

# START

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## ENGINEERING CHANGE NOTICE

Page 1 of 2

1. ECN 168784

Proj. ECN

2. ECN Category (mark one)		Supplemental <input type="checkbox"/>	Change ECN <input type="checkbox"/>	Supersedeure <input type="checkbox"/>
Cancel/Void <input type="checkbox"/>	Direct Revision <input checked="" type="checkbox"/>	Temporary <input type="checkbox"/>	Discovery <input type="checkbox"/>	
3. Originator's Name, Organization, MSIN, and Telephone No. M. T. Stankovich RR/ERE/100 RI/H4-55/6-2493 81221/PH1AA			4. Date June 3, 1992	
5. Project Title/No./Work Order No. 100-FR-1 Source Sampling		6. Bldg./Sys./Fac. No. 132-F-1 (141-F)		7. Impact Level 3Q
8. Document Number Affected (include rev. and sheet no.) WHC-SD-EN-AP-094, Rev 0		9. Related ECN No(s). NA		10. Related PO No. NA
11a. Modification Work <input type="checkbox"/> Yes (fill out Blk. 11b) <input checked="" type="checkbox"/> No (NA Blks. 11b, 11c, 11d)	11b. Work Package Doc. No. NA	11c. Complete Installation Work NA	11d. Complete Restoration (Temp. ECN only) NA	
Cog. Engineer Signature & Date			Cog. Engineer Signature & Date	

12. Description of Change  
Incorporate regulator comments.



13a. Justification (mark one)	Criteria Change <input checked="" type="checkbox"/>	Environmental <input type="checkbox"/>	Facilitate Const. <input type="checkbox"/>
Design Error/Omission <input type="checkbox"/>	Design Improvement <input type="checkbox"/>	As-Found <input type="checkbox"/>	Const. Error/Omission <input type="checkbox"/>

13b. Justification Details  
As required to complete TPA milestones.

14. Distribution (include name, MSIN, and no. of copies)  
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# ENGINEERING CHANGE NOTICE

<b>15. Design Verification Required</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>16. Cost Impact</b> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; text-align: center;"><b>ENGINEERING</b></td> <td style="width: 50%; text-align: center;"><b>CONSTRUCTION</b></td> </tr> <tr> <td>Additional Savings <input type="checkbox"/> \$ <input type="checkbox"/> NA</td> <td>Additional Savings <input type="checkbox"/> \$ <input type="checkbox"/> NA</td> </tr> </table>	<b>ENGINEERING</b>	<b>CONSTRUCTION</b>	Additional Savings <input type="checkbox"/> \$ <input type="checkbox"/> NA	Additional Savings <input type="checkbox"/> \$ <input type="checkbox"/> NA	<b>17. Schedule Impact (days)</b> Improvement <input type="checkbox"/> NA Delay <input type="checkbox"/>
<b>ENGINEERING</b>	<b>CONSTRUCTION</b>					
Additional Savings <input type="checkbox"/> \$ <input type="checkbox"/> NA	Additional Savings <input type="checkbox"/> \$ <input type="checkbox"/> NA					



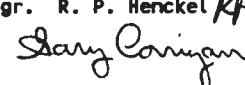
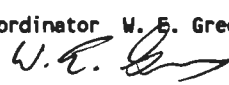


**18. Change Impact Review:** Indicate the related documents (other than the engineering documents identified on Side 1) that will be affected by the change described in Block 12. Enter the affected document number in Block 19.

