

**ENVIRONMENTAL WATER REPORT**

Form EPRW-A

Page 1 of 2  
 Part 1 of 1

Date MAR 04 1993

Agency Identification Number S93-0075

Account No. 3534C

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



Telephone (509) 373-3225

**Sampling Collection and Shipment**

Sampling Site \_\_\_\_\_ Date of Collection February 04, 1993

Date Samples Received at Laboratory February 10, 1993

**Analytical Results**

Parameter Name	Analysis Date	Units	Method	Prep Method	Field Number Lab Number	B07RK5 EM 0309	B07RKO EM 0310	Limit of Detection
Hydrazine	02/16/1993	µg/L	ASTMD1385			ND*	ND*	3.



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

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

Mark A. Hixon  
 Analyst: Mark A. Hixon  
Katherine Kellersberger  
 Reviewer: Katherine Kellersberger  
Norman K. Christensen  
 Laboratory Supervisor: Norman K. Christensen

9713520.0005

000002  
Form EPRW-C  
Page 2 of 2



ENVIRONMENTAL WATER REPORT

Date MAR 04 1993  
Agency Identification Number S93-0075

**General Set Comments**

Quality control data for this set is with set S93-0068.



9713520.0005

Westinghouse  
Hanford Company

CHAIN OF CUSTODY

000006

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Project Designation/Sampling Locations 100-FR-3

Ice Chest No. 5ML-225

Bill of Lading/Airbill No. 2536953001

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045

Collection Date 2/4/93

Field Logbook No. EFL1055

Offsite Property No. W93-0-0226-32

Sample Identification

BO TRKO

1, 40ml, Gs, WATER, HYDRAZINE(HCl)

[ ] Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: 2/4/93 1540 <i>[Signature]</i> C. G. Hamilton	Received by: <i>[Signature]</i> K. Trapp / K. Trapp	Date/Time: 2/9/93 0800	
Relinquished by: 2/9/93 <i>[Signature]</i> K. Trapp / K. Trapp 0830	Received by: <i>[Signature]</i>	Date/Time: 2-10-93 / 1000	
Relinquished by:	Received by:	Date/Time:	
Relinquished by:	Received by:	Date/Time:	
Final Sample Disposition			
Disposal Method:	Disposed by:	Date/Time:	
Comments: FRIG #1			

**RADIOACTIVE  
CATEGORY I**

9713520.0006

Westinghouse  
Hanford Company

CHAIN OF CUSTODY

000007

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Project Designation/Sampling Locations 100-FR-3

Ice Chest No. SML-225

Bill of Lading/Airbill No. 2536993001

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045

Collection Date 2/4/93

Field Logbook No. EFL 1055

Offsite Property No. W93-0-0226-32

Sample Identification

BO7RK5

1, 40ml, Gs, WATER, HYDRAZINE(HCl)

[ ] Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: 2/4/93 1540 <i>GG Hamilton</i>	Received by: <i>K. Trapp / K. Trapp</i>	Date/Time: 2/9/93 0800	
Relinquished by: 2/9/93 <i>K. Trapp / K. Trapp</i>	Received by: <i>[Signature]</i>	Date/Time: 2-10-93 / 1000	
Relinquished by:	Received by:	Date/Time:	
Relinquished by:	Received by:	Date/Time:	
Final Sample Disposition			
Disposal Method:	Disposed by:	Date/Time:	
Comments: FRIG #4			

EXHIBIT CATEGORY I

DATA QUALIFICATION SUMMARY

UNIT: 100-FR-3

DOCUMENT CONTROL NUMBER: WHC-SD-EN-TI-175

ANALYSES: Wet Chemistry

RFW NO.: B07RK5-DAT-231

SDG NO.: B07RK0

QUALIFICATION SUMMARY:WET CHEMISTRY

SAMPLE NUMBERS: B07RK0, B07RK5

DATA PACKAGE COMPLETENESS

Hydrazine raw data were not provided for SDG No. B07RK0. All associated hydrazine results have been rejected and flagged "R".



000001 2/20/93

9713520.0009



# ENVIRONMENTAL WATER REPORT

Form EPRW-A

Page 1 of 2

Part 1 of 1

Date MAR 04 1993

Agency Identification Number S93-0075

Account No. 3534C

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



Telephone (509) 373-3225

### Sampling Collection and Shipment

Sampling Site \_\_\_\_\_ Date of Collection February 04, 1993

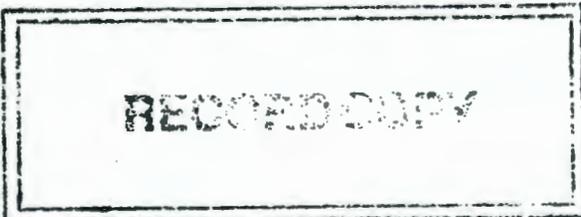
Date Samples Received at Laboratory February 10, 1993

### Analytical Results

Parameter Name	Field Number	Lab Number	Analysis Date	Units	Method	Prep Method	Result	Limit of Detection
Hydrazine		B07RK5 EM 0309	02/16/1993	µg/L	ASTMD1385		ND* 3.0 R	
		B07RKO EM 0310					ND* 3.0 R	
<i>6/7/98 [Signature]</i> <i>Insufficient Raw data</i>								

