be reported and validated in CLP format

o Refer to the corresponding attachments for explanation of any problems.

Anions IC includes: Chloride, Nitrate, Nitrite, Phosphate, Fluoride, Sulfate

SA 7900 046

Westinghouse Hanford Company

9713512.1444

# OSM RCRA LEVEL C DATA ASSESSMENT (cont pg 2)

DATE 7/7/91 SAMPLES/MATRIX See Cover

REVIEWED BY JA Lerch

LABORATORY Weston

CASE # —

SDG # —

RFW # 9103L815

## DATA ASSESSMENT SUMMARY

| QUALITY CONTROL CHECK | ANALYSIS | TOC | Sulfate | Alkalinity |
|---|---|---|---|---|
| 1. Holding time | | O | O | O |
| 2. Blank Analysis | | O | O | ~~O~~ X |
| 3. Matrix Spike | | O | O | O |
| 4. Duplicates | | O | O | NE |
| 5. | | | | |
| 6. | | | | |
| 7. | | | | |
| 8. | | | | |
| 9. | | | | |
| 10. | | | | |

O = data had no problems
X = data qualified due to minor problems
M = data qualified due to major problems/some data may be unusable
NE - not evaluated

OVERALL ASSESSSMENT: See Cover

NOTES: See Cover

o Refer to the corresponding attachments for explanation of any problems.

54 7900 046

9713512.1445

Westinghouse
Hanford Company

# OSM RCRA LEVEL C DATA ASSESSMENT (cont pg 3)

DATE 7/7/91 SAMPLES/MATRIX See Cover

REVIEWED BY JA Lerch

LABORATORY Weston

CASE # —

SDG # —

RFW # 9103L815

## DATA ASSESSMENT SUMMARY

| QUALITY CONTROL CHECK | ANALYSIS | Hardness | Conductance | TDS |
|---|---|---|---|---|
| 1. Holding time | | O | O | O |
| 2. Blank Analysis | | O | O | X |
| 3. Matrix Spike | | O | O | N/A |
| 4. Duplicates | | O | O | NE |
| 5. | | | | |
| 6. | | | | |
| 7. | | | | |
| 8. | | | | |
| 9. | | | | |
| 10. | | | | |

O = data had no problems
X = data qualified due to minor problems
M = data qualified due to major problems/some data may be unusable
NE - not evaluated

OVERALL ASSESSSMENT: See Cover

NOTES: See Cover

o Refer to the corresponding attachments for explanation of any problems.

54 /9110 046

9713512.1446

RCRA LEVEL C QC

Name HA Lerch Date 7/7/91

QC Check: Holding Time

COMMENTS: Anions – 48 hrs holding time exceeded for Nitrate, Nitrite, Phosphate
TOC, ammonia, sulfate, $NO_2/NO_3$, conductance – all samples analyzed within 28 day holding time
Alkalinity – all samples analyzed within 14 day HT

ACTION: qualify associated results as per OSM guidelines

| sample # | constituent | value/qual | sample # | constituent | value/qual |
|---|---|---|---|---|---|
| B00F41 | Nitrate | 6.7 UJ | | | |
| | Nitrite | .25 UJ | | | |
| | Phosphate | .25 UJ | | | |
| B00F47 | Nitrate | 3.6 J | | | |
| | Nitrite | .25 UJ | | | |
| | Phosphate | .25 UJ | | | |

9713512.1447

RCRA LEVEL C QC

Name JA Lerch Date 7/7/91

QC Check: Holding time (cont)

COMMENTS: TDS, Hardness – no holding time spec. – both samples analyzed within 7 days

ACTION: none

| sample # | constituent | value/qual | sample # | constituent | value/qual |
|---|---|---|---|---|---|

RCRA LEVEL C QC

Name JA Lerch Date 7/7/91

QC Check: Blank Analysis

COMMENTS: Alkalinity - trace contamination detected at the quantitation limit
Anions - method blank results ok (91LIC10-MB1)
Hardness - method blank results ok (91LHD004-MB1 thru MB3)
$NO_2/NO_3$ - blank result ok (91LND110-MB1)

ACTION: qualify associated results as per OSM guidelines

| sample # | constituent | value/qual | sample # | constituent | value/qual |
|---|---|---|---|---|---|
| all | alkalinity | acceptable | | | |

RCRA LEVEL C QC

Name JA Lerch Date 7/7/91

QC Check: Blank Analysis (cont)

COMMENTS: Ammonia- method blank results ok (91LAM035-MB1 thru MB3)
TOC-method blanks ok (91LTC052-MB1 + MB2)
Sulfate-blanks free of contamination for (91LS4017-MB1 thru MB4)
Conductance-method blank results ok (91LSP024-MB1 thru MB4)
~~ACTION:~~ TDS-trace levels detected above DL (91LSS021-MB1)
Action: qualify associated results as per OSM guidelines

| sample # | constituent | value/qual | sample # | constituent | value/qual |
|---|---|---|---|---|---|
| all | TDS | acceptable | | | |

RCRA LEVEL C QC

Name JA Lerch Date 7/7/91

QC Check: Matrix Spike

COMMENTS: TOC - spike + dup spike recoveries acceptable (B00F44)
Alkalinity, Anions, Hardness, $NO_3/NO_2$, Ammonia, TOC, Sulfate, and Conductance — all blank spike recoveries acceptable

ACTION: none

| sample # | constituent | value/qual | sample # | constituent | value/qual |
|---|---|---|---|---|---|

RCRA LEVEL C QC

Name JA Lerch Date 7/7/91

QC Check: Duplicates

COMMENTS: TOC – MS/MSD RPD < 10% (B00F44); replicate RPD < 15%
Hardness, $NO_2/NO_3$, TOC, Sulfate – all blank spike, blank spike dup RPD's < 10%
Conductance – Replicate RPD acceptable (B00F44)
Dup results not reported for Anions, Alkalinity, TDS, ammonia; other sample
~~ACTION:~~ from this project have not shown problems

Action: none

| sample # | constituent | value/qual | sample # | constituent | value/qual |
|---|---|---|---|---|---|

9713512.1452

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 03/29/91

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

WESTON BATCH #: 9103L815

| SAMPLE | SITE ID | ANALYTE | RESULT | UNITS | REPORTING LIMIT |
|---|---|---|---|---|---|
| -001 | B00F44 | Alkalinity | 100 | MG/L | 2.0 |
| | | Chloride by IC | 16.1 | mg/L | 2.5 |
| | | Fluoride by IC | 0.86 | mg/L | 0.50 |
| | | Nitrite by IC | 0.25 uJ | mg/L | 0.25 |
| | | Nitrate by IC | 6.7 J | mg/L | 0.25 |
| | | ~~Cyanide, Total~~ | 10.0 u | UG/L | 10.0 |
| | | Phosphate by IC | 0.25 uJ | mg/L | 0.25 |
| | | Sulfate by IC | 28.7 | mg/L | 2.5 |
| | | Hardness | 102 | MG/L | 2.0 |
| | | Nitrate Nitrite | 1.6 | MG/L | 0.10 |
| | | Ammonia, as N | 0.10 u | MG/L | 0.10 |
| | | Total Organic Carbon | 0.62 | MG/L | 0.50 |
| | | pH | 8.2 | PH UNITS | 0.10 |
| | | Sulfate | 29.9 | MG/L | 5.0 |
| | | Specific Conductance | 307 | UMHOS/CM | 1.0 |
| | | Total Dissolved Solids | 224 | MG/L | 5.0 |
| -003 | B00F47 | Alkalinity | 92.0 | MG/L | 2.0 |
| | | Chloride by IC | 9.2 | mg/L | 0.25 |
| | | Fluoride by IC | 0.67 | mg/L | 0.50 |
| | | Nitrite by IC | 0.25 uJ | mg/L | 0.25 |
| | | Nitrate by IC | 3.6 J | mg/L | 0.25 |
| | | ~~Cyanide, Total~~ | 10.0 u | UG/L | 10.0 |
| | | Phosphate by IC | 0.25 uJ | mg/L | 0.25 |
| | | Sulfate by IC | 23.3 | mg/L | 2.5 |
| | | Hardness | 98.4 | MG/L | 2.0 |
| | | Nitrate Nitrite | 0.98 | MG/L | 0.10 |
| | | Ammonia, as N | 0.10 u | MG/L | 0.10 |
| | | Total Organic Carbon | 1.1 | MG/L | 0.50 |
| | | pH | 7.9 | PH UNITS | 0.10 |
| | | Sulfate | 24.3 | MG/L | 5.0 |
| | | Specific Conductance | 289 | UMHOS/CM | 1.0 |
| | | Total Dissolved Solids | 205 | MG/L | 5.0 |

7/7/91

9713512.1453

Westinghouse Hanford Company

# OSM RCRA LEVEL C DATA ASSESSMENT

DATE 11/9/91

REVIEWED BY JA Lerch

LABORATORY Weston

~~CASE #~~ RKW 91031787 (also 91031815)

SDG # N/A

SAMPLES/MATRIX

| | | |
|---|---|---|
| B00F12 | B00F32 | B00F28 |
| B00F13 | B00F09 | B00F29 |
| B00F34 | B00F10 | B00F44 |
| B00F35 | B00F19 | B00F45 |
| B00F51 | B00F20 | B00F47 |
| all water | | B00F48 |

## DATA ASSESSMENT SUMMARY

| QUALITY CONTROL CHECK | ANALYSIS ICP(Bi, Sr, Sn) | | |
|---|---|---|---|
| 1. Holding time | O | | |
| 2. Blanks | O | | |
| 3. Spike Recovery | X | | |
| 4. Duplicates | O | | |
| 5. LCS | O | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |

O = data had no problems
X = data qualified due to minor problems
M = data qualified due to major problems/some data may be unusable

OVERALL ASSESSSMENT: no major problems - all results acceptable w/ attached qualifiers

NOTES: See CLP report for TAL results, CASE NARRATIVE etc. disregard all other results reported in this package

o Refer to the corresponding attachments for explanation of any problems.

