

9613473.1497

B08L64-DAT-250
0045170



ENVIRONMENTAL WATER REPORT

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

Date _____

Agency Identification Number SX-0218-AA

Account No. 3534E

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 June 14, 1993

Date Samples Received at Laboratory June 30, 1993

Analytical Results

Parameter Name	Analysis Date	Units	Method	Prep Method	Lab Number	QC-11298-1	QC-11298-1	BL-11298-1	BL-11298-1	B08164 CLP 14041	B08164MS CLP 14041MS	B08164MSD CLP 14041MSD	B08124 CLP 14042	B08159 CLP 14043	B08129 CLP 14044
Hydrazine	07/09/1993	µg/L	ASTMD1385			82.		ND*		ND*	80.	81.	ND*	ND*	ND*



† 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

9613473.1498



ENVIRONMENTAL WATER REPORT

Form EPRW-A

Page 2 of 3

Part 2 of 2

Date _____

Agency Identification Number SX-0218-AA

Account No. 3534E

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 June 14, 1993

Date Samples Received at Laboratory June 30, 1993

Analytical Results

Parameter Name	Analysis Date Units	Method	Prep Method	LAB NUMBER	B081P7 CLP 14045	B081D9 CLP 14046	B08199 CLP 14047	B08134 CLP 14048	B081C4 CLP 14049	B081B4 CLP 14050	B08194 CLP 14051	Units of Detection
Hydrazine	07/09/1993				ND*	0.						
ASTMD1385	µg/L											

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

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

9615473.1499



ENVIRONMENTAL WATER REPORT

Form EPRW-C
Page 3 of 3

Date _____
Agency Identification Number SX-0218-AA

General Set Comments

Case Narrative

Nothing unusual was noted during sample preparation or analysis. Quality control sample target value was 87 µg/L. Matrix spike added was 80 µg/L.

560

DataChem Laboratories Quality Control Report

Method	D-1385	Report Date	7/13/93
Analyte	Hydrazine	Instrument	VIS SPEC
Matrix	Water	Run Number	54-158
		Reporting Limit	3.000 ug/L

Blanks (ug/L)

Preparation	Amount	Upper	Date	Analyst
Group	ID Number	Found	Limit	Analyzed
G936800Q	BL-11298-1	-0.405	30.000	07/09/93 Hixon

LCS (ug/L)

Preparation	Amount	Amount	Percent
Group	ID Number	Found	Spiked
G936800Q	QC-11298-1	82.323	87.000
			94.624

Matrix Spike (ug/L)

Preparation	Amount	Amount	Percent
Group	ID Number	Found	Spiked
G936800Q	CLP 14041	80.183	80.000
			100.229

Matrix Spike Duplicates (ug/L)

Preparation	Amount	Amount	Relative %
Group	ID Number	Found (1)	Found (2)
G936800Q	CLP 14041	80.183	80.897
			0.886



CORPORATE SUPPORT GROUP
10200 VANDERBILT MAN AVE.
IRVINE, CA 92715

P

970 892 160

C.O.D.

06-18-93 P/SC
SHIPPER'S REFERENCE NO. 11457 W93-0-0551 #11

SHIPPER'S ACCOUNT NO. 781134104

COMPANY WESTINGHOUSE HANFORD
DEPT./FLOOR

FROM (YOUR NAME) WESTINGHOUSE SHIPPING DEPT. (509) 376-6669
PHONE NO.

STREET ADDRESS 2355 STEVENS DR

CITY RICHLAND STATE WA ZIP (REQUIRED) 99352

CONSIGNEE'S REFERENCE NO. 2
CONSIGNEE'S ACCOUNT NO.

COMPANY DATA CHEM
DEPT./FLOOR

TO (CONSIGNEE NAME) DATA-CHEM
PHONE NO.

ACCURATE STREET ADDRESS (BURLINGTON CANNOT DELIVER TO A P.O. BOX)
960 WEST LEVOY DRIVE

CITY SALT LAKE CITY STATE UT ZIP (REQUIRED) 84123

AIRBILL NUMBER

CONSIGNEE'S CHECK O.K.
MARK IF APPLICABLE
BURLINGTON AIR EXPRESS WILL COLLECT CONSIGNEE'S CHECK MADE PAYABLE ONLY TO THE SHIPPER FOR VALUE OF THE GOODS IN THE AMOUNT SHOWN ABOVE

DECLARED VALUE \$

LIMIT OF LIABILITY
LIABILITY IS AGREED AND UNDERSTOOD TO BE \$50.00 OR \$50 PER POL. WHICHEVER IS GREATER, UNLESS HIGHER VALUE IS DECLARED AND APPLICABLE CHARGES PAID. SEE REVERSE SIDE OF AIRBILL, PARAGRAPH 8, DECLARED VALUE LIMITATIONS.

1-800-CALL-BAX
FOR INFORMATION OR TO
BAX OFFICE NEAREST YOU

4 BILLING INFORMATION

PREPAID (SHIPPER) \$ CASH RECEIVED (PAID IN ADVANCE)

COLLECT (CONSIGNEE)

3RD PARTY (ACCT. NO. OR BILLING ADDRESS REQ'D.)

ACCOUNT NO.