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

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



*Mark Hix*  
 Analyst: Mark A. Hixon  
*Katherine Kellersberger*  
 Reviewer: Katherine Kellersberger  
*Norman K. Christensen*  
 Laboratory Supervisor: Norman K. Christensen



**3. INITIAL CALIBRATIONS**

Were all instruments calibrated daily, each set-up time and were the proper number of standards used?	Yes	No	<input type="radio"/> N/A
Are the correlation coefficients $\geq 0.995$ ?	Yes	No	<input type="radio"/> N/A
Was a balance check conducted prior to the TDS analysis?	Yes	No	<input type="radio"/> N/A
Was the titrant normality checked?	Yes	No	<input type="radio"/> N/A

**ACTION:** Qualify all data as unusable (R) if reported from an analysis in which the above criteria were not met.

**4. INITIAL AND CONTINUING CALIBRATION VERIFICATION**

Have ICV and CCV been analyzed at the proper frequency?	Yes	No	<input type="radio"/> N/A
Are ICV and CCV percent recoveries within control?	Yes	No	<input type="radio"/> N/A
Are there calculation errors?	Yes	No	<input type="radio"/> N/A

**ACTION:** Qualify all affected data in accordance with the validation requirements.

**5. LABORATORY BLANKS**

Are target analytes present in the laboratory blanks?	Yes	No	<input type="radio"/> N/A
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**ACTION:** Qualify all associated sample results for any analyte  $< 5$  times the amount in any laboratory blank as nondetected (U) and list the affected samples and analytes below.

**6. FIELD BLANKS**

Are target analytes present in the field blanks?	Yes	No	<input type="radio"/> N/A
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**ACTION:** Qualify all sample results for any analyte  $< 5$  times the amount in any valid field blank as nondetected (U).

**7. MATRIX SPIKE SAMPLE ANALYSIS**

Are spike recoveries within the acceptance limits?	Yes	No	<input type="radio"/> N/A
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**ACTION:** If the sample concentration exceeds the spike concentration by a factor of 4 or more, and spike recoveries are outside the acceptance limits, no qualification is necessary. If spike recovery is outside the control limits and the sample results are  $> CRQL$ , qualify the data as estimated (J). If the spike recovery is  $< 30\%$  and the sample results are less than the IDL qualify the data as unusable (R).





COMMENTS (attach additional sheets as necessary): X02115 100-FR-3 Hydrozine

- All results rejected due to a lack of raw data

- Case narrative states that the Quality control data is with set S93-0068. This information is insufficient because:

1. S93-0068 is not available. Did not travel with S93-0075 & ~~no way of determining~~ <sup>what</sup>

2. Each data package should have a copy of raw data, ~~with~~, clearly labelled with the EPA ID numbers pertaining to each separate SDG report.

- No matrix spike, duplicate, LCSW or PBW results ~~was~~ raw data were included in this report.

No way to determine what samples belong with S93-0068







Westinghouse  
Hanford Company

9713520.0018

CHAIN OF CUSTODY

000006

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Project Designation/Sampling Locations 100-FR-3

Ice Chest No. 5ML-225

Bill of Lading/Airbill No. 2536953001

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045

Collection Date 2/4/93

Field Logbook No. EFL1055

Offsite Property No. W93-0-0226-32

Sample Identification

BO 7PKO

1, 40ml, Gs, WATER, HYDRAZINE(HCl)

[ ] Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: 2/4/93 1540 <i>[Signature]</i> G.C. HAMILTON	Received by: <i>[Signature]</i> K. Trapp / K. Trapp	Date/Time: 2/9/93 0800	
Relinquished by: 2/9/93 <i>[Signature]</i> K. Trapp / K. Trapp 0830	Received by: <i>[Signature]</i>	Date/Time: 2-10-93 / 1000	
Relinquished by:	Received by:	Date/Time:	
Relinquished by:	Received by:	Date/Time:	
Final Sample Disposition			
Disposal Method:	Disposed by:	Date/Time:	
Comments: FRIG #1			

**RADIOACTIVE  
CATEGORY I**

Custody Form Initiator PH BUTCHER  
 Company Contact PH BUTCHER Telephone (509)376-5045  
 Project Designation/Sampling Locations 100-FR-3 Collection Date 2/4/93  
 Ice Chest No. 5ML-225 Field Logbook No. EFL 1055  
 Bill of Lading/Airbill No. 2536993001 Offsite Property No. W93-0-0226-32  
 Method of Shipment EMERY  
 Shipped to DATA CHEM  
 Possible Sample Hazards/Remarks N/A

Sample Identification

B07RKS  
 1, 40ml, Gs, WATER, HYDRAZINE(HC1)

[ ] Field Transfer of Custody Chain of Possession (Sign and Print Names)

Relinquished by: 2/4/93 1540 G.C. Hamilton	Received by: K. Trapp / K. Trapp	Date/Time: 2/9/93 0800
Relinquished by: 2/9/93 K. Trapp / K. Trapp 0830	Received by: [Signature]	Date/Time: 2-10-93 / 1000
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition

Disposal Method: Disposed by: Date/Time:

Comments: FRIG #4

EXHAUSTIVE  
 CATEGORY I