9713512.1454

RCRA LEVEL C QC

Name JA Lerch Date 11/9/91

QC Check: Holding time

COMMENTS: - 6 mo Holding time met for all samples

ACTION: none

| sample # | constituent | value/qual | sample # | constituent | value/qual |
|---|---|---|---|---|---|

9713512.1455

RCRA LEVEL C QC

Name JA Lerch Date 11/9/91

QC Check: Blanks

COMMENTS: -all method blanks free of contamination

ACTION: none

| sample # | constituent | value/qual | sample # | constituent | value/qual |
|---|---|---|---|---|---|

9713512.1456

RCRA LEVEL C QC

Name JA Lerch Date 11/9/91

QC Check: Spike Recovery

COMMENTS: B00F48 - Bi, Sr, Sn MS % Recovery ok; Bi MSD recovery low
-all Sr, Sn LCS spike + spike dup recoveries ok

ACTION: qualify associated results as per DSM guidelines

| sample # | constituent | value/qual | sample # | constituent | value/qual |
|---|---|---|---|---|---|
| all | Bi | UJ | | | |

9713512.1457

RCRA LEVEL C QC

Name JA Lerch Date 11/9/91

QC Check: Duplicates

COMMENTS: B00F48 - Bi, Sn, Sr replicate %D results ok
- all Sn, Sr, LCS spike + spike dup %D ok

ACTION: none

| sample # | constituent | value/qual | sample # | constituent | value/qual |
|---|---|---|---|---|---|

9713512.1458

RCRA LEVEL C QC

Name JA Larch Date 11/9/91

QC Check: LCS

COMMENTS: - all Bi, Sn, Sr LCS recoveries ok

ACTION: none

| sample # | constituent | value/qual | sample # | constituent | value/qual |
|---|---|---|---|---|---|

9713512.1459

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ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 05/22/91

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

WESTON BATCH #: 9103L787

| SAMPLE | SITE ID | ANALYTE | RESULT | | UNITS | REPORTING LIMIT |
|---|---|---|---|---|---|---|
| -001 | BOOF12 | 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 |
| | | Boron, Total | 100 | u | UG/L | 100 |
| | | Barium, Total | 200 | u | UG/L | 200 |
| | | Beryllium, Total | 5.0 | u | UG/L | 5.0 |
| | | Bismuth, Total | 150 | uJ | UG/L | 150 |
| | | Calcium, Total | 31800 | | UG/L | 5000 |
| | | Cadmium, Total | 5.0 | u | UG/L | 5.0 |
| | | Cobalt, Total | 50.0 | u | UG/L | 50.0 |
| | | Chromium, Total | 80.3 | | UG/L | 10.0 |
| | | Copper, Total | 25.0 | u | UG/L | 25.0 |
| | | Iron, Total | 1900 | | UG/L | 100 |
| | | Mercury, Total | 0.20 | u | UG/L | 0.20 |
| | | Potassium, Total | 5610 | | UG/L | 5000 |
| | | Magnesium, Total | 10200 | | UG/L | 5000 |
| | | Manganese, Total | 33.1 | | UG/L | 15.0 |
| | | Sodium, Total | 11900 | | UG/L | 5000 |
| | | Nickel, Total | 40.5 | | 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 |
| | | Tin, Total | 100 | u | UG/L | 100 |
| | | Strontium, Total | 246 | | UG/L | 100 |
| | | 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 |

JS 11/9/91

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ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 05/22/91

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

WESTON BATCH #: 9103L787

| SAMPLE | SITE ID | ANALYTE | RESULT | | UNITS | REPORTING LIMIT |
|---|---|---|---|---|---|---|
| -002 | BOOF13 | Silver, Soluble | 10.0 | u | UG/L | 10.0 |
| | | Aluminum, Soluble | 200 | u | UG/L | 200 |
| | | Arsenic, Soluble | 10.0 | u | UG/L | 10.0 |
| | | Boron, Soluble | 100 | u | UG/L | 100 |
| | | Barium, Soluble | 200 | u | UG/L | 200 |
| | | Beryllium, Soluble | 5.0 | u | UG/L | 5.0 |
| | | Bismuth, Soluble | 150 | uJ | UG/L | 150 |
| | | Calcium, Soluble | 30500 | | UG/L | 5000 |
| | | Cadmium, Soluble | 5.0 | u | UG/L | 5.0 |
| | | Cobalt, Soluble | 50.0 | u | UG/L | 50.0 |
| | | Chromium, Soluble | 20.8 | | UG/L | 10.0 |
| | | Copper, Soluble | 25.0 | u | UG/L | 25.0 |
| | | Iron, Soluble | 1180 | | UG/L | 100 |
| | | Mercury, Soluble | 0.20 | u | UG/L | 0.20 |
| | | Potassium, Soluble | 5890 | | UG/L | 5000 |
| | | Magnesium, Soluble | 9740 | | UG/L | 5000 |
| | | Manganese, Soluble | 20.2 | | UG/L | 15.0 |
| | | Sodium, Soluble | 11200 | | UG/L | 5000 |
| | | Nickel, Soluble | 40.0 | u | UG/L | 40.0 |
| | | Lead, Soluble | 3.0 | u | UG/L | 3.0 |
| | | Antimony, Soluble | 60.0 | u | UG/L | 60.0 |
| | | Selenium, Soluble | 5.0 | u | UG/L | 5.0 |
| | | Tin, Soluble | 100 | u | UG/L | 100 |
| | | Strontium, Soluble | 234 | | UG/L | 100 |
| | | Thallium, Soluble | 10.0 | u | UG/L | 10.0 |
| | | Vanadium, Soluble | 50.0 | u | UG/L | 50.0 |
| | | Zinc, Soluble | 20.0 | u | UG/L | 20.0 |

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ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 05/22/91

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

WESTON BATCH #: 9103L787

| SAMPLE | SITE ID | ANALYTE | RESULT | | UNITS | REPORTING LIMIT |
|---|---|---|---|---|---|---|
| -003 | BOOF34 | 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 |
| | | Boron, Total | 100 | u | UG/L | 100 |
| | | Barium, Total | 200 | u | UG/L | 200 |
| | | Beryllium, Total | 5.0 | u | UG/L | 5.0 |
| | | Bismuth, Total | 150 | uJ | UG/L | 150 |
| | | Calcium, Total | 52000 | | UG/L | 5000 |
| | | Cadmium, Total | 5.0 | u | UG/L | 5.0 |
| | | Cobalt, Total | 50.0 | u | UG/L | 50.0 |
| | | Chromium, Total | 104 | | UG/L | 10.0 |
| | | Copper, Total | 25.0 | u | UG/L | 25.0 |
| | | Iron, Total | 462 | | UG/L | 100 |
| | | Mercury, Total | 0.20 | u | UG/L | 0.20 |
| | | Potassium, Total | 7480 | | UG/L | 5000 |
| | | Magnesium, Total | 15400 | | UG/L | 5000 |
| | | Manganese, Total | 15.0 | u | UG/L | 15.0 |
| | | Sodium, Total | 31300 | | UG/L | 5000 |
| | | Nickel, Total | 75.1 | | 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 | | UG/L | 5.0 |
| | | Tin, Total | 100 | u | UG/L | 100 |
| | | Strontium, Total | 257 | | UG/L | 100 |
| | | 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 |

11/9/91

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ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 05/22/91

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

WESTON BATCH #: 9103L787

| SAMPLE | SITE ID | ANALYTE | RESULT | | UNITS | REPORTING LIMIT |
|---|---|---|---|---|---|---|
| -004 | BOOF35 | Silver, Soluble | 10.0 | u | UG/L | 10.0 |
| | | Aluminum, Soluble | 200 | u | UG/L | 200 |
| | | Arsenic, Soluble | 10.0 | u | UG/L | 10.0 |
| | | Boron, Soluble | 100 | u | UG/L | 100 |
| | | Barium, Soluble | 200 | u | UG/L | 200 |
| | | Beryllium, Soluble | 5.0 | u | UG/L | 5.0 |
| | | Bismuth, Soluble | 150 | uJ | UG/L | 150 |
| | | Calcium, Soluble | 53600 | | UG/L | 5000 |
| | | Cadmium, Soluble | 5.0 | u | UG/L | 5.0 |
| | | Cobalt, Soluble | 50.0 | u | UG/L | 50.0 |
| | | Chromium, Soluble | 10.0 | u | UG/L | 10.0 |
| | | Copper, Soluble | 25.0 | u | UG/L | 25.0 |
| | | Iron, Soluble | 100 | u | UG/L | 100 |
| | | Mercury, Soluble | 0.20 | u | UG/L | 0.20 |
| | | Potassium, Soluble | 8120 | | UG/L | 5000 |
| | | Magnesium, Soluble | 15800 | | UG/L | 5000 |
| | | Manganese, Soluble | 15.0 | u | UG/L | 15.0 |
| | | Sodium, Soluble | 32300 | | UG/L | 5000 |
| | | Nickel, Soluble | 40.0 | u | UG/L | 40.0 |
| | | Lead, Soluble | 3.0 | u | UG/L | 3.0 |
| | | Antimony, Soluble | 60.0 | u | UG/L | 60.0 |
| | | Selenium, Soluble | 7.3 | | UG/L | 5.0 |
| | | Tin, Soluble | 100 | u | UG/L | 100 |
| | | Strontium, Soluble | 264 | | UG/L | 100 |
| | | Thallium, Soluble | 10.0 | u | UG/L | 10.0 |
| | | Vanadium, Soluble | 50.0 | u | UG/L | 50.0 |
| | | Zinc, Soluble | 20.0 | u | UG/L | 20.0 |