COMPANY/NAME

STREET ADDRESS

CITY STATE ZIP

5 SERVICE REQUESTED

OVERNIGHT (NEXT BUSINESS DAY)

SECOND DAY

NEXT FLIGHT OUT

CHECK BELOW IF PACKAGE IS:

LETTER

G.O.H. (GARMENT ON HANGER)

6 HANDLING INFORMATION (* SPECIAL RATE MAY APPLY)

HOLD AT BAX *DANGEROUS GOODS *SATURDAY DELIVERY *SPECIAL DELIVERY *CONVENTION *GOVERNMENT SHIPMENT

SPECIAL INSTRUCTIONS / ADDITIONAL REFERENCE INFORMATION:

NO. OF PCS.	WEIGHT	LENGTH	WIDTH	HEIGHT	DESCRIPTION
1	10				F/B CTN SAMPLES

TOTAL PCS. TOTAL WT. 1 10 SKID(S) SAID TO CONTAIN NO. OF PIEC:

RATE QUOTE NUMBER RECEIVED BY BAX AT SHIPPER'S DOOR BAX TERMINAL

SIGNATURE OF SHIPPER
X
RELEASE SIGNATURE (SENDER AUTHORIZES BAX TO DELIVER SHIPMENT WITHOUT A DELIVERY SIGNATURE AS PER CONDITIONS ON REVERSE OF THIS PAGE.)
X

TIME/DATE OF PICK-UP DRIVER NO.
SIGNED FOR BAX
X

OUTSIDE CARRIER: CHARGES ADVANCED \$

PRO NUMBER

CARRIER NAME

970 892 160
AIRBILL NUMBER

NON-NEGOTIABLE AIRBILL SUBJECT TO TERMS AND CONDITIONS OF CONTRACT ON REVERSE SIDE

CONSIGNEE COPY

9613473.1503

Westinghouse
Hanford Company

CHAIN OF CUSTODY

42

Custody Form Initiator MARY ANN GREEN

Telephone 373-1463/ 372-3075

Company Contact MARY ANN GREEN/ LARRY ZUCK

Collection Date 6-17-93

Project Designation/Sampling Locations SAF#93-110, CONTAINER #100N-93-006200

Ice Chest No. _____

Field Logbook No. _____

Bill of Lading/Airbill No. #970892160

Offsite Property No. _____

Method of Shipment Sample bottle wrapped in plastic, inside a strong tight box with absorbent.

Shipped to DATA CHEM LABORATORIES, SALT LAKE CITY, UT

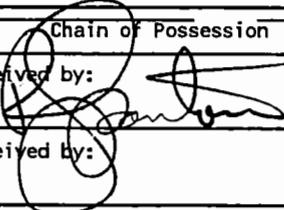
Possible Sample Hazards/Remarks NONE

See Sample Analysis Request for individual containers and analysis.

Sample Identification

BO8NZ4 (1 GLASS BOTTLE)

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

Relinquished by: <u>Mary Ann Green</u>	Received by: 	Date/Time: <u>6/21/93 09:00</u>
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:
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Comments:

9613473.1504

Westinghouse Hanford Company	CHAIN OF CUSTODY
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Custody Form Initiator PH BUTCHER	Telephone (509)376-5045
Company Contact PH BUTCHER	Collection Date 6/14/93
Project Designation/Sampling Locations 100-KR-4	Field Logbook No. EP-1048
Ice Chest No. LOCO	Offsite Property No. W93-0-0587-10
Bill of Lading/Airbill No. 2536955773	
Method of Shipment EMERY	
Shipped to DATA CHEM	
Possible Sample Hazards/Remarks N/A	

Sample Identification

BO 8L64
1, 40ml, Gs, WATER, HYDRAZINE(HCl)

<input type="checkbox"/> Field Transfer of Custody	Chain of Possession	(Sign and Print Names)
Relinquished by: <i>Kathy Abel K.S. Co</i>	Received by: <i>K. Trapp / K. Trapp</i>	Date/Time: <i>6/29/93 0900</i>
Relinquished by: <i>K. Trapp / K. Trapp</i> <i>6/29/93 0900</i>	Received by: <i>[Signature]</i>	Date/Time: <i>6/30/93 11:00</i>
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition		
Disposal Method:	Disposed by:	Date/Time:
Comments: <i>relinq. to D.C. # 3C by 1228</i>		

9613473.1505

Westinghouse
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Project Designation/Sampling Locations 100-KR-4

Ice Chest No. LOCO

Bill of Lading/Airbill No. 2936959773

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045

Collection Date 6/15/93

Field Logbook No. RFL-1048

Offsite Property No. W93-0-0585-10

Sample Identification

BO 8L24
1, 40ml, Gs, WATER, HYDRAZINE(HCl)

[] Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: <i>K.D. Lee</i>	Received by: <i>K. Trapp</i>	Date/Time: 6/29/93 0900	
Relinquished by: <i>K.D. Lee</i> 6/29/93	Received by: <i>K. Trapp</i>	Date/Time: 6/30/93 11:00	
Relinquished by:	Received by:	Date/Time:	
Relinquished by:	Received by:	Date/Time:	
Final Sample Disposition			
Disposal Method:	Disposed by:	Date/Time:	
Comments: <i>relinq. to frij. # 3B by K.O. Lee 1265</i>			

9613473.1506

Westinghouse
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Project Designation/Sampling Locations 100-KR-4

Ice Chest No. LOCO

Bill of Lading/Airbill No. 2536999773

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045

Collection Date 6/16/93

Field Logbook No. FECL-1048

Offsite Property No. W93-0-0585-10

Sample Identification

BO 8L59

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

[] Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: <i>K. O. Lee</i>	Received by: <i>K. Trapp</i>	Date/Time: 6/29/93 0900	
Relinquished by: <i>K. Trapp</i> 6/29/93 0900	Received by: <i>[Signature]</i>	Date/Time: 6/30/93 11:00	
Relinquished by:	Received by:	Date/Time:	
Relinquished by:	Received by:	Date/Time:	
Final Sample Disposition			
Disposal Method:	Disposed by:	Date/Time:	
Comments: <i>relinq. to fig. # 3B by K.O. Lee 1208</i>			

596
~~596~~
8/13/93

9613473.1507

Westinghouse Hanford Company	CHAIN OF CUSTODY
Custody Form Initiator PH BUTCHER	Telephone (509)376-5045
Company Contact PH BUTCHER	Collection Date 6/17/93
Project Designation/Sampling Locations 100-KR-4	Field Logbook No. EFL-1040
Ice Chest No. LOCO	Offsite Property No. W93-0-0585-10
Bill of Lading/Airbill No. 2536755773	
Method of Shipment EMERY	
Shipped to DATA CHEM	
Possible Sample Hazards/Remarks N/A	

