

B06307-HEH-001



HANFORD ENVIRONMENTAL  
HEALTH FOUNDATION

0045519

June 16, 1992

CO 18108

Westinghouse Hanford Company  
Office of Sample Management  
MSIN: T6-08



Attn: N. Sequin

300-FF-5 GROUNDWATER COLIFORM ANALYSIS

Following are the coliform bacteria results from the analysis of thirty two ground water samples received in April and May of 1992. Analyses were done in accordance with Standard Methods for the Examination of Water and Wastewater, 17th Ed.

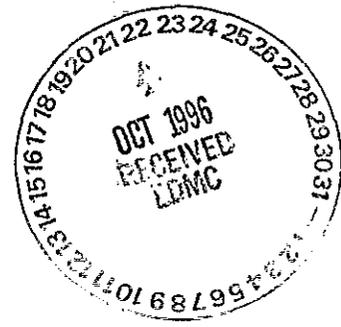
These samples will be returned to you for storage or disposal.

Hanford Environmental Health Foundation certifies that these samples were analyzed in accordance with Westinghouse Hanford Company SOW 1100-EM-1 Groundwater Project Coliform Analysis November 1990 as instructed per letter dated April 27, 1992 to MK Hamilton from JH Kessner.

If you have any questions, please contact Environmental Health Sciences.

*D.A. Sams*  
for DMS  
D. A. Sams  
Environmental Health Sciences

nnt  
Attachment



MS  
7/22/96



**Westinghouse**  
Hanford Company

Hanford Operations and Engineering Contractor  
for the US Department of Energy  
P.O. Box 1870 Richland, Wa. 98322

# NONCONFORMANCE REPORT

Page 1 of 1

No. **B 08490**

1. MFR/ORG: WHC ITEM/MATERIAL NAME: Environmental Sample PART NO. N/A  
 DRAWING/SPEC NO. N/A REV. N/A  
 PROGRAM/PROJECT: 300-FF-5 P.O.W.O. NO. N/A  
 UNUSUAL OCCURRENCE REPORT REQUIRED:  YES  NO SYSTEM/END USE: N/A DATE: 6/15/92

2. DESCRIPTION OF NONCONFORMANCE: 6 original chain of Custody forms were found in the 300-FF-5 1st Qtr 1992 shipping reports, Dusty Butcher custodian.

3. REQUIREMENT VIOLATED: Chain of Custody DOCUMENT: WHC-CM-7-7 REV: 5.1

ORIGINATOR: Michael A. O'Connell ORGANIZATION: 81222 DATE: 6/15/92

4. ASME CODE ITEM(S):  NO  YES. NOTIFY AUTHORIZED INSPECTOR. WHC GAR: N/A

5. CAUSE OF NONCONFORMANCE:  PROCEDURES  PERSONNEL  MATERIALS  EQUIPMENT  OTHERS

REMARKS: D3/SW-01 / PN-003

6. CORRECTIVE ACTION TO ELIMINATE CAUSE: Better tracking of Chain of Custody forms.

INITIATION DATE: Bruce Ford SERIAL NO. \_\_\_\_\_  
 RESPONSIBLE ORG. REP. \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

7. RECOMMENDED DISPOSITION:  ACCEPT  REJECT  REPAIR  REWORK  OTHER

8A. DISPOSITION JUSTIFICATION AND INSTRUCTIONS: Original chain of Custody forms are to be with the sample/ data package. The chain of custody forms for samples B06246, B06249, B062X3, B06240, B062W3 & B06313 were copied and the originals sent to OSM on 6/15/92. No further action is required.

9. ADDITIONAL REVIEWS REQUIRED (WHC ONLY):  YES  NO IF YES, IDENTIFY: \_\_\_\_\_

8B. SUPPLIER ENG. \_\_\_\_\_ SUPPLIER QA \_\_\_\_\_

10. DISPOSITION APPROVAL (WHC ONLY):  APPROVED  DISAPPROVED  OTHER (SEE CONTINUATION SHEET)

L.C. Hulstrom L.C. Hulstrom 7/30/92  
 COGNIZANT ENGINEER DATE  
J.R. McCallum J.R. McCallum 7/30/92  
 COGNIZANT QA ENGINEER DATE

AUTHORIZED INSPECTOR REVIEW \_\_\_\_\_ DATE \_\_\_\_\_

11. ADDITIONAL APPROVALS

NAME	TITLE	DATE	NAME	TITLE	DATE
<u>N/A</u>					

12. DISPOSITION ACTION COMPLETE: N/A QTY. ACCEPT \_\_\_\_\_ QTY. REQ. \_\_\_\_\_ FOLLOW ON NCR

QA LOG NO. EQA-92-029 The issuance and acceptance of this request in no way limits or affects the warranty provisions of the order. This request shall not establish a precedent or obligation to accept similar conditions in the future.

FOLLOW-UP LEVEL: A  B  C

# CORRESPONDENCE DISTRIBUTION COVERSHEET

To: Distribution

From: Environmental Quality Assurance  
H4-16 / 6-8557 / 6-9490

subject: DISTRIBUTION OF NCR #B05446 (EQA-92-030)

## INTERNAL DISTRIBUTION

Approval	Date	Name	Location	w/att
		M. G. Gardner	N3-06	
		L. C. Hulstrom	H4-55 H6-03	
		W. R. Thackaberry	H4-16	
		APA	B5-20	
		QUEST	L4-86	
		EQA File	H4-16	
		K. N. Pool	T6-08	



**Westinghouse  
Hanford Company**

Hanford Operations and Engineering Contractor  
for the US Department of Energy  
P.O. Box 1970 Richland, Wa. 99352

# NONCONFORMANCE REPORT

Page 1 of 13

No. B05446

1. MFR/ORG Env. Field Services Group ITEM/MATERIAL NAME Well 399-8-3 PART NO. Well Surface Seal  
MO-057/WNP-1 DRAWING/SPEC. NO. WHC-S-088 REV. 0  
 PROGRAM/PROJECT 300-FF-5 Well Remediation P.O./W.O. NO. ER-1774  
 UNUSUAL OCCURRENCE REPORT REQUIRED  YES  NO SYSTEM/END USE Groundwater Monitoring DATE 3-19-92

2. DESCRIPTION OF NONCONFORMANCE  
 On 3-11-92, while installing a surface seal on the exterior of well 399-8-3, cement grout entered the well casing through perforations in the casing. Approximately 5-10 cubic ft. of neat cement entered the well and settled to the bottom.