11/9/91

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ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 05/22/91

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

WESTON BATCH #: 9103L787

| SAMPLE | SITE ID | ANALYTE | RESULT | | UNITS | REPORTING LIMIT |
|---|---|---|---|---|---|---|
| -005 | BOOF31 | 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 |
| | | Boron, Total | 100 | u | UG/L | 100 |
| | | Barium, Total | 200 | u | UG/L | 200 |
| | | Beryllium, Total | 5.0 | u | UG/L | 5.0 |
| | | Bismuth, Total | 150 | uJ | UG/L | 150 |
| | | Calcium, Total | 46400 | | UG/L | 5000 |
| | | Cadmium, Total | 5.0 | u | UG/L | 5.0 |
| | | Cobalt, Total | 50.0 | u | UG/L | 50.0 |
| | | Chromium, Total | 98.7 | | UG/L | 10.0 |
| | | Copper, Total | 25.0 | u | UG/L | 25.0 |
| | | Iron, Total | 503 | | UG/L | 100 |
| | | Mercury, Total | 0.20 | u | UG/L | 0.20 |
| | | Potassium, Total | 6860 | | UG/L | 5000 |
| | | Magnesium, Total | 13400 | | UG/L | 5000 |
| | | Manganese, Total | 15.0 | u | UG/L | 15.0 |
| | | Sodium, Total | 25600 | | UG/L | 5000 |
| | | Nickel, Total | 53.6 | | UG/L | 40.0 |
| | | Lead, Total | 3.0 | u | UG/L | 3.0 |
| | | Antimony, Total | 60.0 | u | UG/L | 60.0 |
| | | Selenium, Total | 5.8 | | UG/L | 5.0 |
| | | Tin, Total | 100 | u | UG/L | 100 |
| | | Strontium, Total | 226 | | UG/L | 100 |
| | | 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 |

11/9/91

9213512.1464

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ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 05/22/91

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

WESTON BATCH #: 9103L787

| SAMPLE | SITE ID | ANALYTE | RESULT | | UNITS | REPORTING LIMIT |
|---|---|---|---|---|---|---|
| -006 | BOOF32 | Silver, Soluble | 10.0 | u | UG/L | 10.0 |
| | | Aluminum, Soluble | 200 | u | UG/L | 200 |
| | | Arsenic, Soluble | 10.0 | u | UG/L | 10.0 |
| | | Boron, Soluble | 100 | u | UG/L | 100 |
| | | Barium, Soluble | 200 | u | UG/L | 200 |
| | | Beryllium, Soluble | 5.0 | u | UG/L | 5.0 |
| | | Bismuth, Soluble | 150 | uJ | UG/L | 150 |
| | | Calcium, Soluble | 49000 | | UG/L | 5000 |
| | | Cadmium, Soluble | 5.0 | u | UG/L | 5.0 |
| | | Cobalt, Soluble | 50.0 | u | UG/L | 50.0 |
| | | Chromium, Soluble | 10.0 | u | UG/L | 10.0 |
| | | Copper, Soluble | 25.0 | u | UG/L | 25.0 |
| | | Iron, Soluble | 100 | u | UG/L | 100 |
| | | Mercury, Soluble | 0.20 | u | UG/L | 0.20 |
| | | Potassium, Soluble | 7840 | | UG/L | 5000 |
| | | Magnesium, Soluble | 14100 | | UG/L | 5000 |
| | | Manganese, Soluble | 15.0 | u | UG/L | 15.0 |
| | | Sodium, Soluble | 26900 | | UG/L | 5000 |
| | | Nickel, Soluble | 40.0 | u | UG/L | 40.0 |
| | | Lead, Soluble | 3.0 | u | UG/L | 3.0 |
| | | Antimony, Soluble | 60.0 | u | UG/L | 60.0 |
| | | Selenium, Soluble | 5.0 | | UG/L | 5.0 |
| | | Tin, Soluble | 100 | u | UG/L | 100 |
| | | Strontium, Soluble | 238 | | UG/L | 100 |
| | | Thallium, Soluble | 10.0 | u | UG/L | 10.0 |
| | | Vanadium, Soluble | 50.0 | u | UG/L | 50.0 |
| | | Zinc, Soluble | 20.0 | u | UG/L | 20.0 |

11/9/91

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ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 05/22/91

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

WESTON BATCH #: 9103L787

| SAMPLE | SITE ID | ANALYTE | RESULT | | UNITS | REPORTING LIMIT |
|---|---|---|---|---|---|---|
| -008 | BOOF09 | 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 |
| | | Boron, Total | 100 | u | UG/L | 100 |
| | | Barium, Total | 200 | u | UG/L | 200 |
| | | Beryllium, Total | 5.0 | u | UG/L | 5.0 |
| | | Bismuth, Total | 150 | uJ | UG/L | 150 |
| | | Calcium, Total | 58200 | | UG/L | 5000 |
| | | Cadmium, Total | 5.0 | u | UG/L | 5.0 |
| | | Cobalt, Total | 50.0 | u | UG/L | 50.0 |
| | | Chromium, Total | 112 | | UG/L | 10.0 |
| | | Copper, Total | 25.0 | u | UG/L | 25.0 |
| | | Iron, Total | 729 | | UG/L | 100 |
| | | Mercury, Total | 0.20 | u | UG/L | 0.20 |
| | | Potassium, Total | 8870 | | UG/L | 5000 |
| | | Magnesium, Total | 16800 | | UG/L | 5000 |
| | | Manganese, Total | 26.3 | | UG/L | 15.0 |
| | | Sodium, Total | 38100 | | UG/L | 5000 |
| | | Nickel, Total | 55.0 | | 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 |
| | | Tin, Total | 100 | u | UG/L | 100 |
| | | Strontium, Total | 296 | | UG/L | 100 |
| | | 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 |

11/9/91

9713512.1466

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ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 05/22/91

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

WESTON BATCH #: 9103L787

| SAMPLE | SITE ID | ANALYTE | RESULT | | UNITS | REPORTING LIMIT |
|---|---|---|---|---|---|---|
| -009 | BOOF10 | Silver, Soluble | 10.0 | u | UG/L | 10.0 |
| | | Aluminum, Soluble | 200 | u | UG/L | 200 |
| | | Arsenic, Soluble | 10.0 | u | UG/L | 10.0 |
| | | Boron, Soluble | 100 | u | UG/L | 100 |
| | | Barium, Soluble | 200 | u | UG/L | 200 |
| | | Beryllium, Soluble | 5.0 | u | UG/L | 5.0 |
| | | Bismuth, Soluble | 150 | uJ | UG/L | 150 |
| | | Calcium, Soluble | 59600 | | UG/L | 5000 |
| | | Cadmium, Soluble | 5.0 | u | UG/L | 5.0 |
| | | Cobalt, Soluble | 50.0 | u | UG/L | 50.0 |
| | | Chromium, Soluble | 10.0 | u | UG/L | 10.0 |
| | | Copper, Soluble | 25.0 | u | UG/L | 25.0 |
| | | Iron, Soluble | 115 | | UG/L | 100 |
| | | Mercury, Soluble | 0.20 | u | UG/L | 0.20 |
| | | Potassium, Soluble | 9580 | | UG/L | 5000 |
| | | Magnesium, Soluble | 17200 | | UG/L | 5000 |
| | | Manganese, Soluble | 15.0 | u | UG/L | 15.0 |
| | | Sodium, Soluble | 39200 | | UG/L | 5000 |
| | | Nickel, Soluble | 40.0 | u | UG/L | 40.0 |
| | | Lead, Soluble | 3.0 | u | UG/L | 3.0 |
| | | Antimony, Soluble | 60.0 | u | UG/L | 60.0 |
| | | Selenium, Soluble | 5.0 | u | UG/L | 5.0 |
| | | Tin, Soluble | 100 | u | UG/L | 100 |
| | | Strontium, Soluble | 305 | | UG/L | 100 |
| | | Thallium, Soluble | 10.0 | u | UG/L | 10.0 |
| | | Vanadium, Soluble | 50.0 | u | UG/L | 50.0 |
| | | Zinc, Soluble | 20.0 | u | UG/L | 20.0 |

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ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 05/22/91