Sample Identification

BO 8LBA
1, 40ml, Gs, WATER, HYDRAZINE(HCl)

<input type="checkbox"/> Field Transfer of Custody	Chain of Possession	(Sign and Print Names)
Relinquished by: <i>K.D. Lee</i>	Received by: <i>K. Trapp</i>	Date/Time: <i>6/29/93 0900</i>
Relinquished by: <i>K. Trapp</i>	Received by: <i>[Signature]</i>	Date/Time: <i>6/30/93 11:00</i>
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition		
Disposal Method:	Disposed by:	Date/Time:
Comments: <i>reling. to frig. # 3A by K.D. Lee 1349</i>		

9613473.1908

Westinghouse
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator PH BUTCHER
 Company Contact PH BUTCHER
 Project Designation/Sampling Locations 100-KR-4
 Ice Chest No. L000
 Bill of Lading/Airbill No. 2536955773
 Method of Shipment EMERY
 Shipped to DATA CHEM
 Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045
 Collection Date 6/17/93
 Field Logbook No. EFL-1048
 Offsite Property No. W93-0-0585-10

Sample Identification

BO 8LFF
 1, 40ml, Gs, WATER, HYDRAZINE(HCl)

<input type="checkbox"/> Field Transfer of Custody	Chain of Possession	(Sign and Print Names)
Relinquished by: <i>K.A. Lee</i>	Received by: <i>K. Trapp</i>	Date/Time: 6/29/93 0900
Relinquished by: <i>K. Trapp</i>	Received by: <i>[Signature]</i>	Date/Time: 6/30/93 11:00
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:
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Comments:

reling. to frig # 3A by K.A. Lee 1349
 A bubble is detected in the sample, at 6/29/93

9613473.1509

Westinghouse Hanford Company	CHAIN OF CUSTODY
Custody Form Initiator PH BUTCHER	Telephone (509)376-5045
Company Contact PH BUTCHER	Collection Date 6/17/93
Project Designation/Sampling Locations 100-KR-4	Field Logbook No. EFL-1048
Ice Chest No. L000	Offsite Property No. W93-0-0785-10
Bill of Lading/Airbill No. 2536959773	
Method of Shipment EMERY	
Shipped to DATA CHEM	
Possible Sample Hazards/Remarks N/A	

Sample Identification

BO8LD9
1, 40ml, Gs, WATER, HYDRAZINE(HCl)

<input type="checkbox"/> Field Transfer of Custody	Chain of Possession	(Sign and Print Names)
Relinquished by: <i>Kathy D. Lee K.D. Lee</i>	Received by: <i>K. Trapp / K. Trapp</i>	Date/Time: <i>6/29/93 0900</i>
Relinquished by: <i>K. Trapp / K. Trapp</i> <i>6/29/93 0900</i>	Received by: <i>[Signature]</i>	Date/Time: <i>6/30/93 11:00</i>
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:
Final Sample Disposition		
Disposal Method:	Disposed by:	Date/Time:
Comments: <i>relinq. to G.S. # 3A by K.D. Lee 1349</i>		

9613473.1510

Westinghouse Hanford Company	<h2 style="margin: 0;">CHAIN OF CUSTODY</h2>
Custody Form Initiator PH BUTCHER	
Company Contact PH BUTCHER	
Project Designation/Sampling Locations 100-KR-4	
Ice Chest No. LOCO	
Bill of Lading/Airbill No. 2536955773	
Method of Shipment EMERY	
Shipped to DATA CHEM	
Possible Sample Hazards/Remarks N/A	
Telephone (509)376-5045	
Collection Date 6-18-93	
Field Logbook No. EFL-1048	
Offsite Property No. W93-0-0595-10	

Sample Identification

BO 8L99
 1, 40ml, Gs, WATER, HYDRAZINE(HCl)

<input type="checkbox"/> Field Transfer of Custody	Chain of Possession	(Sign and Print Names)
Relinquished by: <i>[Signature]</i> B. WHITTEN	Received by: <i>[Signature]</i> K. J. Mump / K. Trapp	Date/Time: 6-18-93 6/29/93 0900
Relinquished by: 6/29/93 K. J. Mump / K. Trapp 0900	Received by: <i>[Signature]</i>	Date/Time: 6/30/93 11:00
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition		
Disposal Method:	Disposed by:	Date/Time:
Comments: Relinquish to FRIG # 3A by B. WHITTEN 6-18-93 1155		

9613473.1511

Westinghouse Hanford Company	<h2 style="margin: 0;">CHAIN OF CUSTODY</h2>
Custody Form Initiator PH BUTCHER	
Company Contact PH BUTCHER	
Project Designation/Sampling Locations 100-KR-4	
Ice Chest No. LOLO	
Bill of Lading/Airbill No. 2536955773	
Method of Shipment EMERY	
Shipped to DATA CHEM	
Possible Sample Hazards/Remarks N/A	

Telephone (509)376-5045
 Collection Date **6/25/93**
 Field Logbook No. **EP-1043**
 Offsite Property No. **W93-0-0585-10**

Sample Identification

BO 8L34
 1, 40ml, Gs, WATER, HYDRAZINE(HCl)

[] Field Transfer of Custody	Chain of Possession	(Sign and Print Names)
Relinquished by: <i>K.O. Lee</i> K.O. Lee	Received by: <i>K. Trapp</i> K. Trapp	Date/Time: 6/29/93 0900
Relinquished by: <i>K. Trapp</i> K. Trapp 6/29/93 0900	Received by: <i>[Signature]</i>	Date/Time: 6/30/93 11:00
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:
Comments: <i>relinq. to fr. # 3A by K.O. Lee 1205</i>		