3. REQUIREMENT VIOLATED Quality Indeterminent

DOCUMENT	REV	ZONE/PAF
<u>EFSG</u>	<u>3-19-92</u>	

ORIGINATOR M.G. Gardner ORGANIZATION EFSG DATE 3-19-92

4. ASME CODE ITEM(s)  NO  YES. NOTIFY AUTHORIZED INSPECTOR. WHC QAR N/A

5. CAUSE OF NONCONFORMANCE  
 PROCEDURES  PERSONNEL  MATERIALS  
 EQUIPMENT  OTHERS  
 REMARKS: Well surface seal design requirements are for installation of an 18 ft. surface seal. Construction records showed depth to perforations to be 25 ft., but were found to actually be 17 ft., thus allowing cement to enter well. Improper seal design for this well.

6. CORRECTIVE ACTION TO ELIMINATE CAUSE  
 A downhole borehole video camera survey shall be performed prior to future surface seal installations to determine if casing perforations are present in the seal interval.  
 INITIATION DATE 3-16-92 SERIAL NO. M.G. Gardner  
M.G. Gardner Team Leader 3-19-92  
 RESPONSIBLE ORG. REP. TITLE DATE

7. RECOMMENDED DISPOSITION  ACCEPT  REJECT  REPAIR  REWORK  OTHER

8A. DISPOSITION JUSTIFICATION AND INSTRUCTIONS  
 The surface seal shall be accepted as-is. The seal integrity was not jepordized and meets WAC 173-160 requirements. Immediately upon discovery of the problem, grouting was discontinued and the well was bailed clean, removing the cement. \*The well will be developed at a later date to remove the remainder of cement residue in the well. Previous groundwater analysis will be compared to current groundwater analysis to determine if future groundwater data collected from this well will require flagging.  
HW-27-003, EQ-002-001

9. ADDITIONAL REVIEWS REQUIRED (WHC ONLY)  YES  NO  
 IF YES, IDENTIFY:

8B. SUPPLIER ENG. NA SUPPLIER QA NA

10. DISPOSITION APPROVAL (WHC ONLY)  
 APPROVED  DISAPPROVED  
 OTHER (SEE CONTINUATION SHEET)  
L. C. Hulstrom L. C. Hulstrom 3/31/92  
 COGNIZANT ENGINEER DATE  
W. R. Thackaberry W. R. Thackaberry 3/31/92  
 COGNIZANT QA ENGINEER DATE  
N/A  
 AUTHORIZED INSPECTOR REVIEW DATE

11. ADDITIONAL APPROVALS

NAME	TITLE	DATE	NAME	TITLE	DATE

12. DISPOSITION ACTION COMPLETE See pg. 4  
W.R. Thackaberry 12-9-92 QTY. ACCEPT 1 QTY. REJ. 0  
 NAME DATE

QA LOG NO. EQA-92-030 The issuance and acceptance of this request in no way limits or affects the warranty provisions of the order. This request shall not establish a precedent or obligation to accept similar conditions in the future. FOLLOW-UP LEVEL A B C

**DON'T SAY IT --- Write It!**

DATE: March 31, 1992

TO: NCR B05446 File

FROM: L. C. Hulstrom *L. C. Hulstrom*

Telephone: 6-4034

cc: R. A. Carlson

SUBJECT: Additional Disposition Justification and Instructions

In order to insure that consideration be given to future data gathered from this well it is recommended that the Office of Sample Management (K. N. Pool at T6-08) be sent a copy of this nonconformance report with the instruction that it be placed in the data packages received for groundwater samples taken from this well (399-8-3). This should include any and all future sampling from this well until such time as it is determined that there has been no impact to this well from the neat cement that was added to the bottom during well remediation activities completed on March 11, 1992.

**DON'T SAY IT --- Write It!**

DATE: December 2, 1992

TO: W. R. Thackaberry

FROM: L. C. Hulstrom *LC Hulstrom*

Telephone: 6-4034

cc: M. G. Gardner

SUBJECT: Comparison of well 3-8-3 before & after addition of grout

While installing a surface seal on well 399-8-3 within the 300-FF-5 operable unit, neat cement was inadvertently deposited into the well. The cement entered the well through perforations in the casing, and subsequently settled to the bottom. This occurred on 3/11/92. The incidents were documented in nonconformance report (NCR) #B05446 written by M. G. Gardner. Well 399-8-3 received approximately 5-10 cubic feet of neat cement. Upon discovery of the problem, grouting was discontinued and the well was bailed clean, removing most of the cement.

The NCR for this incident states that a comparison is to be done between samples taken before the incident and samples taken after. This comparison will be used to determine whether or not the data from samples taken from this well should be flagged. Several analytes will be compared to determine the effect, if any, the introduction of the neat cement had on these wells.

Well 399-8-3 was sampled on 1/13/92 (HEIS sample number B01DZ7), and again on 5/6/92 (HEIS sample number B062Y7) as part of the 300-FF-5 project. The analyses run on these samples were for the contaminants of concern for the 300-FF-5 operable unit. These are listed in Table 25 of the Work Plan (DOE/RL 89-14). A comparison of the relevant analytes is given below.

ANALYTE	B01DZ7 1/13/92	B062Y7 5/6/92
*****	*****	*****
pH (lab)	8.1	8.6
CALCIUM	41300	38900
CALCIUM (FILTERED)	42100	38700

As can be seen from the data, the addition of the neat cement to well 399-8-3 had little if any effect on the chemistry within the well. Both calcium and pH are within expected ranges of variation. It can be concluded that for the contaminants of concern for the 300-FF-5 operable unit, there is no detectible contamination from the addition of the neat cement, and data obtained from these wells need not be flagged. Other data such as hardness, total suspended solids and alkalinity were not available because the 300-FF-5 contaminants of concern does not include these analyses.