SDD/DD <input type="checkbox"/>	Seismic/Stress Analysis <input type="checkbox"/>	Tank Calibration Manual <input type="checkbox"/>
Functional Design Criteria <input type="checkbox"/>	Stress/Design Report <input type="checkbox"/>	Health Physics Procedure <input type="checkbox"/>
Operating Specification <input type="checkbox"/>	Interface Control Drawing <input type="checkbox"/>	Spares Multiple Unit Listing <input type="checkbox"/>
Criticality Specification <input type="checkbox"/>	Calibration Procedure <input type="checkbox"/>	Test Procedures/Specification <input type="checkbox"/>
Conceptual Design Report <input type="checkbox"/>	Installation Procedure <input type="checkbox"/>	Component Index <input type="checkbox"/>
Equipment Spec. <input type="checkbox"/>	Maintenance Procedure <input type="checkbox"/>	ASME Coded Item <input type="checkbox"/>
Const. Spec. <input type="checkbox"/>	Engineering Procedure <input type="checkbox"/>	Human Factor Consideration <input type="checkbox"/>
Procurement Spec. <input type="checkbox"/>	Operating Instruction <input type="checkbox"/>	Computer Software <input type="checkbox"/>
Vendor Information <input type="checkbox"/>	Operating Procedure <input type="checkbox"/>	Electric Circuit Schedule <input type="checkbox"/>
OM Manual <input type="checkbox"/>	Operational Safety Requirement <input type="checkbox"/>	ICRS Procedure <input type="checkbox"/>
FSAR/SAR <input type="checkbox"/>	IEFD Drawing <input type="checkbox"/>	Process Control Manual/Plan <input type="checkbox"/>
Safety Equipment List <input type="checkbox"/>	Cell Arrangement Drawing <input type="checkbox"/>	Process Flow Chart <input type="checkbox"/>
Radiation Work Permit <input type="checkbox"/>	Essential Material Specification <input type="checkbox"/>	Purchase Requisition <input type="checkbox"/>
Environmental Impact Statement <input type="checkbox"/>	Fac. Proc. Samp. Schedule <input type="checkbox"/>	<input type="checkbox"/>
Environmental Report <input type="checkbox"/>	Inspection Plan <input type="checkbox"/>	<input type="checkbox"/>
Environmental Permit <input type="checkbox"/>	Inventory Adjustment Request <input type="checkbox"/>	<input type="checkbox"/>

**19. Other Affected Documents:** (NOTE: Documents listed below will not be revised by this ECN.) Signatures below indicate that the signing organization has been notified of other affected documents listed below.

Document Number/Revision	Document Number/Revision	Document Number/Revision
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**20. Approvals**

Signature	Date	Signature	Date
<b>OPERATIONS AND ENGINEERING</b>		<b>ARCHITECT-ENGINEER</b>	
Cog./Project Engineer M. T. Stankovich 	6/4/92	PE	_____
Cog./Project Engr. Mgr. R. P. Henckel 	6/8/92	QA	_____
QA G. S. Corrigan 	6-8-92	Safety	_____
Safety	_____	Design	_____
Security	_____	Other	_____
Proj. Prog./Dept. Mgr.	_____	Operable Unit Coordinator W. E. Green 	6/9/92
Def. React. Div.	_____		_____
Chem. Proc. Div.	_____		_____
Def. Wst. Mgmt. Div.	_____		_____
Adv. React. Dev. Div.	_____	<b>DEPARTMENT OF ENERGY</b>	
Proj. Dept.	_____	E. D. Goller 	6-9-92
Environ. Div.	_____		_____
IRM Dept.	_____	<b>ADDITIONAL</b>	
Facility Rep. (Ops.)	_____	P. S. Innis - EPA 	6/14/92
Other	_____		_____

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SUPPORTING DOCUMENT

1. Total Pages 14

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Source Investigation Field Activities for the 100-FR-1 Operable Unit Description of Work

3. Number

WHC-SD-EN-AP-094

4. Rev No.

1

5. Key Words

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100-F Area  
132-F-1  
141-F

6. Author

Name: M. T. Stankovich

*M.T. Stankovich* 6/3/92  
Signature

Organization/Charge Code 81221/PH1AA

APPROVED FOR  
PUBLIC RELEASE  
6/17/92 N. Solis

7. Abstract

This activity plan details the field activities associated with the nonintrusive source sampling in the 100-F Area of the Hanford Site and will serve as a field guide for those performing the work.

Stankovich M. T., 1992, *Source Investigation Field Activities for the 100-FR-1 Operable Unit Description of Work*, WHC-SD-EN-AP-094, Rev 1, Westinghouse Hanford Company, Richland, Washington.