9613473.1512

Westinghouse Hanford Company	CHAIN OF CUSTODY
Custody Form Initiator PH BUTCHER	Telephone (509)376-5045
Company Contact PH BUTCHER	Collection Date 6/26/93
Project Designation/Sampling Locations 100-KR-4	Field Logbook No. EFL-1048
Ice Chest No. LOCO	Offsite Property No. W93-0-0585-10
Bill of Lading/Airbill No. 2530795773	
Method of Shipment EMERY	
Shipped to DATA CHEM	
Possible Sample Hazards/Remarks N/A	

Sample Identification

BO8LC4
1, 40ml, Gs, WATER, HYDRAZINE(HCl)

<input type="checkbox"/> Field Transfer of Custody	Chain of Possession	(Sign and Print Names)
Relinquished by: <i>K.D. Lee</i>	Received by: <i>K. Trapp</i>	Date/Time: 6/29/93 0900
Relinquished by: <i>K. Trapp</i> 6/29/93 0900	Received by: <i>[Signature]</i>	Date/Time: 6/30/93 11:00
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition		
Disposal Method:	Disposed by:	Date/Time:
Comments: <i>rel. v. g. to frig. # 2C by K.D. Lee 1250</i>		

9613473, 1513

Westinghouse
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator PH BUTCHER
 Company Contact PH BUTCHER
 Project Designation/Sampling Locations 100-KR-4
 Ice Chest No. L060
 Bill of Lading/Airbill No. 2536295773
 Method of Shipment EMERY
 Shipped to DATA CHEM
 Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045
 Collection Date 6/26/93
 Field Logbook No. EFL-1048
 Offsite Property No. W93-0-0599-10

Sample Identification

B08LB4
 1, 40ml, Gs, WATER, HYDRAZINE(HCl)

[] Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: <i>K. D. Lee</i>	Received by: <i>K. D. Lee / K. Trapp</i>	Date/Time: 0900 6/29/93	
Relinquished by: <i>K. D. Lee</i> 6/29/93	Received by: <i>K. Trapp</i>	Date/Time: 6/29/93 11:00	
Relinquished by:	Received by:	Date/Time:	
Relinquished by:	Received by:	Date/Time:	
Final Sample Disposition			
Disposal Method:	Disposed by:	Date/Time:	
Comments: <i>relinq. to frg. # 2A by K. D. Lee 11/85</i>			

9613473.1514

Westinghouse
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Project Designation/Sampling Locations 100-KR-4

Ice Chest No. LOCO

Bill of Lading/Airbill No. 2536975773

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045

Collection Date 6/26/93

Field Logbook No. EPL-1048

Offsite Property No. W93-0-0985-10

Sample Identification

BO SL94

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

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

Relinquished by: <i>K. Lee</i>	Received by: <i>K. Trapp</i>	Date/Time: 6/29/93 0900
Relinquished by: <i>K. Trapp</i> 6/29/93 0900	Received by: <i>[Signature]</i>	Date/Time: 6/30/93 11:00
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:
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Comments:

relinq to fig # 2C by K. Lee 1135

DATA QUALIFICATION SUMMARY

UNIT: 100-KR-4, 4th ROUND GROUNDWATER SAMPLING

DOCUMENT CONTROL NUMBER: WHC-SD-EN-TI-200, REV.0

ANALYSES: Wet Chemistry

SDG NO.: B08L24

QUALIFICATION SUMMARY:WET CHEMISTRY

SAMPLE NUMBERS: B08L24, B08L34, B08L59, B08L64, B08L94,
B08L99, B08LB4, B08LB9, B08LC4, B08LD9,
B08LF7

HOLDING TIMES

The 14-day holding time requirement for hydrazine was exceeded for sample numbers B08L24, B08L59, B08L64, B08L99, B08LB9, B08LD9 and B08LF7 in SDG No. B08L24. The associated sample results were qualified as estimates and flagged "J".

9613473.1518

Westinghouse
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator PH BUTCHER
Company Contact PH BUTCHER
Project Designation/Sampling Locations 100-KR-4
Ice Chest No. L000
Bill of Lading/Airbill No. 2536955773
Method of Shipment EMERY
Shipped to DATA CHEM
Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045
Collection Date 6/14/93
Field Logbook No. EFC-1048
Offsite Property No. W93-0-0587-10

Sample Identification

BO 8L64
1, 40ml, Gs, WATER, HYDRAZINE(HCl)

<input type="checkbox"/> Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: <i>Kathy Abner K.O. Co</i>	Received by: <i>K. Trapp / K. Trapp</i>	Date/Time: 6/29/93	0900
Relinquished by: <i>K. Trapp / K. Trapp</i> 6/29/93	Received by: <i>[Signature]</i>	Date/Time: 6/30/93	11:00
Relinquished by:	Received by:	Date/Time:	
Relinquished by:	Received by:	Date/Time:	

Final Sample Disposition		
Disposal Method:	Disposed by:	Date/Time:
Comments: <i>relays to D.G. RE 30 by 1228</i>		

9613473.1519

Westinghouse Hanford Company	<h2 style="margin: 0;">CHAIN OF CUSTODY</h2>
Custody Form Initiator PH BUTCHER Company Contact PH BUTCHER Project Designation/Sampling Locations 100-KR-4 Ice Chest No. LOCO Bill of Lading/Airbill No. 293695773 Method of Shipment EMERY Shipped to DATA CHEM Possible Sample Hazards/Remarks N/A	Telephone (509)376-5045 Collection Date 6/15/93 Field Logbook No. RFL-1048 Offsite Property No. W93-0-0585-10

Sample Identification

BO 8L24
 1, 40ml, Gs, WATER, HYDRAZINE(HCl)