## Block 12 (continued)

The well was re-developed and video surveyed (see attached well services documentation). The R.I. coordinator has determined that the introduction of neat cement has not resulted in any detectable contamination and that the data from these wells need not be flagged (see attached DSI). No further action required.

W.R. Thackabery                      12-9-92  
W.R. Thackabery                      Date

**WELL SERVICES REQUEST** NCR B05446 pg 5 of 13  
**RESOURCE PROTECTION WELL SERVICES**

**COMPLETED BY NOTIFYING ORGANIZATION**

Well Name/No. 399-8-3	Date Identified 3-12-92	Identified By (Printed Name and Signature) M.G. GARDNER / M.G. Gardner	No. NA
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**DESCRIPTION OF/REASON FOR WELL SERVICES REQUEST**

Item 1: Well requires brushing, redevelopment and a camera run due to cement intrusion into the well during remediation activities.

Item 2: ~~\_\_\_\_\_~~

Item 3: ~~\_\_\_\_\_~~

Above item(s) prevent sample collection: If yes, sample collection required by: _____ Latest Date	1. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	2. Yes <input type="checkbox"/> No <input type="checkbox"/>	3. Yes <input type="checkbox"/> No <input type="checkbox"/>	Notification By M.G. GARDNER
				Title/Organization Team Leader / EFSG
				Signature/Date M.G. Gardner / 4-1-92

**FORWARD TO: GROUNDWATER WELL SERVICES SECTION, ENVIRONMENTAL DIVISION, WHC**

**COMPLETED BY GROUNDWATER WELL SERVICES SECTION**

Notification Received by - Signature/Date: A.L. Schatz 4-2-92	Assigned Priority Levels
WSR No.: 92-409	Item 1: 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/>
Planning Report No.(s): 92-196	Item 2: 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/>
	Item 3: 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/>

**WELL SERVICES PERFORMED**

Item 1: Did brushing, redevelopment and a camera run on well. Cement was cleaned out of well.

Printed Name/Signature/Date: T.L. Hottel / T.L. Hottel 4/16/92

Item 2: \_\_\_\_\_

Printed Name/Signature/Date: \_\_\_\_\_

Item 3: \_\_\_\_\_

Printed Name/Signature/Date: \_\_\_\_\_

Closed Out By: A.L. SCHATZ / A.L. Schatz 4-17-92  
 Printed Name/Signature/Date

**FOLLOWING CLOSURE OF ALL ITEMS, FORWARD COMPLETED COPY TO NOTIFYING ORGANIZATION.**

**WELL SERVICES PLANNING REPORT**

Report No.: 92-196

Well No. 399-8-3	Date Reported 3-12-92	Identified by/Organization: M. G. Gardner/EFSG	WSR No.: 92-409
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**Purpose**  
 Due to cement intrusion into the well while conducting well remediation, the well casing and perforations require brushing and the well developed to remove cement contamination. These activities need to be completed the week of 4-6-92 to facilitate groundwater sample collections.

**Pre-Job Planning**

Date Initiated: 4/3/92	Date Completed: 4/6/92	Date Work Scheduled: 4/7/92	Field Team Personnel Assigned: T.L. Hottell, H.D. Jamison
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Planning Checklist	Historical Data
Data File Review: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N/R Health and Safety: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N/R Comments: <u>See page 2 of this report for info. about ground water analysis.</u>	Data Obtained From: <u>Hanford Wells PNL-6907 V. McGhan and FAR 92-046-1</u>
Facility Generator: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N/R Comments: <u>Generation of waste not anticipated.</u>	Well Completion Date: <u>7/51</u> Construction Depth: <u>94'</u> Remediated Depth/Description: <u>Sand/Bent. plug to 71.2'</u>
Purgewater Management (EII 10.3): <input checked="" type="checkbox"/> Y <input type="checkbox"/> N/R Comments: <u>Purgewater containment not required.</u>	Casing Size/Type: <u>8" I.D./CS</u> Casing Set At: <u>102'</u> <u>N/A</u> <u>N/A</u>
Health Physics: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N/R HPT Coverage: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N/R Comments: <u>Follow RWP D-008 Rev. 1. Initial coverage is required for work.</u>	Casing Perforations Schedule: <u>unknown</u> Interval: <u>25-80'</u> <u>unknown</u> <u>90-99'</u>
Operations Support: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N/R Quality Assurance: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N/R	Well Screen(s) Type: <u>N/A</u> Interval: <u>N/A</u> <u>N/A</u> <u>N/A</u>
Impact Level: <u>3</u> QA Concurrence: <u>WRT 4-29-92</u> Phone Concurrence: <u>CC Mail/WRF 4-6</u>	Last Recorded Depth to Water: <u>50 93'</u> Date: <u>2/25/92</u> Last Recorded Depth to Bottom: <u>71 24'</u> Date: <u>1/7/92</u>
	Pump Installed - Type/Make/Model: <u>Pos. Displace - Hydrostar</u> Pump Length to Intake: <u>2 25'</u> Discharge Tubing - Type/Size: <u>3/4" SS</u> Pump Intake Set At (Depth): <u>56 05'</u>
	<b>Special Equipment/Material Requirements</b> <u>None</u>

**Special Instructions:** Prior to initiating work activities, conduct a pre-job tailgate meeting discussing task requirements and safety concerns for the scheduled work. All tasks conducted for this planning report are to be performed in accordance with EII-6.4. (Note: These activities address action items identified by NCR B05446 and are required to be completed as part of the close-out of the NCR).