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

WESTON BATCH #: 9103L787

| SAMPLE | SITE ID | ANALYTE | RESULT | | UNITS | REPORTING LIMIT |
|---|---|---|---|---|---|---|
| -010 | BOOF19 | 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 |
| | | Boron, Total | 100 | u | UG/L | 100 |
| | | Barium, Total | 200 | u | UG/L | 200 |
| | | Beryllium, Total | 5.0 | u | UG/L | 5.0 |
| | | Bismuth, Total | 150 | uJ | UG/L | 150 |
| | | Calcium, Total | 57400 | | UG/L | 5000 |
| | | Cadmium, Total | 5.0 | u | UG/L | 5.0 |
| | | Cobalt, Total | 50.0 | u | UG/L | 50.0 |
| | | Chromium, Total | 86.1 | | UG/L | 10.0 |
| | | Copper, Total | 25.0 | u | UG/L | 25.0 |
| | | Iron, Total | 1380 | | UG/L | 100 |
| | | Mercury, Total | 0.20 | u | UG/L | 0.20 |
| | | Potassium, Total | 7050 | | UG/L | 5000 |
| | | Magnesium, Total | 16800 | | UG/L | 5000 |
| | | Manganese, Total | 15.0 | u | UG/L | 15.0 |
| | | Sodium, Total | 24000 | | UG/L | 5000 |
| | | Nickel, Total | 48.2 | | 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 |
| | | Tin, Total | 100 | u | UG/L | 100 |
| | | Strontium, Total | 289 | | UG/L | 100 |
| | | 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 |

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ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 05/22/91

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

WESTON BATCH #: 9103L787

| SAMPLE | SITE ID | ANALYTE | RESULT | | UNITS | REPORTING LIMIT |
|---|---|---|---|---|---|---|
| -011 | BOOF20 | Silver, Soluble | 10.0 | u | UG/L | 10.0 |
| | | Aluminum, Soluble | 200 | u | UG/L | 200 |
| | | Arsenic, Soluble | 10.0 | u | UG/L | 10.0 |
| | | Boron, Soluble | 100 | u | UG/L | 100 |
| | | Barium, Soluble | 200 | u | UG/L | 200 |
| | | Beryllium, Soluble | 5.0 | u | UG/L | 5.0 |
| | | Bismuth, Soluble | 150 | uJ | UG/L | 150 |
| | | Calcium, Soluble | 55900 | | UG/L | 5000 |
| | | Cadmium, Soluble | 5.0 | u | UG/L | 5.0 |
| | | Cobalt, Soluble | 50.0 | u | UG/L | 50.0 |
| | | Chromium, Soluble | 10.0 | u | UG/L | 10.0 |
| | | Copper, Soluble | 25.0 | u | UG/L | 25.0 |
| | | Iron, Soluble | 100 | u | UG/L | 100 |
| | | Mercury, Soluble | 0.20 | u | UG/L | 0.20 |
| | | Potassium, Soluble | 6580 | | UG/L | 5000 |
| | | Magnesium, Soluble | 16400 | | UG/L | 5000 |
| | | Manganese, Soluble | 15.0 | u | UG/L | 15.0 |
| | | Sodium, Soluble | 23500 | | UG/L | 5000 |
| | | Nickel, Soluble | 40.0 | u | UG/L | 40.0 |
| | | Lead, Soluble | 3.0 | u | UG/L | 3.0 |
| | | Antimony, Soluble | 60.0 | u | UG/L | 60.0 |
| | | Selenium, Soluble | 5.0 | u | UG/L | 5.0 |
| | | Tin, Soluble | 100 | u | UG/L | 100 |
| | | Strontium, Soluble | 283 | | UG/L | 100 |
| | | Thallium, Soluble | 10.0 | u | UG/L | 10.0 |
| | | Vanadium, Soluble | 50.0 | u | UG/L | 50.0 |
| | | Zinc, Soluble | 20.0 | u | UG/L | 20.0 |

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ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 05/22/91

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

WESTON BATCH }: 9103L787

| SAMPLE | SITE ID | ANALYTE | RESULT | | UNITS | REPORTING LIMIT |
|---|---|---|---|---|---|---|
| -013 | BOOF28 | 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 |
| | | Boron, Total | 100 | u | UG/L | 100 |
| | | Barium, Total | 200 | u | UG/L | 200 |
| | | Beryllium, Total | 5.0 | u | UG/L | 5.0 |
| | | Bismuth, Total | 150 | uJ | UG/L | 150 |
| | | Calcium, Total | 50500 | | UG/L | 5000 |
| | | Cadmium, Total | 5.0 | u | UG/L | 5.0 |
| | | Cobalt, Total | 50.0 | u | UG/L | 50.0 |
| | | Chromium, Total | 67.3 | | UG/L | 10.0 |
| | | Copper, Total | 25.0 | u | UG/L | 25.0 |
| | | Iron, Total | 1440 | | UG/L | 100 |
| | | Mercury, Total | 0.20 | u | UG/L | 0.2( |
| | | Potassium, Total | 7710 | | UG/L | 5000 |
| | | Magnesium, Total | 14700 | | UG/L | 5000 |
| | | Manganese, Total | 37.8 | | UG/L | 15.0 |
| | | Sodium, Total | 27000 | | 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 |
| | | Tin, Total | 100 | u | UG/L | 100 |
| | | Strontium, Total | 256 | | UG/L | 100 |
| | | 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 |

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ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 05/22/91

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

WESTON BATCH #: 9103L787

| SAMPLE | SITE ID | ANALYTE | RESULT | | UNITS | REPORTING LIMIT |
|---|---|---|---|---|---|---|
| -014 | BOOF29 | Silver, Soluble | 10.0 | u | UG/L | 10.0 |
| | | Aluminum, Soluble | 200 | u | UG/L | 200 |
| | | Arsenic, Soluble | 10.0 | u | UG/L | 10.0 |
| | | Boron, Soluble | 100 | u | UG/L | 100 |
| | | Barium, Soluble | 200 | u | UG/L | 200 |
| | | Beryllium, Soluble | 5.0 | u | UG/L | 5.0 |
| | | Bismuth, Soluble | 150 | uJ | UG/L | 150 |
| | | Calcium, Soluble | 48700 | | UG/L | 5000 |
| | | Cadmium, Soluble | 5.0 | u | UG/L | 5.0 |
| | | Cobalt, Soluble | 50.0 | u | UG/L | 50.0 |
| | | Chromium, Soluble | 10.0 | u | UG/L | 10.0 |
| | | Copper, Soluble | 25.0 | u | UG/L | 25.0 |
| | | Iron, Soluble | 100 | u | UG/L | 100 |
| | | Mercury, Soluble | 0.20 | u | UG/L | 0.20 |
| | | Potassium, Soluble | 7330 | | UG/L | 5000 |
| | | Magnesium, Soluble | 14200 | | UG/L | 5000 |
| | | Manganese, Soluble | 19.8 | | UG/L | 15.0 |
| | | Sodium, Soluble | 25900 | | UG/L | 5000 |
| | | Nickel, Soluble | 40.0 | u | UG/L | 40.0 |
| | | Lead, Soluble | 3.0 | u | UG/L | 3.0 |
| | | Antimony, Soluble | 60.0 | u | UG/L | 60.0 |
| | | Selenium, Soluble | 5.0 | u | UG/L | 5.0 |
| | | Tin, Soluble | 100 | u | UG/L | 100 |
| | | Strontium, Soluble | 248 | | UG/L | 100 |
| | | Thallium, Soluble | 10.0 | u | UG/L | 10.0 |
| | | Vanadium, Soluble | 50.0 | u | UG/L | 50.0 |
| | | Zinc, Soluble | 20.0 | u | UG/L | 20.0 |

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ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 05/22/91

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

WESTON BATCH #: 9103L815

| SAMPLE | SITE ID | ANALYTE | RESULT | | UNITS | REPORTING LIMIT |
|---|---|---|---|---|---|---|
| -001 | B00F44 | 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 | uJ | UG/L | 150 |
| | | Calcium, Total | 31300 | | UG/L | 5000 |
| | | Cadmium, Total | 5.0 | u | UG/L | 5.0 |
| | | Cobalt, Total | 50.0 | u | UG/L | 50.0 |
| | | Chromium, Total | 56.0 | | UG/L | 10.0 |
| | | Copper, Total | 25.0 | u | UG/L | 25.0 |
| | | Iron, Total | 231 | | UG/L | 100 |
| | | Mercury, Total | 0.20 | u | UG/L | 0.20 |
| | | Potassium, Total | 5570 | | UG/L | 5000 |
| | | Magnesium, Total | 10100 | | UG/L | 5000 |
| | | Manganese, Total | 15.0 | u | UG/L | 15.0 |
| | | Sodium, Total | 23000 | | 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 |
| | | Tin, Total | 100 | u | UG/L | 100 |
| | | Strontium, Total | 164 | | UG/L | 100 |
| | | 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 |

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ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 05/22/91