[] Field Transfer of Custody	Chain of Possession	(Sign and Print Names)
Relinquished by: <i>K.D. Lee</i>	Received by: <i>K. Tripp / K. Tripp</i>	Date/Time: <i>6/29/93 0900</i>
Relinquished by: <i>K. Tripp / K. Tripp 0900</i>	Received by: <i>[Signature]</i>	Date/Time: <i>6/30/93 11:00</i>
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition		
Disposal Method:	Disposed by:	Date/Time:
Comments: <i>relinq. to frid. # 3B by K.D. Lee 1205</i>		

9613473.1520

Westinghouse
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator PH BUTCHER
 Company Contact PH BUTCHER
 Project Designation/Sampling Locations 100-KR-4
 Ice Chest No. LOLO
 Bill of Lading/Airbill No. 2536999773
 Method of Shipment EMERY
 Shipped to DATA CHEM
 Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045
 Collection Date 6/16/93
 Field Logbook No. FEPL-1048
 Offsite Property No. W93-0-0585-10

Sample Identification

BO 8L59
 1, 40ml, Gs, WATER, HYDRAZINE(HCl)

Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: <i>K.O. Lee</i>	Received by: <i>K. Trapp</i>	Date/Time: 6/29/93 0900	
Relinquished by: <i>K. Trapp</i> 6/29/93 0900	Received by: <i>[Signature]</i>	Date/Time: 6/30/93 11:00	
Relinquished by:	Received by:	Date/Time:	
Relinquished by:	Received by:	Date/Time:	

Final Sample Disposition		
Disposal Method:	Disposed by:	Date/Time:
Comments: <i>relinq. to fig. # 3B by K.O. Lee 1208</i>		

596
~~596~~
 8/13/93

9615473.1521

Westinghouse Hanford Company	CHAIN OF CUSTODY
Custody Form Initiator PH BUTCHER	Telephone (509)376-5045
Company Contact PH BUTCHER	Collection Date 6/17/93
Project Designation/Sampling Locations 100-KR-4	Field Logbook No. EFL-1040
Ice Chest No. LOCO	Offsite Property No. W93-0-0585-10
Bill of Lading/Airbill No. 2536755773	
Method of Shipment EMERY	
Shipped to DATA CHEM	
Possible Sample Hazards/Remarks N/A	

Sample Identification

BO **8L B9**
1, 40ml, Gs, WATER, HYDRAZINE(HCl)

<input type="checkbox"/> Field Transfer of Custody	Chain of Possession	(Sign and Print Names)
Relinquished by: <i>K. D. Lee</i>	Received by: <i>K. Trapp</i>	Date/Time: 6/29/93 0900
Relinquished by: <i>K. Trapp</i>	Received by: <i>[Signature]</i>	Date/Time: 6/30/93 11:00
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:
Comments: <i>reling. to frig. # 3A by K.D. Lee 1349</i>		

9613473.1522

Westinghouse
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator PH BUTCHER
 Company Contact PH BUTCHER
 Project Designation/Sampling Locations 100-KR-4
 Ice Chest No. L000
 Bill of Lading/Airbill No. 2536955773
 Method of Shipment EMERY
 Shipped to DATA CHEM
 Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045
 Collection Date 6/17/93
 Field Logbook No. EFL-1048
 Offsite Property No. W93-0-0585-10

Sample Identification

BO 8LFF
 1, 40ml, Gs, WATER, HYDRAZINE(HCl)

[] Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: <i>K.A. Lee</i>	Received by: <i>K. Trapp</i>	6/29/93	Date/Time: 6/29/93 0900
Relinquished by: <i>K. Trapp</i>	Received by: <i>[Signature]</i>	6/29/93	Date/Time: 6/30/93 11:00
Relinquished by:	Received by:		Date/Time:
Relinquished by:	Received by:		Date/Time:

Final Sample Disposition		
Disposal Method:	Disposed by:	Date/Time:

Comments:
 reling. to frig # 3A by K.A. Lee 1349
 A bubble is detected in the sample, at 6/29/93

Westinghouse
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Project Designation/Sampling Locations 100-KR-4

Ice Chest No. L000

Bill of Lading/Airbill No. 2536955773

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045

Collection Date 6/17/93

Field Logbook No. EFL-1048

Offsite Property No. W93-0-0585-10

Sample Identification

BO8LD9
1, 40ml, Gs, WATER, HYDRAZINE(HCl)

[] Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: <i>Kathy D. Lee K.D. Lee</i>	Received by: <i>K. Trapp / K. Trapp</i>	Date/Time: <i>6/29/93 0900</i>	
Relinquished by: <i>K. Trapp / K. Trapp</i> <i>6/29/93 0900</i>	Received by: <i>[Signature]</i>	Date/Time: <i>6/30/93 11:00</i>	
Relinquished by:	Received by:	Date/Time:	
Relinquished by:	Received by:	Date/Time:	
Final Sample Disposition			
Disposal Method:	Disposed by:	Date/Time:	
Comments: <i>relinq. to fig. # 3A by K.D. Lee 1349</i>			

9613473, 1524

Westinghouse
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Project Designation/Sampling Locations 100-KR-4

Ice Chest No. LOCO

Bill of Lading/Airbill No. 253695773

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045

Collection Date 6-18-93

Field Logbook No. EFL-1048

Offsite Property No. W93-0-0595-10

Sample Identification

BO 8L99

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

Field Transfer of Custody

Chain of Possession

(Sign and Print Names)

Relinquished by: <i>Bill Whitten</i> B. WHITTEN	Received by: <i>K. Trapp</i> K. Trapp	Date/Time: 6-18-93 6/29/93 0900
Relinquished by: <i>K. Trapp</i> K. Trapp 0900	Received by: <i>[Signature]</i>	Date/Time: 6/30/93 11:00
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:
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Comments:

Relinqu to FRIG # 3A by Bill Whitten 6-18-93 1155

9613473.1525

Westinghouse
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator PH BUTCHER
 Company Contact PH BUTCHER
 Project Designation/Sampling Locations 100-KR-4
 Ice Chest No. LOLO
 Bill of Lading/Airbill No. 2536955773
 Method of Shipment EMERY
 Shipped to DATA CHEM
 Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045
 Collection Date 6/25/93
 Field Logbook No. EFL-1043
 Offsite Property No. W93-0-0585-10

Sample Identification

BO 8L34
 1, 40ml, Gs, WATER, HYDRAZINE(HCl)

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

Relinquished by: <i>K.O. Lee</i> K.O. Lee	Received by: <i>K. Trapp</i> K. Trapp	Date/Time: 6/29/93 0900
Relinquished by: <i>K. Trapp</i> K. Trapp 6/29/93 0900	Received by: <i>[Signature]</i>	Date/Time: 6/30/93 11:00
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:
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Comments:
relinq. to fr. # 3A by K.O. Lee 1205

9613473.1526

Westinghouse
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Project Designation/Sampling Locations 100-KR-4

Ice Chest No. LOCO

Bill of Lading/Airbill No. 2538955773

Method of Shipment EMERY

Shipped to DATA CHEM

Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045

Collection Date 6/26/93

Field Logbook No. EFL-648

Offsite Property No. W93-0-0575-10

Sample Identification

BO8LC4
1, 40ml, Gs, WATER, HYDRAZINE(HCl)

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

Relinquished by: <i>Christopher K.D. Lee</i>	Received by: <i>K. Trapp / K. Trapp</i>	Date/Time: 6/27/93 0900
Relinquished by: <i>K. Trapp / K. Trapp</i> 6/29/93 0900	Received by: <i>[Signature]</i>	Date/Time: 6/30/93 11:00
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:
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Comments:
rel. to Rig. # 2C by K.D. Lee 1250

9613473.1527

Westinghouse
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator **PH BUTCHER**
 Company Contact **PH BUTCHER**
 Project Designation/Sampling Locations **100-KR-4**
 Ice Chest No. **LOLO**
 Bill of Lading/Airbill No. **2536795773**
 Method of Shipment **EMERY**
 Shipped to **DATA CHEM**
 Possible Sample Hazards/Remarks **N/A**

Telephone **(509)376-5045**
 Collection Date **6/26/93**
 Field Logbook No. **EFL-1048**
 Offsite Property No. **W93-0-0595-10**

Sample Identification

BO8LB4
 1, 40ml, Gs, WATER, HYDRAZINE(HCl)

[] Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: <i>K. D. Lee</i>	Received by: <i>K. D. Lee / K. Trapp</i>	Date/Time: <i>0900 6/29/93</i>	
Relinquished by: <i>K. D. Lee</i> <i>6/29/93</i>	Received by: <i>[Signature]</i>	Date/Time: <i>6/30/93 11:00</i>	
Relinquished by:	Received by:	Date/Time:	
Relinquished by:	Received by:	Date/Time:	

Final Sample Disposition		
Disposal Method:	Disposed by:	Date/Time:
Comments: <i>relinq. to frg. # 2A by K.D. Lee 1185</i>		

9613473, 1528

Westinghouse Hanford Company	CHAIN OF CUSTODY
Custody Form Initiator PH BUTCHER	Telephone (509)376-5045
Company Contact PH BUTCHER	Collection Date 6/26/93
Project Designation/Sampling Locations 100-KR-4	Field Logbook No. EP-1648
Ice Chest No. LOCO	Offsite Property No. W93-0-0985-10
Bill of Lading/Airbill No. 2536775773	
Method of Shipment EMERY	
Shipped to DATA CHEM	
Possible Sample Hazards/Remarks N/A	

Sample Identification

BO SL94
 1, 40ml, Gs, WATER, HYDRAZINE(HCl)

[] Field Transfer of Custody	Chain of Possession	(Sign and Print Names)
Relinquished by: <i>[Signature]</i> K.A. Lee	Received by: <i>[Signature]</i> K. Trapp / K. Trapp	Date/Time: 6/29/93 0900
Relinquished by: <i>[Signature]</i> K. Trapp / K. Trapp 6/29/93 0900	Received by: <i>[Signature]</i>	Date/Time: 6/30/93 11:00
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition		
Disposal Method:	Disposed by:	Date/Time:
Comments: <i>rel. to fig. # 2C by K.A. Lee 1135</i>		



COURTESY SUPPORT GROUP
14000 VICTORIAN AVE.
IRVINE, CA 92715

P

970 892 160

3 C.O.D.
\$

DATE: 06-18-93
ORIGIN: P/SC
DEST. SORT CODE

SHIPPER'S REFERENCE NO. MARY ANN GREEN
SHIPPER'S ACCOUNT NO. E11457 W93-0-0551 #11 781134104

CONSIGNEE'S REFERENCE NO. **2**
CONSIGNEE'S ACCOUNT NO.

COMPANY WESTINGHOUSE HANFORD
DEPT./FLOOR

COMPANY DATA CHEM
DEPT./FLOOR

FROM (YOUR NAME) WESTINGHOUSE SHIPPING DEPT. (509) 376-6665
PHONE NO.

TO (CONSIGNEE NAME) DATA-CHEM
PHONE NO.

STREET ADDRESS 2355 STEVENS DR

ACCURATE STREET ADDRESS (BURLINGTON CANNOT DELIVER TO A P.O. BOX)
960 WEST LEVOY DRIVE

CITY RICHLAND STATE WA ZIP (REQUIRED) 99352

CITY SALT LAKE CITY STATE UT ZIP (REQUIRED) 84123

CONSIGNEE'S CHECK O.K.
MARK IF APPLICABLE
BURLINGTON AIR EXPRESS WILL COLLECT CONSIGNEE'S CHECK MADE PAYABLE ONLY TO THE SHIPPER FOR VALUE OF THE GOODS IN THE AMOUNT SHOWN ABOVE

DECLARED VALUE
\$

LIMIT OF LIABILITY
LIABILITY IS AGREED AND UNDERSTOOD TO BE \$50.00 OR \$.50 PER POUND WHICHEVER IS GREATER, UNLESS HIGHER VALUE IS DECLARED AND APPLICABLE CHARGES PAID. SEE REVERSE SIDE OF AIRBILL, PARAGRAPH 8, DECLARED VALUE LIMITATIONS.