Planning Performed By: <u>M. G. Gardner</u> Title: <u>Team Leader</u> Signature: <u>M.G. Gardner</u>	Reviewed By: <u>A. L. Schatz</u> Title: <u>Plant Engineer</u> Date: <u>4-6-92</u> Signature: <u>A.L. Schatz</u>
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WELL SERVICES PLANNING REPORT  
TEXT CONTINUATION PAGE

Well No.  
399-8-3

Pre-Job Planning

Cont. of Report No.  
92-196

Remarks

The chemical data history for this well does not show any elevated levels of hazardous constituents.

The sampling pump system is currently removed from the well.

Verify all downhole equipment has been deconned then brush the innerwall of the casing and perforations. Operator discretion will be used to determine the extent of brushing. Following satisfactory completion of brushing, debris will be removed from well by use of a sandpump and/or bailer, taking care to not remove any of the plug materials used to shorten the monitored interval. Debris removal will continue until "shortened" depth is restored (as feasible). Next, perform development of the well. A pump with an adequate flow volume is to be used when developing the well. Effluent and solids removed from the well during development are not required to be contained and may be placed on the ground at the well. A borehole camera survey will be conducted and video taped following development of this well at the earliest possible date. The purpose of the camera survey is to determine if there is any visible plugging of the perforations as a result of the cement intrusion during well remediation activities. Following completion of the camera survey, the sample pump shall be re-installed at its original depth unless otherwise directed by the cognizant engineer.

N  
X

Planning Performed By: M. G. Gardner

Title: Team Leader

Signature: M.G. Gardner

Reviewed By: A. L. Schatz

Title: Plant Engineer

Signature: A.L. Schatz

Date: 4-3-92

## FIELD ACTIVITY REPORT - WELL SERVICES

Date 4-7-92	Well No. 399-8-3	Rig Type/Model Pump Setting	Rig No. .526	Contract/Work Order No. N/A	Report No. 91-196-01
Purpose Perform comprehensive well maintenance. Brushing of the well casing. Due to cement intrusion into well.				Reference 300-F1-5	Location 300-Area

HISTORICAL DATA			PUMP SYSTEM CONFIGURATION		
			Pre-Maintenance	Post-Maintenance	
Construction Depth	94'		Pump Type	/	
Casing Size	Type	Set At	Pump Model		
8"	C/S	102'	Tubing Size/Type		
Casing Perforations Schedule	Interval		Length-Bottom of Tubing to Pump Intake		
Unknown	25-80'		Tubing Length		
Well Screen(s) Type	Interval		Length-Top of Tubing to Reference Point		
N/A	N/A		Pump Intake Set at (Depth)		
Last Recorded Depth-to-Water	Last Recorded Depth-to-Bottom		Reference/Measuring Point		
50.93'	71.25'		Top-of-Casing		
Current Depth-to-Water	Current Depth-to-Bottom				
52.60'	72.62'				

Start Time <u>1000</u> End Time <u>1100</u> Time _____ Contract Time _____ Total Time <u>1 hr.</u>	Personnel T.L. Hottell M.M B-Simmons T. Bruno (HPT)	Materials Used  
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**Description of Operations/Remarks**

The rig was inspected and a tailgate safety meeting was held. Rigged up on the well. Put on 8" brushes, brush the innerwall of the casing until there wasn't no cement coming back on the brushers. A DTB was taking (72.62') only had .30 of fill in the well so didn't us the sandpump. The HPT surveyed the debris, tools and the rig and found no contamination. The well was the secured before we left.

Report By <u>T.L. Hottell</u> Title <u>Engineering Tech.</u> Signature <u>T.L. Hottell</u>	Reviewed By <u>A.L. SCHATZ</u> Title <u>Plant Eng.</u> Date <u>4-16-92</u> Signature <u>A.L. Schatz</u>
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## FIELD ACTIVITY REPORT - WELL SERVICES

Date 4-B-92	Well No. 399-8-3	Rig Type/Model Pump Setting	Rig No. S26	Contract/Work Order No. N/A	Report No. 91-194-02
Purpose Perform comprehensive well maintenance. Redevelop the well. Due to cement intrusion into well.				Reference 300-FF-5	Location 300-Area

HISTORICAL DATA			PUMP SYSTEM CONFIGURATION		
			Pre-Maintenance	Post-Maintenance	
Construction Depth	94'		/		
Casing Size	Type	Set At			
8"	C/S	102'			
Casing Perforations	Schedule	Interval			
Unknown		25-80'			
Well Screen(s) Type	Interval				
N/A	N/A				
Last Recorded Depth-to-Water	Last Recorded Depth-to-Bottom				
50.93'	72.62'				
Current Depth-to-Water	Current Depth-to-Bottom		Reference/Measuring Point		
52.46'	72.62'		Top-of-Casing		

Start Time <u>0800</u> End Time <u>1100</u> Time <u>NA</u> Contract Time <u>NA</u> Total Time <u>3 Hr.</u>	Personnel T.L. Hottell H.M B-Simmons T. Bruno (HPT)	Materials Used  
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**Description of Operations/Remarks**

The rig was inspected and a tailgate safety meeting was held. Rigged up on the well. The pump was ran to the bottom of the well. The pumping manifold was attached and the pump was started. The pump was left in on spot for 20 min. or until the NTU's was below 5 NTU's and the pump was raised 2 ft. at a time. This process continued until the was at 54 ft. The pump intake was ran back down to 57 ft. This is were the pump intake will be set at, pump there until the NTU's was below 5 NTU's. The pump was then removed from the well. The HPT surveyed the tubing, tools and the rig and found no contamination. The well was the secured before we left.