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

WESTON BATCH #: 9103L815

| SAMPLE | SITE ID | ANALYTE | RESULT | | UNITS | REPORTING LIMIT |
|---|---|---|---|---|---|---|
| -002 | B00F45 | Silver, Soluble | 10.0 | u | UG/L | 10.0 |
| | | Aluminum, Soluble | 200 | u | UG/L | 200 |
| | | Arsenic, Soluble | 10.0 | u | UG/L | 10.0 |
| | | Barium, Soluble | 200 | u | UG/L | 200 |
| | | Beryllium, Soluble | 5.0 | u | UG/L | 5.0 |
| | | Bismuth, Soluble | 150 | uJ | UG/L | 150 |
| | | Calcium, Soluble | 32700 | | UG/L | 5000 |
| | | Cadmium, Soluble | 5.0 | u | UG/L | 5.0 |
| | | Cobalt, Soluble | 50.0 | u | UG/L | 50.0 |
| | | Chromium, Soluble | 10.0 | u | UG/L | 10.0 |
| | | Copper, Soluble | 25.0 | u | UG/L | 25.0 |
| | | Iron, Soluble | 100 | u | UG/L | 100 |
| | | Mercury, Soluble | 0.20 | u | UG/L | 0.20 |
| | | Potassium, Soluble | 5230 | | UG/L | 5000 |
| | | Magnesium, Soluble | 10500 | | UG/L | 5000 |
| | | Manganese, Soluble | 15.0 | u | UG/L | 15.0 |
| | | Sodium, Soluble | 24000 | | UG/L | 5000 |
| | | Nickel, Soluble | 40.0 | u | UG/L | 40.0 |
| | | Lead, Soluble | 4.4 | | UG/L | 3.0 |
| | | Antimony, Soluble | 60.0 | u | UG/L | 60.0 |
| | | Selenium, Soluble | 5.0 | u | UG/L | 5.0 |
| | | Tin, Soluble | 100 | u | UG/L | 100 |
| | | Strontium, Soluble | 172 | | UG/L | 100 |
| | | Thallium, Soluble | 10.0 | u | UG/L | 10.0 |
| | | Vanadium, Soluble | 50.0 | u | UG/L | 50.0 |
| | | Zinc, Soluble | 20.0 | u | UG/L | 20.0 |

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ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 05/22/91

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

WESTON BATCH #: 9103L815

| SAMPLE | SITE ID | ANALYTE | RESULT | | UNITS | REPORTING LIMIT |
|---|---|---|---|---|---|---|
| -003 | B00F47 | 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 | uJ | UG/L | 150 |
| | | Calcium, Total | 31300 | | UG/L | 5000 |
| | | Cadmium, Total | 5.0 | u | UG/L | 5.0 |
| | | Cobalt, Total | 50.0 | u | UG/L | 50.0 |
| | | Chromium, Total | 30.3 | | UG/L | 10.0 |
| | | Copper, Total | 25.0 | u | UG/L | 25.0 |
| | | Iron, Total | 144 | | UG/L | 100 |
| | | Mercury, Total | 0.20 | u | UG/L | 0.20 |
| | | Potassium, Total | 5000 | u | UG/L | 5000 |
| | | Magnesium, Total | 9730 | | UG/L | 5000 |
| | | Manganese, Total | 15.0 | u | UG/L | 15.0 |
| | | Sodium, Total | 18200 | | 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 |
| | | Tin, Total | 100 | u | UG/L | 100 |
| | | Strontium, Total | 163 | | UG/L | 100 |
| | | 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 |

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ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 05/22/91

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

WESTON BATCH #: 9103L815

| SAMPLE | SITE ID | ANALYTE | RESULT | | UNITS | REPORTING LIMIT |
|---|---|---|---|---|---|---|
| -004 | B00F48 | Silver, Soluble | 10.0 | u | UG/L | 10.0 |
| | | Aluminum, Soluble | 200 | u | UG/L | 200 |
| | | Arsenic, Soluble | 10.0 | u | UG/L | 10.0 |
| | | Barium, Soluble | 200 | u | UG/L | 200 |
| | | Beryllium, Soluble | 5.0 | u | UG/L | 5.0 |
| | | Bismuth, Soluble | 150 | uJ | UG/L | 150 |
| | | Calcium, Soluble | 30300 | | UG/L | 5000 |
| | | Cadmium, Soluble | 5.0 | u | UG/L | 5.0 |
| | | Cobalt, Soluble | 50.0 | u | UG/L | 50.0 |
| | | Chromium, Soluble | 10.0 | u | UG/L | 10.0 |
| | | Copper, Soluble | 25.0 | u | UG/L | 25.0 |
| | | Iron, Soluble | 100 | u | UG/L | 100 |
| | | Mercury, Soluble | 0.20 | u | UG/L | 0.20 |
| | | Potassium, Soluble | 5450 | | UG/L | 5000 |
| | | Magnesium, Soluble | 9360 | | UG/L | 5000 |
| | | Manganese, Soluble | 15.0 | u | UG/L | 15.0 |
| | | Sodium, Soluble | 17100 | | UG/L | 5000 |
| | | Nickel, Soluble | 40.0 | u | UG/L | 40.0 |
| | | Lead, Soluble | 3.0 | u | UG/L | 3.0 |
| | | Antimony, Soluble | 60.0 | u | UG/L | 60.0 |
| | | Selenium, Soluble | 5.0 | u | UG/L | 5.0 |
| | | Tin, Soluble | 100 | u | UG/L | 100 |
| | | Strontium, Soluble | 158 | | UG/L | 100 |
| | | Thallium, Soluble | 10.0 | u | UG/L | 10.0 |
| | | Vanadium, Soluble | 50.0 | u | UG/L | 50.0 |
| | | Zinc, Soluble | 20.0 | u | UG/L | 20.0 |

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# OSM INORGANIC DATA ASSESSMENT

DATE 10/9/91

REVIEWED BY JA Lerch

LABORATORY Weston

~~CASE~~ RFW # 91031L787 also includes 91031L813

SDG # N/A

SAMPLES/MATRIX B00F12 B00F32 B00F28 B00F48
B00F13 B00F09 B00F29
B00F34 B00F10 B00F44
B00F35 B00F19 B00F45
B00F31 B00F20 B00F47
all water

## DATA ASSESSMENT SUMMARY

| | ICP | AA | Hg | CN |
|---|---|---|---|---|
| 1. Calibrations (Form II) | O | O | O | O |
| 2. Blanks (III) | X | O | O | O |
| 3. ICS (IV) | X | | | |
| 4. Matrix Spike (V) | O | X | O | O |
| 5. Duplicate Analysis (VI) | O | O | O | O |
| 6. LCS (VII) | O | O | | O |
| 7. Serial Dilution (IX) | O | | | |
| 8. GFAA | | X | | |
| 9. Holding Times (XIV) | O | O | O | O |
| 10. Other QC none | | | | |

O = data had no problems
X = data qualified due to minor problems
M = data qualified due to major problems/some data may be unusable

OVERALL ASSESSSMENT: no major problems - all results acceptable w/attached qualifiers

NOTES: none

o Refer to the corresponding attachments for explanation of any problems.

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INORGANIC QC - Calibrations

Name JA Lerch JL Date 10/9/91

COMMENTS: -all ICV + CCV recoveries within control limits
-analytical sequence reqs. met
- Hg, CN correlation coefficients ok

ACTION: none

| sample # | constituent | value/qual | sample # | constituent | value/qual |
|---|---|---|---|---|---|

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INORGANIC QC - ICS

Name JA Lerch Date 10/9/91

COMMENTS: - all ICS solution recoveries within limits
- false positives may exist for Sb, Mn.
- false negatives may exist for K, Na

ACTION: qualify associated results as per OSM guidelines

| sample # | constituent | value/qual | sample # | constituent | value/qual |
|---|---|---|---|---|---|
| all | Mn | J | | | |
| - with the following exception | | | | | |
| B00F45 | Mn | acceptable | | | |

INORGANIC QC - Matrix Spike

Name JA Lerch Date 10/9/91

COMMENTS: B00F12 – Hg recovery within limits
B00F28 – CN recovery within limits
B00F48 – all ICP recoveries ok; As recovery low, all other GFAA recoveries within limits

ACTION: qualify associated results as per OSM guidelines

| sample # | constituent | value/qual | sample # | constituent | value/qual |
|---|---|---|---|---|---|
| all | As | J | | | |
| - with the following exception | | | | | |
| B00F12 | As | UJ | | | |
| B00F13 | As | UJ | | | |

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# INORGANIC QC - Duplicate Analysis

Name JA Kerch Date 10/9/91

COMMENTS: B00F12 - Hg duplicate RPD N/A

B00F28 - CN dup. RPD N/A

B00F48 - all ICP + GFAA duplicate RPD's within limits where applicable

ACTION: none

| sample # | constituent | value/qual | sample # | constituent | value/qual |
|---|---|---|---|---|---|

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# INORGANIC QC - LCS

Name JA Lerch Date 10/9/91

COMMENTS: all Aqueous LCS recoveries within limits (Sb has no limits) solid LCS N/A

ACTION: none

| sample # | constituent | value/qual | sample # | constituent | value/qual |
|---|---|---|---|---|---|

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# INORGANIC QC - Serial Dilution

Name JA Lerch Date 10/9/91

COMMENTS: B00F48 - all serial dilution results within applicable limits

ACTION: none

| sample # | constituent | value/qual | sample # | constituent | value/qual |
|---|---|---|---|---|---|

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INORGANIC QC - Holding Times