1-800-CALL-BAX
FOR INFORMATION OR TO
BAX OFFICE NEAREST YOU

4 BILLING INFORMATION

PREPAID (SHIPPER) \$ CASH RECEIVED (PAID IN ADVANCE)

COLLECT (CONSIGNEE)

3RD PARTY (ACCT. NO. OR BILLING ADDRESS REQ'D.)

ACCOUNT NO.

COMPANY/NAME

STREET ADDRESS

CITY STATE ZIP

5 SERVICE REQUESTED

OVERNIGHT (NEXT BUSINESS DAY)

SECOND DAY

NEXT FLIGHT OUT

CHECK BELOW IF PACKAGE IS:
 LETTER

G.O.H. (GARMENT ON HANGER)

SIGNATURE OF SHIPPER

RELEASE SIGNATURE (SENDER AUTHORIZES BAX TO DELIVER SHIPMENT WITHOUT A DELIVERY SIGNATURE AS PER CONDITIONS ON REVERSE OF THIS PAGE.)

X

6 HANDLING INFORMATION (*SPECIAL RATE MAY APPLY)

HOLD AT BAX DANGEROUS GOODS SATURDAY DELIVERY SPECIAL DELIVERY CONVENTION GOVERNMENT SHIPMENT

SPECIAL INSTRUCTIONS / ADDITIONAL REFERENCE INFORMATION:

NO. OF PCS.	WEIGHT	LENGTH	WIDTH	HEIGHT	DESCRIPTION
1	10				F/B CTN SAMPLES

TOTAL PCS. 1 TOTAL WT. 10 SKID(S) SAID TO CONTAIN NO. OF PIECES

RATE QUOTE NUMBER

RECEIVED BY BAX AT SHIPPER'S DOOR BAX TERMINAL

TIME/DATE OF PICK-UP DRIVER NO.

SIGNED FOR BAX X

OUTSIDE CARRIER: CHARGES ADVANCED

\$ PRO NUMBER

CARRIER NAME

970 892 160

AIRBILL NUMBER

CONSIGNEE COP'

FORM OF PAYMENT

Check GEL FCCOD

Bill to Shipper Bill to Consignee Third Party Billing

Shipper's Account Number
E 850281585



SERVICES ** INTERNATIO

UNITED STATES / CANADA
 Same Day (Extra Charges)
 AM
 Second Day
 Express
 Standard Plus
 Preferred
 Standard
 Documents
 Customs Clearance
 Delivery

Date: 06-29-98 PSC
 Origin: PSC
 Shipment Number: 253695577 3

From:
 WESTINGHOUSE SHIPPING DEPT. (509) 376-6665
 U.S. DEPARTMENT OF ENERGY C/O
 WESTINGHOUSE HANFORD
 BLDG 1163
 2355 STEVENS DRIVE
 RICHLAND WA

To:
 DATA CHEM
 DATA CHEM
 960 WEST LEVOY DRIVE
 SALT LAKE CITY UT USA

Tariff Dest. Gateway
 Check to Shipper \$

EMERY WORLDWIDE will accept Consignee's check with all risks being assumed by Shipper, including but not limited to non-payment, fraud and misrepresentation.

Customer's Reference Numbers: W81232 PC41A W93-0585#10
 Zip: 99352

Consignee's Account Number: E 84123
 Zip: 84123

Description	Pcs.	Dimensions			Total Pieces	Total Weight (In Lbs.)
		L	W	H		
PH BUTCHER 1 COOLER ID: LOCO WATER SAMPLES	1	16	16	16	1	37

FOR INFORMATION OR RATES
 CALL 1-800 44 EMERY
 (1-800-443-6379)

Declared Value \$

Remarks
 OVERNIGHT DELIVERY
 SIGNATURE SECURITY SERVICE

Zip Ship
 Mark if Emery Packaging is used
 Urgent Letter 9X12
 Urgent Pack 12X15



Shipper's Signature: [Signature]

International Shipments
 Free Domicile Commodity Code

Third Party Account Number mandatory for Third Party Billing: E

International Customs Value
 International Insurance
 Base Charge
 Total Transportation Charges
 Other Charges/Advance at Origin OC/AC \$

SLC-A

9613473.1535



ENVIRONMENTAL WATER REPORT

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

Date
Agency Identification Number SX-0218-AA
Account No. 3534E

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 June 14, 1993

Date Samples Received at Laboratory June 30, 1993

Analytical Results

Table with columns for Parameter Name, Analysis Date, Units, Method, Prep Method, and Lab Number. Row 1: Hydrazine, 07/09/1993, µg/L, ASTMD1385, QC-11298-1 (82), BL-11298-1 (ND*), B08L64 CLP 14041 (ND*), B08L64MS CLP 14041MS (80), B08L64MSD CLP 14041MSD (81), B08L24 CLP 14042 (ND*), B08L59 CLP 14043 (ND*), B08LB9 CLP 14044 (ND*)

† 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.)

Analyst: Mark A. Hixon

Reviewer: Katherine Kellersberger

Laboratory Supervisor: Norman K. Christensen

9613473.1536



ENVIRONMENTAL WATER REPORT

Form EPRW-A

Page 2 of 3
Part 2 of 2

Date _____
Agency Identification Number SX-0218-AA
Account No. 3534E

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 June 14, 1993
Date Samples Received at Laboratory June 30, 1993

Analytical Results

Parameter Name	Analysis Date	Units	Method	Prep Method	B081F7 CLP 14045	B081D9 CLP 14046	B081P9 CLP 14047	B081J4 CLP 14048	B081C4 CLP 14049	B081B4 CLP 14050	B081P4 CLP 14051	Limit of Detection
Hydrazine	07/09/1993	µg/L	ASTMD1385		ND*	3						

† See comment on last page.
 ND Parameter not detected.
 NR Parameter not requested.
 1 Analyses completed on or before this date.
 ** Parameter not analyzed (See comment page).
 () Parameter between LOD and LOQ.
 [] Method Reference (See comments page.)