Report By <u>T.L. Hottell</u> Title <u>Engineering Tech.</u> Signature <u>T.L. Hottell</u>	Reviewed By <u>A.L. SCHATZ</u> Title <u>Plant Eng.</u> Date <u>4-16-92</u> Signature <u>A.L. Schatz</u>
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FIELD ACTIVITY REPORT - BOREHOLE TELEVISION SURVEY

Date 4/8/92	Well No. 399-8.3	Location North of 300A	Report No. 92-196-02
Casing Size: 8"	Type: C/S	Set At: 102	Screened/Perf Interval
Last Recorded Depth to Water: 52.46 Date: 4-8-92			Construction Depth 94'
			Ground Surface Elev (ft) 392.15
Top of Casing Elev (ft) 394.68			

PURPOSE Determine condition and status of casing, screens and/or perforations as applicable.	Start Time 1300	End Time 1330
Television System Used: WHC - VAN	Personnel TL Hottell M. M. B. Simmons T. Bruno	
CAMERA/CABLE DECONTAMINATED PRIOR TO USE: Date 4-8-92 By TL Hottell		

INSTRUCTIONS:  
 Measurements are to be recorded in feet and referenced to a common datum of ground surface.  
 Entries may be YES, NO, NA = Not applicable, ND = Not determined or OTHER.  
 Explain entries of OTHER in COMMENTS Section.

- GROUND SURFACE DATUM**--Establish ground surface datum in feet below top of casing. The camera counter, (or display equivalent) is set to zero, DATUM (ft below top of casing): 2.53 ft
- VADOSE ZONE CASING**--Examine vadose zone casing for evidence of damage, corrosion, scale or rust.  
 Casing parted/damaged YES Comments Casing has a bead in it around 47ft  
 Corrosion/scale/rust NO Comments NA
- SUBMERGED CASING**--Examine submerged casing for evidence of damage, corrosion, scale or rust.  
 Casing parted/damaged NO Comments NA  
 Corrosion/scale/rust NO Comments NA
- PERFORATIONS (if applicable)**--Examine perforations for condition and interval.  
 Depth Top: 15.09 Depth Bottom NA Cuts/rd/ft 3/4 cuts/rd/ft  
 Condition, (clean corroded, slots open, slots obscured, etc.)
- SCREEN (if applicable)**--Examine screen for condition and interval.  
 Depth Top NA Depth Bottom NA Type NA  
 Condition, (clean, corroded, slots open, slots obscured, etc.) NA
- TOP OF WATER**--Determine depth of water and interface condition.  
 Depth 49.54 Floating debris NA Surface appearance NA  
 Comments
- WATER QUALITY**--Record water quality observed during survey.  
 Clear V Murky NA Dislodged Scale NA Suspended debris NA  
 Comments NA
- HOLE BOTTOM**--Examine borehole bottom as observed during survey.  
 Measured depth 70.09 Appearance, (debris, silt, etc.) silt  
 Comment NA
- COMMENTS** NA

Report By <u>TL Hottell</u>	Reviewed By <u>A.L. SCHATZ</u>
Title <u>Eng Tech</u>	Title <u>Plant Eng.</u> Date <u>4-16-92</u>
Signature <u>TL Hottell</u>	Signature <u>A.L. Schatz</u>

FIELD ACTIVITY REPORT - BOREHOLE TELEVISION SURVEY

Date 4-10-92	Well No. 399-8.3	Location N of 300 A	Report No. 92-196-024
Casing Size: 8"	Type: C/S	Set At: 102'	Screened Intervals Perf Interval
Last Recorded Depth to Water: 52.46		Date: 4.9-92	Construction Depth 94'
		Top of Casing Elev (ft) 394.68	Ground Surface Elev (ft) 392.15
PURPOSE Determine condition and status of casing, screens and/or perforations as applicable.			Start Time 08:30
Television System Used: WHC-Vgn			End Time 08:45
CAMERA/CABLE DECONTAMINATED PRIOR TO USE: Date 4-10-92 By D. Hollingsworth			Personnel T.L. Hottel D. Hollingsworth

INSTRUCTIONS:

Measurements are to be recorded in feet and referenced to a common datum of ground surface. Entries may be YES, NO, NA = Not applicable, ND = Not determined or OTHER. Explain entries of OTHER in COMMENTS Section.

- GROUND SURFACE DATUM**--Establish ground surface datum in feet below top of casing. The camera counter, (or display equivalent) is set to zero. DATUM (ft below top of casing): 2.53 ft
- VADOSE ZONE CASING**--Examine vadose zone casing for evidence of damage, corrosion, scale or rust.  
Casing parted/damaged NA <sup>11/6</sup> Yes Comments Casing has a bend in it ground 47ft  
Corrosion/scale/rust NO Comments NA
- SUBMERGED CASING**--Examine submerged casing for evidence of damage, corrosion, scale or rust.  
Casing parted/damaged NO Comments NA  
Corrosion/scale/rust NO Comments NA
- PERFORATIONS (if applicable)**--Examine perforations for condition and interval.  
Depth Top 15.09 Depth Bottom 70 ft Cuts/rdf/t 3/4 cut /rd/ft  
Condition, (clean/corroded, slots open, slots obscured, etc.)
- SCREEN (if applicable)**--Examine screen for condition and interval.  
Depth Top NA Depth Bottom NA Type NA  
Condition, (clean, corroded, slots open, slots obscured, etc.) NA
- TOP OF WATER**--Determine depth of water and interface condition.  
Depth 49.54 Floating debris NO Surface appearance Clean  
Comments NA
- WATER QUALITY**--Record water quality observed during survey.  
Clear ✓ Murky NA Dislodged Scale NA Suspended debris NA  
Comments NA
- HOLE BOTTOM**--Examine borehole bottom as observed during survey.  
Measured depth 70.09 Appearance, (debris, silt, etc.) Silt  
Comment NA
- COMMENTS**

Report By <u>T.L. Hottel</u>	Reviewed By <u>A.L. SCHATZ</u>
Title <u>Eng Tech</u>	Title <u>Plant Eng.</u> Date <u>4-16-92</u>
Signature <u>T.L. Hottel</u>	Signature <u>A.L. Schatz</u>

**FIELD ACTIVITY REPORT -  
WELL SERVICES**

Date 4-10-92	Well No. 399-B-3	Rig Type/Model . Pump Setting	Rig No. 526	Contract/Work Order No. N/A	Report No. 92-196-05
Purpose Re-installed the sampling pump in well. Due to cement intrusion into well, pump was removed for cement setting.				Reference 300-FF-5	Location 300-Area