Name JA Lerch Date 10/9/91

COMMENTS: all Holding times met

ACTION: none

| sample # | constituent | value/qual | sample # | constituent | value/qual |
|---|---|---|---|---|---|

# INORGANIC QC - GFAA

Name JA Lerch Date 10/9/91

COMMENTS: MSA performed for Se on several samples; all correlation coefficients > .995
-all sequence reqs met; some analytical spikes outside limits for As, Pb, Se, Tl (see below)

ACTION: qualify associated results as per QSM guidelines

| sample # | constituent | value/qual |
|---|---|---|
| B00F12 | Pb | UJ |
| | Se | J |
| | Tl | UJ |
| B00F13 | Pb | UJ |
| | Se | J |
| | Tl | UJ |
| B00F34 | As | J |
| | Pb | UJ |
| | Tl | UJ |
| B00F35 | As | J |
| | Pb | UJ |
| | Tl | UJ |
| B00F31 | As | J |
| | Pb | UJ |
| | Tl | UJ |
| B00F32 | As | J |
| | Pb | UJ |
| | Tl | UJ |
| B00F09 | As | J |
| | Pb | UJ |
| | Se | J |
| | Tl | UJ |
| B00F10 | As | J |
| | Pb | UJ |
| | Se | J |
| | Tl | UJ |
| B00F19 | As | J |
| | Pb | UJ |
| | Se | J |
| | Tl | UJ |
| B00F20 | As | J |
| | Pb | UJ |
| | Se | J |
| | Tl | UJ |
| B00F28 | As | J |
| | Pb | UJ |
| | Se | J |
| | Tl | UJ |
| B00F29 | As | J |
| | Pb | UJ |
| | Se | J |
| | Tl | UJ |
| B00F44 | Pb | UJ |
| | Se | UJ |
| | Tl | UJ |
| B00F45 | Pb | J |
| | Tl | UJ |
| B00F47 | Se | UJ |
| | Tl | UJ |
| B00F48 | Pb | UJ |
| | Se | UJ |
| | Tl | UJ |

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INORGANIC QC - other

Name JA Lerch Date 10/9/91

COMMENTS: none

ACTION:

| sample # | constituent | value/qual | sample # | constituent | value/qual |
|---|---|---|---|---|---|

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U.S. EPA - CLP 0000039

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOF12

Lab Name:Roy F. Weston, Inc. Contract:6168-02-01

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP787

Matrix (soil/water):WATER Lab Sample ID:9103787001

Level (low/med): LOW Date Received:03/02/91

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 102 | B | | P |
| 7440-36-0 | Antimony | 21.7 | B | U | P |
| 7440-38-2 | Arsenic | 2.00 | U | | F |
| 7440-39-3 | Barium | 87.5 | B | | P |
| 7440-41-7 | Beryllium | 1.00 | U | | P |
| 7440-43-9 | Cadmium | 4.00 | U | | P |
| 7440-70-2 | Calcium | 31800 | | | P |
| 7440-47-3 | Chromium | 80.3 | | | P |
| 7440-48-4 | Cobalt | 4.00 | U | | P |
| 7440-50-8 | Copper | 7.00 | U | | P |
| 7439-89-6 | Iron | 1900 | | | P |
| 7439-92-1 | Lead | 2.00 | B | W UJ | F |
| 7439-95-4 | Magnesium | 10200 | | | P |
| 7439-96-5 | Manganese | 33.1 | J | | P |
| 7439-97-6 | Mercury | 0.200 | U | | CV |
| 7440-02-0 | Nickel | 40.5 | | | P |
| 7440-09-7 | Potassium | 5610 | | | P |
| 7782-49-2 | Selenium | 1.20 | B | W J | F |
| 7440-22-4 | Silver | 4.00 | U | | P |
| 7440-23-5 | Sodium | 11900 | | | P |
| 7440-28-0 | Thallium | 5.00 | B | W UJ | F |
| 7440-62-2 | Vanadium | 20.0 | B | U | P |
| 7440-66-6 | Zinc | 11.6 | B | | P |
| | Cyanide | 5.00 | U | | C |

10/9/91

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

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U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOF13

Lab Name:Roy F. Weston, Inc. Contract:6168-02-01

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP787

Matrix (soil/water):WATER Lab Sample ID:9103787002

Level (low/med): LOW Date Received:03/02/91

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 110 | B | | P |
| 7440-36-0 | Antimony | 19.0 | U | | P |
| 7440-38-2 | Arsenic | 2.00 | UJ | | F |
| 7440-39-3 | Barium | 81.6 | B | | P |
| 7440-41-7 | Beryllium | 1.00 | U | | P |
| 7440-43-9 | Cadmium | 4.00 | U | | P |
| 7440-70-2 | Calcium | 30500 | | | P |
| 7440-47-3 | Chromium | 20.8 | | | P |
| 7440-48-4 | Cobalt | 4.00 | U | | P |
| 7440-50-8 | Copper | 7.00 | U | | P |
| 7439-89-6 | Iron | 1180 | | | P |
| 7439-92-1 | Lead | 2.00 | ~~U~~ | W UJ | F |
| 7439-95-4 | Magnesium | 9740 | | | P |
| 7439-96-5 | Manganese | 20.2 | J | | P |
| 7439-97-6 | Mercury | 0.200 | U | | CV |
| 7440-02-0 | Nickel | 16.2 | B | | P |
| 7440-09-7 | Potassium | 5890 | | | P |
| 7782-49-2 | Selenium | 1.00 | J | W | F |
| 7440-22-4 | Silver | 4.00 | U | | P |
| 7440-23-5 | Sodium | 11200 | | | P |
| 7440-28-0 | Thallium | 5.00 | ~~U~~ | W UJ | F |
| 7440-62-2 | Vanadium | 19.8 | ~~B~~ | UA | P |
| 7440-66-6 | Zinc | 8.20 | B | | P |
| | Cyanide | | | | |

JJ 10/9/91

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

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U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOF35

Lab Name:Roy F. Weston, Inc. Contract:6168-02-01

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP787

Matrix (soil/water):WATER Lab Sample ID:9103787004

Level (low/med): LOW Date Received:03/02/91

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 77.0 | U | | P |
| 7440-36-0 | Antimony | 19.0 | U | | P |
| 7440-38-2 | Arsenic | 5.10 | B | W J | F |
| 7440-39-3 | Barium | 28.5 | B | | P |
| 7440-41-7 | Beryllium | 1.00 | U | | P |
| 7440-43-9 | Cadmium | 4.00 | U | | P |
| 7440-70-2 | Calcium | 53600 | | | P |
| 7440-47-3 | Chromium | 5.10 | B | | P |
| 7440-48-4 | Cobalt | 4.00 | U | | P |
| 7440-50-8 | Copper | 7.00 | U | | P |
| 7439-89-6 | Iron | 83.2 | B | | P |
| 7439-92-1 | Lead | 2.00 | B | W UJ | F |
| 7439-95-4 | Magnesium | 15800 | | | P |
| 7439-96-5 | Manganese | 5.40 | B | J | P |
| 7439-97-6 | Mercury | 0.200 | U | | CV |
| 7440-02-0 | Nickel | 27.6 | B | | P |
| 7440-09-7 | Potassium | 8120 | | | P |
| 7782-49-2 | Selenium | 7.30 | | S | F |
| 7440-22-4 | Silver | 4.00 | U | | P |
| 7440-23-5 | Sodium | 32300 | | | P |
| 7440-28-0 | Thallium | 5.00 | B | W UJ | F |
| 7440-62-2 | Vanadium | 34.2 | B | U | P |
| 7440-66-6 | Zinc | 6.00 | B | | P |
| | Cyanide | | | | |

10/9/91

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

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U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOF31

Lab Name:Roy F. Weston, Inc. Contract:6168-02-01

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP787

Matrix (soil/water):WATER Lab Sample ID:9103787005

Level (low/med): LOW Date Received:03/02/91

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 77.0 | U | | P |
| 7440-36-0 | Antimony | 19.0 | U | | P |
| 7440-38-2 | Arsenic | 5.50 | B | W J | F |
| 7440-39-3 | Barium | 32.9 | B | | P |
| 7440-41-7 | Beryllium | 1.00 | U | | P |
| 7440-43-9 | Cadmium | 4.00 | U | | P |
| 7440-70-2 | Calcium | 46400 | | | P |
| 7440-47-3 | Chromium | 98.7 | | | P |
| 7440-48-4 | Cobalt | 4.00 | U | | P |
| 7440-50-8 | Copper | 7.00 | U | | P |
| 7439-89-6 | Iron | 503 | | | P |
| 7439-92-1 | Lead | 2.00 | U | W UJ | F |
| 7439-95-4 | Magnesium | 13400 | | | P |
| 7439-96-5 | Manganese | 10.2 | B | J | P |
| 7439-97-6 | Mercury | 0.200 | U | | CV |
| 7440-02-0 | Nickel | 53.6 | | | P |
| 7440-09-7 | Potassium | 6860 | | | P |
| 7782-49-2 | Selenium | 5.80 | | S | F |
| 7440-22-4 | Silver | 4.00 | U | | P |
| 7440-23-5 | Sodium | 25600 | | | P |
| 7440-28-0 | Thallium | 5.00 | U | W UJ | F |
| 7440-62-2 | Vanadium | 35.1 | B | U | P |
| 7440-66-6 | Zinc | 19.4 | B | | P |
| | Cyanide | 5.00 | U | | C |