WET CHEMISTRY DATA VALIDATION CHECKLIST - FORM A-7

PROJECT: VO-KR-4	REVIEWER: Donald K. Wambold	DATE: 9/12/93
LABORATORY: DataChem	CASE: B08L64-DAT-250	SDG: B08L64
SAMPLES/MATRIX: 11 Water (B08L64, B08L2A, B08L5A, B08L3A, B08L5F, B08L7A, B08L9A, B08L34, B08L6A, B08L8A, B08L2A)		

1. DATA PACKAGE COMPLETENESS

Review the data package for completeness and check off the items below. If any data review elements are missing contact the laboratory for submittal of the omitted data.

Data Package Item	Present?:	Yes	No	N/A
Case Narrative		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cover Page		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Traffic Reports/Chain-of-Custody		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample Analysis Data Report Forms		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Standards Data		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
QC Summary				
Blanks Summary Report Forms		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spike Sample Recovery Report Forms		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Duplicate Sample Analysis Report Forms		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Laboratory Control Sample Report Forms		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Raw Data				
Ion Chromatograph Chromatograms		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TOC and TOX Instrument Printouts		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Laboratory Bench Sheets		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Additional Data				
Laboratory Sample Preparation Logs		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Instrument Run Logs		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Internal Laboratory Chain-of-Custody		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Percent Solids Analysis Records		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Reduction Formulae		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chemist Notebook Pages		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2. HOLDING TIMES

Were all samples analyzed within holding times? Yes No N/A

Action: If any holding times were exceeded qualify all affected results as estimated (J for detects and UJ for nondetects).

8. LABORATORY CONTROL SAMPLE

Are percent recoveries within the acceptance limits? Yes No N/A

Are there calculation errors? Yes No N/A

ACTION: Qualify the affected results according to the following requirements:

AQUEOUS LCS - Qualify as estimated (J), all sample results > IDL, for which the LCS %R falls within the range 50-79% or > 120%. Qualify as estimated (UJ), all sample results < IDL, for which the LCS falls within the range of 50-79%. Qualify as unusable (R) all sample results, for which the LCS %R < 50%.

SOLID LCS - Qualify as estimated (J), all sample results > IDL for which the LCS %R is outside the established control limits. Qualify as estimated (UJ), all sample results < IDL for which the LCS %R are lower than the established control limits.

9. PERFORMANCE AUDIT ANALYSES

Are the performance audit sample results within the acceptance limits? *Performance audit samples were not identified on the CCC* Yes No N/A

ACTION: Note the results of the performance audit samples in the validation narrative.

10. DUPLICATE SAMPLE ANALYSIS

Are RPD values within the acceptance limits? Yes No N/A

Action: Qualify the results for all associated samples of the same matrix as estimated (J) if the RPD falls outside the acceptance limits.

11. FIELD DUPLICATE SAMPLES

Do RPD values exceed the acceptance limits? *Field duplicate samples were not identified on the CCC* Yes No N/A

ACTION: Note the results of the field duplicate samples in the validation narrative.

12. FIELD SPLIT SAMPLES

Do RPD values exceed the acceptance limits? *Field split samples were not identified on the CCC* Yes No N/A

ACTION: Note the results of the field split samples in the validation narrative.

COMMENTS (attach additional sheets as necessary): The vial for sample B03LF7 was vial on the C.C. & contain bubbles

We use a 14 day holding time for

Samples were held for three to 15 days after collection before shipment to the laboratory. Since hydrazine is a volatile compound, a holding time limit of seven days was used for the samples in this package. All samples were analyzed more than seven days after collection, therefore the hydrazine results in all samples were qualified as estimated, J.

The laboratory did not analyze a method blank separately from the calibration blanks. This is not acceptable since both types of blanks are necessary to verify possible contamination from reagents, containers and analysis procedure. Future work should include analysis of method blank and compare with the results of reagents, however the matter since blank is corrected in future work.

Based on previous results and the fact that the potential for false positive results exists with this matrix sample, it is recommended that a different sample be used for the analysis of hydrazine.

The laboratory reports the concentration of hydrazine as 10. These results were obtained in a sample of hydrazine in a concentration within the specified limit of detection.

9613473.1540



ENVIRONMENTAL WATER REPORT

Form EPRW-A
Page 2 of 3
Part 2 of 2

Date _____
Agency Identification Number SX-0218-AA
Account No. 3534E

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 June 14, 1993

Date Samples Received at Laboratory June 30, 1993

copying 9/

Analytical Results

Parameter Name	Field Number	Lab Number	Limit of Detection										
Hydrazine		B08LF7	B08LD9	B08L99	B08L34	B08LC4	B08LB4	B08L94					3
07/09/1993	µg/L	CLP 14045	CLP 14046	CLP 14047	CLP 14048	CLP 14049	CLP 14050	CLP 14051					
ASTMD1385		ND*	ND*	ND*	ND*	ND*	ND*	ND*					

copying 9/

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

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

9613473.1541



ENVIRONMENTAL WATER REPORT

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

Date
Agency Identification Number SX-0218-AA
Account No. 3534E

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 June 14, 1993
Date Samples Received at Laboratory June 30, 1993

Analytical Results

Table with columns for Parameter Name, Analysis Date, Units, Method, Prep Method, Lab Number, and results for Hydrazine (82, ND*, ND*, 80., 81., ND*, ND*, ND*)

† 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.)

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

558