HISTORICAL DATA		PUMP SYSTEM CONFIGURATION		
Construction Depth	94'		Pre-Maintenance	Post-Maintenance
Casing Size	Type 8" C/S	Set At 102"	Pump Type	Pos. Displ.
Casing Perforations Schedule	Interval Unknown 25-80'		Pump Model	Hydrostar 8000
Well Screen(s) Type	Interval N/A N/A		Tubing Size/Type	3/4" 5/8
			Length-Bottom of Tubing to Pump Intake	2.25
			Tubing Length	53.80
Last Recorded Depth-to-Water	Last Recorded Depth-to-Bottom		Length-Top of Tubing to Reference Point	0
52.46'	72.62'		Pump Intake Set at (Depth)	56.05
Current Depth-to-Water	Current Depth-to-Bottom		Reference/Measuring Point	
52.40'	72.62'		Top-of-Casing	
Start Time	Personnel		Materials Used	
0900	T.L. Hottell		1-2' 3/4" tubing	
End Time	D. Hollingsworth			
Time				
Contract Time				
Total Time				

Description of Operations/Remarks

The rig was inspected and a tailgate safety meeting was held. Rigged up on the well. Re-installed the sampling pump in accordance with EII-6.4 WHC-CH-7-7 Appendix B. The well casing was <sup>extended</sup> on this well. The well was secured before we left.

ALS  
4-16-92

Report By <u>T.L. Hottell</u>	Reviewed By <u>A.L. SCHATZ</u>
Title <u>Engineering Tech</u>	Title <u>Plant Eng.</u> Date <u>4-16-92</u>
Signature <u>T.L. Hottell</u>	Signature <u>A.L. Schatz</u>

**FIELD ACTIVITY REPORT -  
TUBULAR GOODS TALLY**

Date 4-10-92 Well No. 399-8-3 Continuation of Report No. 92-196-05

Jt. No.	Length (in feet)								
1	13.82	21		41		61		81	
2	19.98	22		42		62		82	
3	20.00	23		43		63		83	
4	2.00	24		44		64		84	
5		25		45		65		85	
6		26		46		66		86	
7		27		47		67		87	
8		28		48		68		88	
9		29		49		69		89	
10		30		50		70		90	
11		31		51		71		91	
12		32		52		72		92	
13		33		53		73		93	
14		34		54		74		94	
15		35		55		75		95	
16		36		56		76		96	
17		37		57		77		97	
18		38		58		78		98	
19		39		59		79		99	
20		40		60		80		100	
TOTAL	55.80	TOTAL		TOTAL		TOTAL		TOTAL	

REMARKS

Total Pump Length= 2.25  
 Length from bottom of tubing to pump intake = 2.25  
 Length from Top-of-Tubing to reference point= 0  
 The Length from the reference point to the pump intake= 58.05  
 The Length from the reference point to the bottom of the pump= 58.05

Total for Page:	55.80	FT
Total for Page:		FT
Total for Page:		FT
Total for Page:		FT
Total (All)	55.80	FT

TALLY PAGE NO. 1

Report By T.L. Hattell  
 Title Engineering Tech.  
 Signature T.L. Hattell

Reviewed By A.L. SCHATZ  
 Title Plant Eng. Date 4-16-92  
 Signature A.L. Schatz

June 16, 1992

CO 18108

<u>Date Received</u>	<u>Sample No.</u>	<u>Total &amp; Fecal Coliform/100 ml</u>
4/29/92	B06307	<2.2
4/29/92	B062T4	<2.2
4/29/92	B062T7	<2.2
4/29/92	B062T1	<2.2
4/30/92	B06310	<2.2
4/30/92	B062Q1	<2.2
5/01/92	B06204	<2.2
5/01/92	B062PB	<2.2
5/01/92	B062Q7	<2.2
5/04/92	B062Z2	<2.2
5/06/92	B062X3	<2.2
5/06/92	B06313	<2.2
5/06/92	B062Y9	<2.2
5/06/92	B062W3	<2.2
5/06/92	B062Y6	<2.2
5/06/92	B062Y0	<2.2
5/11/92	B062S1	<2.2
5/11/92	B06316	<2.2
5/11/92	B062S8	<2.2
5/11/92	B062R0	<2.2
5/11/92	B062R4	<2.2
5/12/92	B062V5	<2.2
5/12/92	B062W0	<2.2
5/12/92	B062R8	<2.2
5/12/92	B06319	<2.2
5/12/92	B062P2	<2.2
5/13/92	B062W7	<2.2
5/13/92	B062X0	<2.2
5/13/92	B062X7	<2.2
5/20/92	B062P5	<2.2
5/20/92	B06322	<2.2
5/20/92	B062S5	<2.2



HANFORD ENVIRONMENTAL  
HEALTH FOUNDATION

July 8, 1992

CO 18108  
(Revised)

Westinghouse Hanford Company  
Office of Sample Management  
MSIN: T6-08

Attn: N. Sequin



300-FF-5 GROUNDWATER COLIFORM ANALYSIS

Following are the coliform bacteria results from the analysis of thirty two ground water samples received in April and May of 1992. Analyses were done in accordance with Standard Methods for the Examination of Water and Wastewater, 17th Ed.

These samples will, be returned to you for storage or disposal.

Hanford Environmental Health Foundation certifies that these samples were analyzed in accordance with Westinghouse Hanford Company SOW 1100-EM-1 Groundwater Project Coliform Analysis November 1990 as instructed per letter dated April 27, 1992 to MK Hamilton from JH Kessner.

If you have any questions, please contact Environmental Health Sciences.

