9613451.2425

START

9207L025-WES-691

0044593

WESTON

ROY F. WESTON, INC.
Lionville Laboratory

**CLIENT:** WESTINGHOUSE HANFORD **SAMPLE(S) RECEIVED:** 07-16-92
**RFW #:** 9207L025
**W.O. #:** 6168-02-01

## INORGANIC NARRATIVE

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

1. The sample holding time as required by 40CFR136 was met.

2. The preparation blank result was below the required detection limit.

3. Insufficient sample volume provided for matrix spike and matrix spike dup.

4. The laboratory control standard (blank spike) was within the control limits of 80-120% (70-130% for Total Organic Halides). The %RPD was within the 20% (40% for Total Organic Halides) guidance limit.

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

RECORD COPY

AUG 1992
RECEIVED
OSM DMO

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

08.20.92
Date

FEB 1996
RECEIVED
EDMC

pas/i07-025

ROY F. WESTON INC.

INORGANIC DATA SUMMARY REPORT 08/18/92

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

WESTON BATCH #: 9207L025

| SAMPLE | SITE ID | ANALYTE | RESULT | UNITS | REPORTING LIMIT |
|---|---|---|---|---|---|
| -001 | B06ZR0 | Total Organic Halides | 12.4 | UG/L | 5.0 |

| WESTON Analytics Use Only |
|---|
| 9207L025 |

# Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 1

Client: Westinghouse Hanford.
Est. Final Proj. Sampling Date:
Work Order #: 6168-0201
Project Contact/Phone #:
AD Project Manager: Josie King
QC: CLP Del: CLP TAT: 35 days
Date Rec'd: 7-16-92 Date Due: 8-20-92
Account #: WS-HANFORD

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Refrigerator # | | | | | | 1 | | | | | | | | | |
| # Type Container | Liquid | | | | | 16 | | | | | | | | | |
| | Solid | | | | | | | | | | | | | | |
| Volume | Liquid | | | | | 250 | | | | | | | | | |
| | Solid | | | | | | | | | | | | | | |
| Preservatives | | | | | | 1/2 SO4 | | | | | | | | | |
| ANALYSES REQUESTED → | | ORGANIC | | | | TOX | | | INORG | | | | | | |
| | | VOA | BNA | Pest/PCB | Herb | | | | Metal | CN | | | | | |

WESTON Analytics Use Only

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

| Lab ID | Client ID/Description | Matrix QC Chosen (✓) MS | MSD | Matrix | Date Collected | Time Collected | TOX |
|---|---|---|---|---|---|---|---|
| 001 | B06ZR0 | | | W | 7-12-92 | | ✓ |

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions: Project: 200AAMS
① MS/MSD Required

DATE/REVISIONS: RAD INFO TO FOLLOW
1.
2.
3.
4.
5.
6.

original Recorder

| Relinquished by | Received by | Date | Time |
|---|---|---|---|
| Fred X | [signature] | 09:30 | 7-16-92 |

| Relinquished by | Received by | Date | Time |
|---|---|---|---|
| | [signature] | 7-16-92 | |

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

WESTON Analytics Use Only

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

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

RFW 21-21-001/A-7/91 L372 L373 L375 L377 L378 Ref# none Cooler# SML-152 381 596a

9613451.2427

9613451.2428

12

92072L075

| Westinghouse Hanford Company | CHAIN OF CUSTODY WESTON |
|---|---|

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Telephone (509)376-5045

Project Designation/Sampling Locations 200AAMS

Collection Date July 12, 1992

Ice Chest No. SAL-152

Field Logbook No. EFL 1032

Bill of Lading/Airbill No. 250986906-5

Offsite Property No. W92-0-0533-4

Method of Shipment EMERY

Shipped to TMA

Possible Sample Hazards/Remarks N/A

Sample Identification

B06ZR0

~~3, 40ml, aG, WATER, CLP VOA~~

~~3, 2L, aG, WATER, SEMI VOA, PCB/PEST~~

~~1, 1L, P, WATER, ICP/AA METAL & Hg (HNO3) UNFILTERED~~

~~3, 1L, P, WATER, TDS, ANIONS, TSS, ALK~~

~~1, 1L, P, WATER, AMMONIA, COD (H2SO4)~~

~~1, 250ml, aG, WATER, TOC(INCLUDES BICARBONATE/CARBONATE (H2SO4)~~

1, 250ml, Gs, WATER, TOX (H2SO4)

~~1, 1L, P, WATER, GROSS ALPHA/BETA, GAMMA SCAN (HNO3)~~

~~B06ZR1~~

~~1, 1L, P, WATER, ICP/AA METAL & Hg (HNO3) (FILTERED)~~

~~B06ZA2~~

~~3, 40ml aG, WATER, CLP VOA~~

| [] Field Transfer of Custody | Chain of Possession | (Sign and Print Names) |
|---|---|---|
| Relinquished by: C Celiberti C. CELIBERTI | Received by: Refrid | Date/Time: 7-13-92 1530 |
| Relinquished by: | Received by: K. Trapp / K. Trapp | Date/Time: 7/13/92 0950 |
| Relinquished by: K. Trapp / K. Trapp | Received by: Kermit Blum | Date/Time: 7-15-92 1100 |
| Relinquished by: Fed-X | Received by: [illegible] | Date/Time: 7-16-92 09:30 |

Final Sample Disposition

| Disposal Method: | Disposed by: | Date/Time: |
|---|---|---|

Comments:

A-6000-407 (12/90) (EF) WEF061
Chain of Custody

9613451.2429

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Westinghouse Hanford Company

# SAMPLE ANALYSIS REQUEST Task #92-123

## PART I: FIELD SECTION

.or Kirby Lee — Date Sampled 7/12/92 — Time 0700 hours

npany Contact PH Butcher — Telephone (509) 376-5045

| ample umber | Number and Type of Sample Containers | Type of Sample* | Analysis Requested |
|---|---|---|---|
| 762R0 | ~~3, Gs, 40ml~~ | ~~W~~ | ~~CLP VOA~~ |
| | ~~3, Gs, 2L~~ | ~~W~~ | ~~Semi-VOA, Pest/PCB~~ |
| | ~~1, P, 1L~~ | ~~W~~ | ~~ICP/AA Metals + Hg (HNO3) Unfiltered~~ |
| | ~~1, P, 1L~~ | ~~W~~ | ~~TDS, BOD, Dissolved Oxygen, Anions, TSS, Alk~~ |
| | ~~1, P, 1L~~ | ~~W~~ | ~~Ammonia, COD (H2SO4)~~ |
| | ~~1, Gs, 250ml~~ | ~~W~~ | ~~TOC (Includes Bicarbonate/Carbonate) (H2SO4)~~ |
| | 1, Gs. 250ml | W | TOX ($H_2SO_4$) |
| | ~~1, P, 1L~~ | ~~W~~ | ~~Gross Alpha/Beta, Gamma Scan (HNO3)~~ |
| | | | |
| | | | |
| ~~67R1~~ | ~~1, P, 1L~~ | ~~W~~ | ~~ICP/AA Metals + Hg (HNO3) Filtered~~ |
| | | | |
| ~~67R2~~ | ~~3, 40ml, Gs~~ | ~~W~~ | ~~CLP-VOA~~ |
| | | | |
| | | | |
| | | | BOL #: 250986 406-5 |
| | | | OPC #: WA2-0-0533-4 |
| | | | |
| | | | |
| | | | |

d Information** _____

ecial Handling and/or Storage _____

ssible Sample Hazards _____

## PART II: LABORATORY SECTION

ed by Kermit Blum — Title Sample Control Supervisor — Date 7-15-92

alysis Required _____

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FEDERAL EXPRESS

QUESTIONS? CALL 800-238-5355 TOLL FREE.

AIRBILL PACKAGE TRACKING NUMBER 2521034386

2521034386

9207L025

**RECIPIENT'S COPY**

1 Date

From (Your Name) Please Print — Your Phone Number (Very Important)

Company — Department/Floor No

Street Address

City — State — ZIP Required

2 To (Recipient's Name) Please Print — Recipient's Phone Number (Very Important)

Company — Department/Floor No

Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes)

City — State — ZIP Required 19341

YOUR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on invoice)

H IF HOLD FOR PICK-UP, Print FEDEX Address Here

Street Address

City — State — ZIP Required

3 PAYMENT 1 [X] Bill Sender 2 [ ] Bill Recipient's FedEx Acct No 3 [ ] Bill 3rd Party FedEx Acct No 4 [ ] Bill Credit Card 5 [ ] Cash/Check

4 SERVICES (Check only one box)

Priority Overnight (Delivery by next business morning†)
- 11 [X] YOUR PACKAGING
- 16 [ ] FEDEX LETTER *
- 12 [ ] FEDEX PAK *
- 13 [ ] FEDEX BOX
- 14 [ ] FEDEX TUBE

Standard Overnight (Delivery by next business afternoon†)
- 51 [ ] YOUR PACKAGING
- 56 [ ] FEDEX LETTER *
- 52 [ ] FEDEX PAK *
- 53 [ ] FEDEX BOX
- 54 [ ] FEDEX TUBE

Economy Two Day (Delivery by second business day†)
- 30 [ ] ECONOMY

Government Overnight (Restricted to authorized users only)
- 46 [ ] GOVT LETTER
- 41 [ ] GOVT PACKAGE

Freight Service (for Extra Large/Wide packages or 150 lbs.)
- 70 [ ] OVERNIGHT FREIGHT ** (Confirmed reservation required)
- 80 [ ] TWO-DAY FREIGHT **

† Delivery commitment may be later in some areas

*Declared Value Limit $100

**Call for delivery schedule

5 DELIVERY AND SPECIAL HANDLING (Check services required)
- 1 [ ] HOLD FOR PICK UP (Fill in Box H)
- 2 [X] DELIVER WEEKDAY
- 3 DELIVER SATURDAY (Extra charge) [ ]
- 4 [ ] DANGEROUS GOODS (Extra charge)
- 5 [ ]
- 6 [ ] DRY ICE lbs.
- 7 [ ] OTHER SPECIAL SERVICE
- 8 [ ]
- 9 [ ] SATURDAY
- 10 [ ]
- 11 [ ]
- 12 [ ] HOLIDAY DELIVERY (Extra charge)

6 PACKAGES — WEIGHT In Pounds Only — YOUR DECLARED VALUE

Total 1 — Total 11 — Total

DIM SHIPMENT

Emp No — Date

[ ] Cash Received

[ ] Return Shipment

[ ] Third Party [ ] Chg To Del [ ] Chg To Hold

Street Address

City — State — Zip

Received By X

Date/Time Received 7 16 92 — FedEx Employee Number 09:30

7 Release Signature

REVISION DATE 6/91

FORMAT #099

099

FEDEX

9613451.2430