10/9/91

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOF32

Lab Name:Roy F. Weston, Inc. Contract:6168-02-01

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP787

Matrix (soil/water):WATER Lab Sample ID:9103787006

Level (low/med): LOW Date Received:03/02/91

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 77.0 | U | | P |
| 7440-36-0 | Antimony | 19.0 | U | | P |
| 7440-38-2 | Arsenic | 5.30 | ~~B~~ | W J | F |
| 7440-39-3 | Barium | 33.9 | B | | P |
| 7440-41-7 | Beryllium | 1.00 | U | | P |
| 7440-43-9 | Cadmium | 4.00 | U | | P |
| 7440-70-2 | Calcium | 49000 | | | P |
| 7440-47-3 | Chromium | 7.00 | B | | P |
| 7440-48-4 | Cobalt | 4.00 | U | | P |
| 7440-50-8 | Copper | 7.00 | U | | P |
| 7439-89-6 | Iron | 46.2 | B | | P |
| 7439-92-1 | Lead | 2.00 | ~~B~~ | W UJ | F |
| 7439-95-4 | Magnesium | 14100 | | | P |
| 7439-96-5 | Manganese | 2.40 | ~~B~~ | J | P |
| 7439-97-6 | Mercury | 0.200 | U | | CV |
| 7440-02-0 | Nickel | 10.7 | B | | P |
| 7440-09-7 | Potassium | 7840 | | | P |
| 7782-49-2 | Selenium | 5.00 | | S | F |
| 7440-22-4 | Silver | 4.00 | U | | P |
| 7440-23-5 | Sodium | 26900 | | | P |
| 7440-28-0 | Thallium | 5.00 | ~~B~~ | W UJ | F |
| 7440-62-2 | Vanadium | 34.8 | ~~B~~ | U | P |
| 7440-66-6 | Zinc | 3.30 | B | | P |
| | Cyanide | | | | |
| | | | | | |

JJ 10/9/91

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOF09

Lab Name:Roy F. Weston, Inc. Contract:6168-02-01

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP787

Matrix (soil/water):WATER Lab Sample ID:9103787008

Level (low/med): LOW Date Received:03/02/91

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 77.0 | U | | P |
| 7440-36-0 | Antimony | 19.0 | U | | P |
| 7440-38-2 | Arsenic | 6.10 | B | W J | F |
| 7440-39-3 | Barium | 36.0 | B | | P |
| 7440-41-7 | Beryllium | 1.00 | U | | P |
| 7440-43-9 | Cadmium | 4.00 | U | | P |
| 7440-70-2 | Calcium | 58200 | | | P |
| 7440-47-3 | Chromium | 112 | | | P |
| 7440-48-4 | Cobalt | 4.00 | U | | P |
| 7440-50-8 | Copper | 7.40 | B | | P |
| 7439-89-6 | Iron | 729 | | | P |
| 7439-92-1 | Lead | 2.00 | U | W UJ | F |
| 7439-95-4 | Magnesium | 16800 | | | P |
| 7439-96-5 | Manganese | 26.3 | J | | P |
| 7439-97-6 | Mercury | 0.200 | U | | CV |
| 7440-02-0 | Nickel | 55.0 | | | P |
| 7440-09-7 | Potassium | 8870 | | | P |
| 7782-49-2 | Selenium | 2.40 | B | W J | F |
| 7440-22-4 | Silver | 4.00 | U | | P |
| 7440-23-5 | Sodium | 38100 | | | P |
| 7440-28-0 | Thallium | 5.00 | U | W UJ | F |
| 7440-62-2 | Vanadium | 33.5 | B | U | P |
| 7440-66-6 | Zinc | 4.40 | B | | P |
| | Cyanide | 33.2 | U | | C |

10/9/91

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOF10

Lab Name:Roy F. Weston, Inc. Contract:6168-02-01

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP787

Matrix (soil/water):WATER Lab Sample ID:9103787009

Level (low/med): LOW Date Received:03/02/91

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 77.0 | U | | P |
| 7440-36-0 | Antimony | 19.0 | U | | P |
| 7440-38-2 | Arsenic | 5.90 | ~~B~~ | W J | F |
| 7440-39-3 | Barium | 35.2 | B | | P |
| 7440-41-7 | Beryllium | 1.00 | U | | P |
| 7440-43-9 | Cadmium | 4.00 | U | | P |
| 7440-70-2 | Calcium | 59600 | | | P |
| 7440-47-3 | Chromium | 3.50 | B | | P |
| 7440-48-4 | Cobalt | 4.00 | U | | P |
| 7440-50-8 | Copper | 7.00 | U | | P |
| 7439-89-6 | Iron | 115 | | | P |
| 7439-92-1 | Lead | 2.00 | ~~U~~ | W UJ | F |
| 7439-95-4 | Magnesium | 17200 | | | P |
| 7439-96-5 | Manganese | 14.5 | ~~B~~ | J | P |
| 7439-97-6 | Mercury | 0.200 | U | | CV |
| 7440-02-0 | Nickel | 7.00 | U | | P |
| 7440-09-7 | Potassium | 9580 | | | P |
| 7782-49-2 | Selenium | 2.90 | ~~B~~ | W J | F |
| 7440-22-4 | Silver | 4.00 | U | | P |
| 7440-23-5 | Sodium | 39200 | | | P |
| 7440-28-0 | Thallium | 5.00 | ~~U~~ | W UJ | F |
| 7440-62-2 | Vanadium | 32.0 | ~~B~~ | U | P |
| 7440-66-6 | Zinc | 3.00 | U | | P |
| | Cyanide | | | | |
| | | | | | |

10/9/91

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

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U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOF20

Lab Name:Roy F. Weston, Inc. Contract:6168-02-01

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP787

Matrix (soil/water):WATER Lab Sample ID:9103787011

Level (low/med): LOW Date Received:03/02/91

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 77.0 | U | | P |
| 7440-36-0 | Antimony | 19.0 | U | | P |
| 7440-38-2 | Arsenic | 2.70 | B | W J | F |
| 7440-39-3 | Barium | 61.4 | B | | P |
| 7440-41-7 | Beryllium | 1.00 | U | | P |
| 7440-43-9 | Cadmium | 4.00 | U | | P |
| 7440-70-2 | Calcium | 55900 | | | P |
| 7440-47-3 | Chromium | 3.00 | U | | P |
| 7440-48-4 | Cobalt | 4.00 | U | | P |
| 7440-50-8 | Copper | 7.00 | U | | P |
| 7439-89-6 | Iron | 66.7 | B | | P |
| 7439-92-1 | Lead | 2.00 | U | W UJ | F |
| 7439-95-4 | Magnesium | 16400 | | | P |
| 7439-96-5 | Manganese | 4.60 | B | J | P |
| 7439-97-6 | Mercury | 0.200 | U | | CV |
| 7440-02-0 | Nickel | 7.00 | U | | P |
| 7440-09-7 | Potassium | 6580 | | | P |
| 7782-49-2 | Selenium | 2.70 | B | W J | F |
| 7440-22-4 | Silver | 4.00 | U | | P |
| 7440-23-5 | Sodium | 23500 | | | P |
| 7440-28-0 | Thallium | 5.00 | U | W UJ | F |
| 7440-62-2 | Vanadium | 24.1 | B | U | P |
| 7440-66-6 | Zinc | 3.00 | U | | P |
| | Cyanide | | | | |

10/9/91

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

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U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOF28

Lab Name:Roy F. Weston, Inc. Contract:6168-02-01

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP787

Matrix (soil/water):WATER Lab Sample ID:9103787013

Level (low/med): LOW Date Received:03/02/91

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 77.0 | U | | P |
| 7440-36-0 | Antimony | 19.0 | U | | P |
| 7440-38-2 | Arsenic | 2.90 | B | W J | F |
| 7440-39-3 | Barium | 23.1 | B | | P |
| 7440-41-7 | Beryllium | 1.00 | U | | P |
| 7440-43-9 | Cadmium | 4.00 | U | | P |
| 7440-70-2 | Calcium | 50500 | | | P |
| 7440-47-3 | Chromium | 67.3 | | | P |
| 7440-48-4 | Cobalt | 4.00 | U | | P |
| 7440-50-8 | Copper | 7.90 | B | | P |
| 7439-89-6 | Iron | 1440 | | | P |
| 7439-92-1 | Lead | 2.00 | B | W UJ | F |
| 7439-95-4 | Magnesium | 14700 | | | P |
| 7439-96-5 | Manganese | 37.8 | J | | P |
| 7439-97-6 | Mercury | 0.200 | U | | CV |
| 7440-02-0 | Nickel | 39.8 | B | | P |
| 7440-09-7 | Potassium | 7710 | | | P |
| 7782-49-2 | Selenium | 1.90 | B | W J | F |
| 7440-22-4 | Silver | 4.00 | U | | P |
| 7440-23-5 | Sodium | 27000 | | | P |
| 7440-28-0 | Thallium | 5.00 | B | W UJ | F |
| 7440-62-2 | Vanadium | 25.3 | B | U | P |
| 7440-66-6 | Zinc | 3.40 | B | | P |
| | Cyanide | 5.00 | U | | C |