*Douglas Sams*  
D. A. Sams  
Environmental Health Sciences

nnt  
Attachment

June 16, 1992

CO 18108

<u>Date Received</u>	<u>Sample No.</u>	<u>Total &amp; Fecal Coliform/100 ml</u>
4/29/92	B06307	<2.2
4/29/92	B062T4	<2.2
4/29/92	B062T7	<2.2
4/29/92	B062T1	<2.2
4/30/92	B06310	<2.2
4/30/92	B062Q1	<2.2
5/01/92	B06204	<2.2
5/01/92	B062PB	<2.2
5/01/92	B062Q7	<2.2
5/04/92	B062Z2	<2.2
5/06/92	B062X3	<2.2
5/06/92	B06313	<2.2
5/06/92	B062Y9	<2.2
5/06/92	B062W3	<2.2
5/06/92	B062Y6	<2.2
5/06/92	B062Y0	<2.2
5/11/92	B062S1	<2.2
5/11/92	B06316	<2.2
5/11/92	B062S8	<2.2
5/11/92	B062R0	<2.2
5/11/92	B062R4	<2.2
5/12/92	B062V5	<2.2
5/12/92	B062W0	<2.2
5/12/92	B062R8	<2.2
5/12/92	B06319	<2.2
5/12/92	B062P2	<2.2
5/13/92	B062W7	<2.2
5/13/92	B062X0	<2.2
5/13/92	B062X7	<2.2
5/20/92	B062P5	<2.2
5/20/92	B06322	<2.2
5/20/92	B062S5	<2.2

Westinghouse  
Hanford Company

# CHAIN OF CUSTODY

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Project Designation/Sampling Location 300-FF-5

Ice Chest No.

Bill of Lading/Airbill No. N/A

Method of Shipment HAND DELIVER

Shipped to HEHF

Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045

Collection Date 5-6-92

Field Logbook No. EFL-1006

Offsite Property No. N/A

## Sample Identification

BO 62X3 *ROL 5/6/92*  
1, 250ml  $\frac{1}{7}$  P, WATER, COLIFORM (Na2S2O3)  
125ml

Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: <i>Phyllis D. Lee K. D. Lee</i>	Received by: <i>Phyllis D. Lee K. D. Lee</i>	Date/Time: <i>5/6/92 1930</i>	
Relinquished by: <i>N/A</i>	Received by: <i>RA. Adams (HEHF)</i>	Date/Time: <i>5/6/92 15:25</i>	
Relinquished by:	Received by:	Date/Time:	
Relinquished by:	Received by:	Date/Time:	
Final Sample Disposition			
Disposal Method:	Disposed by:	Date/Time:	
Comments:			

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LABORATORY  
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Westinghouse  
Hanford Company

# CHAIN OF CUSTODY

Custody Form Initiator **PH BUTCHER**

Company Contact **PH BUTCHER**

Project Designation/Sampling Locations **300-FF-5**

Ice Chest No.

Bill of Lading/Airbill No. **N/A**

Method of Shipment **HAND DELIVER**

Shipped to **HEHF**

Possible Sample Hazards/Remarks **N/A**

Telephone **(509)376-5045**

Collection Date **5-6-92**

Field Logbook No. **EFL-1006**

Offsite Property No. **N/A**

## Sample Identification

**BO 6313** *KOL 5/6/92*  
**1, 250ml, P, WATER, COLIFORM (Na2S2O3)**  
*125ml*



Field Transfer of Custody

Chain of Possession

(Sign and Print Names)

Relinquished by:	Received by:	Date/Time:
<i>Kimberly P. Lee K.D. Coe</i>	<i>5/6/92 [Signature]</i>	<i>5/6/92 19:30</i>
<i>N/A</i>	<i>PA. Adams (HEHF)</i>	<i>5/6/92 15:25</i>
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

## Final Sample Disposition

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

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Hanford Company

# CHAIN OF CUSTODY

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Project Designation/Sampling Locations 300-FF-5

Ice Chest No.

Bill of Lading/Airbill No. N/A

Method of Shipment HAND DELIVER

shipped to HEHF

Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045

Collection Date 5/6/92

Field Logbook No. EFL-1019 p.1

Offsite Property No. N/A

## Sample Identification

~~80-69-164~~ <sup>5/6/92</sup> B062Y9  
1, 250ml, P, WATER, COLIFORM (Na2S2O3)  
125ml

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

Relinquished by:	Received by:	Date/Time:
<i>Robert D. Lee K.O. Lee</i>	<i>D.A. Adams (HEHF)</i>	5/6/92 15:25
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:
Comments:		

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Westinghouse  
Hanford Company

# CHAIN OF CUSTODY

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Project Designation/Sampling Location 300-FF-5

Ice Chest No.

Bill of Lading/Airbill No. N/A

Method of Shipment HAND DELIVER

Shipped to HEHF

Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045

Collection Date 5-6-92

Field Logbook No. EFL-1006

Offsite Property No. N/A

## Sample Identification

BO 62W3

1, 250ml, P, WATER, COLIFORM (Na2S2O3)

1, 125ml

## Field Transfer of Custody

## Chain of Possession

(Sign and Print Names)

Relinquished by:	Received by:	Date/Time:
<i>Harley D. Lee, K.D. Lee</i>	<i>KPS K.D. Lee</i>	<i>5/6/92 14:30</i>
<i>N/A</i>	<i>RA. Stone (HEHF)</i>	<i>5/6/92 15:25</i>
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

## Final Sample Disposition

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

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Hanford Company

# CHAIN OF CUSTODY

Custody Form Initiator **PH BUTCHER**  
Company Contact **PH BUTCHER**  
Project Designation/Sampling Location **300-FF-5**  
Ice Chest No.  
Bill of Lading/Airbill No. **N/A**  
Method of Shipment **HAND DELIVER**  
Shipped to **HEHF**  
Possible Sample Hazards/Remarks **N/A**

Telephone **(509)376-5045**  
Collection Date **5/6/92**  
Field Logbook No. **EFL-1019 p.1.**  
Offsite Property No. **N/A**

## Sample Identification

**BO 6246** *col 5/6/92*  
**1, 250ml, P, WATER, COLIFORM (Na2S2O3)**  
**150ml**

Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: <i>Andy P. Lee</i>	Received by: <i>D.A. Adams (HEHF)</i>	Date/Time: <i>5/6/92 15:25</i>	
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:	
Comments:			