10/9/91

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

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U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BOOF29

Lab Name:Roy F. Weston, Inc. Contract:6168-02-01

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP787

Matrix (soil/water):WATER Lab Sample ID:9103787014

Level (low/med): LOW Date Received:03/02/91

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 77.0 | U | | P |
| 7440-36-0 | Antimony | 20.1 | B | UL | P |
| 7440-38-2 | Arsenic | 3.00 | B | W J | F |
| 7440-39-3 | Barium | 22.5 | B | | P |
| 7440-41-7 | Beryllium | 1.00 | U | | P |
| 7440-43-9 | Cadmium | 4.00 | U | | P |
| 7440-70-2 | Calcium | 48700 | | | P |
| 7440-47-3 | Chromium | 3.00 | U | | P |
| 7440-48-4 | Cobalt | 4.00 | U | | P |
| 7440-50-8 | Copper | 7.00 | U | | P |
| 7439-89-6 | Iron | 90.5 | B | | P |
| 7439-92-1 | Lead | 2.00 | B | W UJ | F |
| 7439-95-4 | Magnesium | 14200 | | | P |
| 7439-96-5 | Manganese | 19.8 | J | | P |
| 7439-97-6 | Mercury | 0.200 | U | | CV |
| 7440-02-0 | Nickel | 7.00 | U | | P |
| 7440-09-7 | Potassium | 7330 | | | P |
| 7782-49-2 | Selenium | 2.30 | B | W J | F |
| 7440-22-4 | Silver | 4.00 | U | | P |
| 7440-23-5 | Sodium | 25900 | | | P |
| 7440-28-0 | Thallium | 5.00 | B | W UJ | F |
| 7440-62-2 | Vanadium | 24.5 | B | UL | P |
| 7440-66-6 | Zinc | 3.00 | U | | P |
| | Cyanide | | | | |

JJ 10/9/91

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00F44

Lab Name:Roy F. Weston, Inc. Contract:6168-02-01

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP787

Matrix (soil/water):WATER Lab Sample ID:9103815001

Level (low/med): LOW Date Received:03/06/91

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 77.0 | U | | P |
| 7440-36-0 | Antimony | 19.0 | U | | P |
| 7440-38-2 | Arsenic | 4.90 | B | J | F |
| 7440-39-3 | Barium | 26.9 | B | | P |
| 7440-41-7 | Beryllium | 1.00 | U | | P |
| 7440-43-9 | Cadmium | 4.00 | U | | P |
| 7440-70-2 | Calcium | 31300 | | | P |
| 7440-47-3 | Chromium | 56.0 | | | P |
| 7440-48-4 | Cobalt | 4.00 | U | | P |
| 7440-50-8 | Copper | 7.00 | U | | P |
| 7439-89-6 | Iron | 231 | | | P |
| 7439-92-1 | Lead | 2.00 | B | W UJ | F |
| 7439-95-4 | Magnesium | 10100 | | | P |
| 7439-96-5 | Manganese | 5.80 | B | J | P |
| 7439-97-6 | Mercury | 0.200 | U | | CV |
| 7440-02-0 | Nickel | 33.8 | B | | P |
| 7440-09-7 | Potassium | 5570 | | | P |
| 7782-49-2 | Selenium | 1.00 | B | W UJ | F |
| 7440-22-4 | Silver | 4.00 | U | | P |
| 7440-23-5 | Sodium | 23000 | | | P |
| 7440-28-0 | Thallium | 5.00 | B | W UJ | F |
| 7440-62-2 | Vanadium | 33.7 | B | U | P |
| 7440-66-6 | Zinc | 3.00 | U | | P |
| | Cyanide | 5.00 | U | | C |

10/9/91

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00F45

Lab Name:Roy F. Weston, Inc. Contract:6168-02-01

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP787

Matrix (soil/water):WATER Lab Sample ID:9103815002

Level (low/med): LOW Date Received:03/06/91

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 77.0 | U | | P |
| 7440-36-0 | Antimony | 19.0 | U | | P |
| 7440-38-2 | Arsenic | 4.80 | B | J | F |
| 7440-39-3 | Barium | 28.7 | B | | P |
| 7440-41-7 | Beryllium | 1.00 | U | | P |
| 7440-43-9 | Cadmium | 4.00 | U | | P |
| 7440-70-2 | Calcium | 32700 | | | P |
| 7440-47-3 | Chromium | 5.00 | B | | P |
| 7440-48-4 | Cobalt | 4.00 | U | | P |
| 7440-50-8 | Copper | 7.00 | U | | P |
| 7439-89-6 | Iron | 37.0 | U | | P |
| 7439-92-1 | Lead | 4.40 | J | W | F |
| 7439-95-4 | Magnesium | 10500 | | | P |
| 7439-96-5 | Manganese | 2.00 | U | | P |
| 7439-97-6 | Mercury | 0.200 | U | | CV |
| 7440-02-0 | Nickel | 7.00 | U | | P |
| 7440-09-7 | Potassium | 5230 | | | P |
| 7782-49-2 | Selenium | 1.00 | | | F |
| 7440-22-4 | Silver | 4.00 | U | | P |
| 7440-23-5 | Sodium | 24000 | | | P |
| 7440-28-0 | Thallium | 5.00 | U | W UJ | F |
| 7440-62-2 | Vanadium | 33.8 | B | U | P |
| 7440-66-6 | Zinc | 6.30 | B | | P |
| | Cyanide | | | | |
| | | | | | |

10/9/91

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00F47

Lab Name:Roy F. Weston, Inc. Contract:6168-02-01

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP787

Matrix (soil/water):WATER Lab Sample ID:9103815003

Level (low/med): LOW Date Received:03/06/91

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 77.0 | U | | P |
| 7440-36-0 | Antimony | 22.4 | ~~B~~ | U | P |
| 7440-38-2 | Arsenic | 5.80 | ~~B~~ | J | F |
| 7440-39-3 | Barium | 38.5 | B | | P |
| 7440-41-7 | Beryllium | 1.00 | U | | P |
| 7440-43-9 | Cadmium | 4.00 | U | | P |
| 7440-70-2 | Calcium | 31300 | | | P |
| 7440-47-3 | Chromium | 30.3 | | | P |
| 7440-48-4 | Cobalt | 4.00 | U | | P |
| 7440-50-8 | Copper | 7.00 | U | | P |
| 7439-89-6 | Iron | 144 | | | P |
| 7439-92-1 | Lead | 2.00 | U | | F |
| 7439-95-4 | Magnesium | 9730 | | | P |
| 7439-96-5 | Manganese | 3.50 | ~~B~~ | J | P |
| 7439-97-6 | Mercury | 0.200 | U | | CV |
| 7440-02-0 | Nickel | 15.2 | B | | P |
| 7440-09-7 | Potassium | 4930 | B | | P |
| 7782-49-2 | Selenium | 1.00 | ~~U~~ | W UJ | F |
| 7440-22-4 | Silver | 4.00 | U | | P |
| 7440-23-5 | Sodium | 18200 | | | P |
| 7440-28-0 | Thallium | 5.00 | ~~U~~ | W UJ | F |
| 7440-62-2 | Vanadium | 35.4 | ~~B~~ | U | P |
| 7440-66-6 | Zinc | 3.00 | U | | P |
| | Cyanide | 5.00 | U | | C |
| | | | | | |

10/9/91

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B00F48

Lab Name:Roy F. Weston, Inc. Contract:6168-02-01

Lab Code:WESTON Case No:WEST SAS No.: SDG No.:CLP787

Matrix (soil/water):WATER Lab Sample ID:9103815004

Level (low/med): LOW Date Received:03/06/91

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 77.0 | U | | P |
| 7440-36-0 | Antimony | 19.0 | U | | P |
| 7440-38-2 | Arsenic | 6.30 | B | N J | F |
| 7440-39-3 | Barium | 37.8 | B | | P |
| 7440-41-7 | Beryllium | 1.00 | U | | P |
| 7440-43-9 | Cadmium | 4.00 | U | | P |
| 7440-70-2 | Calcium | 30300 | | | P |
| 7440-47-3 | Chromium | 4.50 | B | | P |
| 7440-48-4 | Cobalt | 4.00 | U | | P |
| 7440-50-8 | Copper | 7.00 | U | | P |
| 7439-89-6 | Iron | 49.7 | B | | P |
| 7439-92-1 | Lead | 2.00 | U | W UJ | F |
| 7439-95-4 | Magnesium | 9360 | | | P |
| 7439-96-5 | Manganese | 2.00 | U | | P |
| 7439-97-6 | Mercury | 0.200 | U | | CV |
| 7440-02-0 | Nickel | 7.00 | U | | P |
| 7440-09-7 | Potassium | 5450 | | | P |
| 7782-49-2 | Selenium | 1.00 | U | W UJ | F |
| 7440-22-4 | Silver | 4.00 | U | | P |
| 7440-23-5 | Sodium | 17100 | | | P |
| 7440-28-0 | Thallium | 5.00 | U | W UJ | F |
| 7440-62-2 | Vanadium | 35.0 | B | U | P |
| 7440-66-6 | Zinc | 3.00 | U | | P |
| | Cyanide | | | | |
| | | | | | |

10/9/91

Color Before:COLORLESS Clarity Before:CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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