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Hanford Company

# CHAIN OF CUSTODY

Custody Form Initiator PH BUTCHER  
Company Contact PH BUTCHER  
Project Designation/Sampling Locations 300-FF-5  
Ice Chest No.  
Bill of Lading/Airbill No. N/A  
Method of Shipment HAND DELIVER  
Shipped to HEHF  
Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045  
Collection Date 5-6-92  
Field Logbook No. EFL-1006  
Offsite Property No. N/A

## Sample Identification

BO 62 Y0 *incl 5/6/92*  
1, -250ml, P, WATER, COLIFORM (Na2S2O3)  
*125 ml*

<input type="checkbox"/> Field Transfer of Custody		Chain of Possession		(Sign and Print Names)
Relinquished by: <i>Robert Lee K.D. Lee</i>	Received by: <i>P.A. Adams (HEHF)</i>	Date/Time: <i>5/6/92 15:25</i>		
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:		
Comments:				

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HANFORD ENVIRONMENTAL  
HEALTH FOUNDATION

FACSIMILE SERVICES  
Environmental Health Sciences  
747B/700

NEC/NEFAX BIT 5  
FTS 444-4021  
COMM. (509) 376-4021

FAX VERIFICATION NUMBER  
FTS 444-7269  
COMM. (509) 376-7269

Date 5/7/92

TO Jeanette Duncan

FAX Number 3-3992

Company WHC

Message  
Verification  
Number \_\_\_\_\_

Telephone -

Location OSM/2W

FROM Douglas Arma

FAX Number (509) 376-4021

Company HEHF

Telephone 6-6985

This transmittal consists of 7 pages (including cover sheet)

Approved \_\_\_\_\_

Use this space for a short message.

*Chain of custody for H<sub>2</sub>O samples received 5/6/92.*

RECORD COPY

Westinghouse  
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Project Designation/Sampling Locations 300-FF-5

Ice Chest No.

Bill of Lading/Airbill No. N/A

Method of Shipment HAND DELIVER

Shipped to HEHF

Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045

Collection Date 4-30-92

Field Logbook No. EFL-1004

Offsite Property No. N/A

Sample Identification

BO 6310

1, 250ml, P, WATER, COLIFORM (Na2S2O3)

Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: <i>K. Trapp / K. Trapp</i>	Received by: <i>DA. Stone (HEHF)</i>	Date/Time: <i>4/30/92 1355</i>	
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:
Comments:		

Westinghouse  
Hanford Company

**CHAIN OF CUSTODY**

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Project Designation/Sampling Locations 300-FF-5

Ice Chest No.

Bill of Lading/Airbill No. N/A

Method of shipment HAND DELIVER

Shipped to HEHF

Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045

Collection Date 4-29-92

Field Logbook No. EFL-1006

Offsite Property No. N/A

Sample Identification

BO 6307

1, 250ml, P, WATER, COLIFORM (Na2S2O3)



Field Transfer of Custody

Chain of Possession

(Sign and Print Names)

Relinquished by:	Received by:	Date/Time:
<i>Phyllis Lee F. D. Lee</i>	<i>DA. Adams (HEHF)</i>	<i>4/29/92 1330</i>
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:
Comments:		

House  
and Company

### CHAIN OF CUSTODY

Study Form Initiator **PH BUTCHER**  
 Company Contact **PH BUTCHER**  
 Project Designation/Sampling Locations **300-FF-5**  
 Ice Chest No.  
 Bill of Lading/Airbill No. **N/A**  
 Method of Shipment **HAND DELIVER**  
 Shipped to **HEHF**  
 Possible Sample Hazards/Remarks **N/A**

Telephone **(509)376-5045**  
 Collection Date ~~4-28-92~~ **4-29-92** *see notes*  
 Field Logbook No. **EFL-1006**  
 Offsite Property No. **N/A**

Sample Identification

**3062T4**  
**1, 250ml, P, WATER, COLIFORM (Na2S2O3)**

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

Relinquished by: <i>L.D. Walker</i> <i>LD Walker</i>	Received by: <i>Fredy D. Lee K.D. Lee</i>	Date/Time: <i>4/29/92 1310</i>
Relinquished by: <i>Fredy D. Lee K.D. Lee</i>	Received by: <i>DA. Adams (HEHF)</i>	Date/Time: <i>4/29/92 1330</i>
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition

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

Comments:

Wastingshouse  
Stanford Company

### CHAIN OF CUSTODY

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Project Designation/Sampling Locations 300-FF-5

Ice Chest No.

Bill of Lading/Airbill No. N/A

Method of Shipment HAND DELIVER

Shipped to HEHF

Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045

Collection Date ~~4-28-92~~ 4-29-92 LW 4-29-92

Field Logbook No. EFL-1006

Offsite Property No. N/A

#### Sample Identification

BO 6277  
1, 250ml, P, WATER, COLIFORM (Na2S2O3)

#### Field Transfer of Custody

#### Chain of Possession

(Sign and Print Names)

Relinquished by: <i>Kathy A. Lee</i> K.A. Lee	Received by: <i>D.A. Adams</i> (HEHF)	Date/Time: 4/29/92 13:30
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:
------------------	--------------	------------

Comments:

Westinghouse  
Hanford Company

**CHAIN OF CUSTODY**

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Project Designation/Sampling Locations 300-FF-5

Ice Chest No.

Bill of Lading/Airbill No. N/A

Method of Shipment HAND DELIVER

Shipped to HEHF

Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045

Collection Date 4-29-92

Field Logbook No. EFL-1006

Offsite Property No. N/A

Sample Identification

B06271

1, 250ml, P, WATER, COLIFORM (Na2S2O3)

Field Transfer of Custody		Chain of Possession	(Sign and Print Names)
Relinquished by: <i>Wesley A. Lee R. J. Lee</i>	Received by: <i>DA. Adams (HEHF)</i>	Date/Time: <i>4/29/92 1330</i>	
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:	
Comments:			