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## 1.0 SCOPE OF WORK

This document details the field activities associated with nonintrusive source sampling in 100-FR-1 Operable Unit of the Hanford Site and will serve as a field guide for those performing the work (DOE/RL 1991, Task 2). It should be used in conjunction with *Remedial Investigation/Feasibility Study Work Plan for the 100-FR-1 Operable Unit, Hanford Site, Richland, Washington* (DOE/RL 1991) for general investigation strategy and with *Environmental Investigations and Site Characterization Manual* (WHC 1988a) for specific procedures. This description of work describes specific limited field investigation activities and sampling locations in accordance with discussions at the June 27, 1991, 100 Area work plan rescoping meeting.

This description of work also addresses sampling of the 132-F-1 Chronic Feeding Barn.

## 2.0 GENERAL REQUIREMENTS

### 2.1 HEALTH AND SAFETY

All personnel working to this description will perform all work in accordance with the following:

- WHC-EP-0383, *Environmental Engineering, Technology, and Permitting Function Quality Assurance Program Plan* (WHC 1990)
- WHC-CM-4-10, *Radiation Protection* (WHC 1988b)
- WHC-CM-4-11, *ALARA Program Manual* (WHC 1988c)
- WHC-CM-4-3, *Industrial Safety Manual*, Vol. 1 through 3, (WHC 1987)
- WHC-CM-7-5, *Environmental Compliance Manual* (WHC 1988d)
- WHC-SD-EN-SAD-002, *100 Area Low Hazard Characterization Activities Safety Assessment*, Rev. 0 (Taylor 1991)
- Site-specific job safety analysis.

### 2.2 PREREQUISITES

A readiness review will be completed by the cognizant engineer before each sampling task is initiated. The readiness review will be completed per EII 1.13, Environmental Engineering and Geotechnology Readiness Review, (WHC 1988a). The Source Sampling Status Checklist (Attachment 1) will be initialed by the cognizant engineer or field team leader and dated as each step of the task is completed.

### 3.0 SAMPLING AND FIELD ACTIVITIES

#### 3.1 FACILITY BACKGROUND

The 132-F-1 Chronic Feeding Barn (141-F Sheep Barn or 141 Biological Laboratory) was one of several facilities used by Pacific Northwest Laboratories (PNL) for animal research operations. The facility was abandoned when PNL moved their biological studies to the 300 Area. The components, equipment, and portions of the building were radiologically contaminated with  $^{137}\text{Cs}$ ,  $^{131}\text{I}$ ,  $^{90}\text{Sr}$ ,  $^{226}\text{Ra}$ , and  $^{239/240}\text{Pu}$ . In 1977 PNL issued a work order to J. A. Jones Construction to clean and decontaminate the building before turning the facility over to the Surplus Facilities Program. The laboratory hoods and all exhaust ducts were filled with foam and cut in sections, packaged, and buried at the 200 West Area burial ground. All contaminated tile, sections of roof, side walls, and concrete floors were removed, packaged, and disposed in the 200 West Area burial grounds. The building was surveyed, unconditionally released, and demolished in FY 1978 (WHC 1991a). All noncontaminated debris was buried in the 182-F reservoir.

#### 3.2 LOCATION

The 132-F-1 Building was located in the northeast area of 100-FR-1 Operable Unit approximately 650 ft from the Columbia River. The building was a large structure approximately 105 ft long, 45 ft wide, and 15 ft high (AEC-RL 1962). The NAD-83 coordinates are approximately N 147,900 and E 580,900 (DOE/RL 1991). The current surface grade is from 412 to 414 ft above sea level. Figure 1 shows the location of the facility in relation to other buildings in the 100-FR-1 Operable Unit.

Information from ground-penetrating radar (GPR) will be used to determine the sampling sites. Since there are no visible signs of 132-F-1, the location of the barn will be identified and the test pit staked using data from the GPR and a 1962 100-F Area Map (AEC-RL 1962).

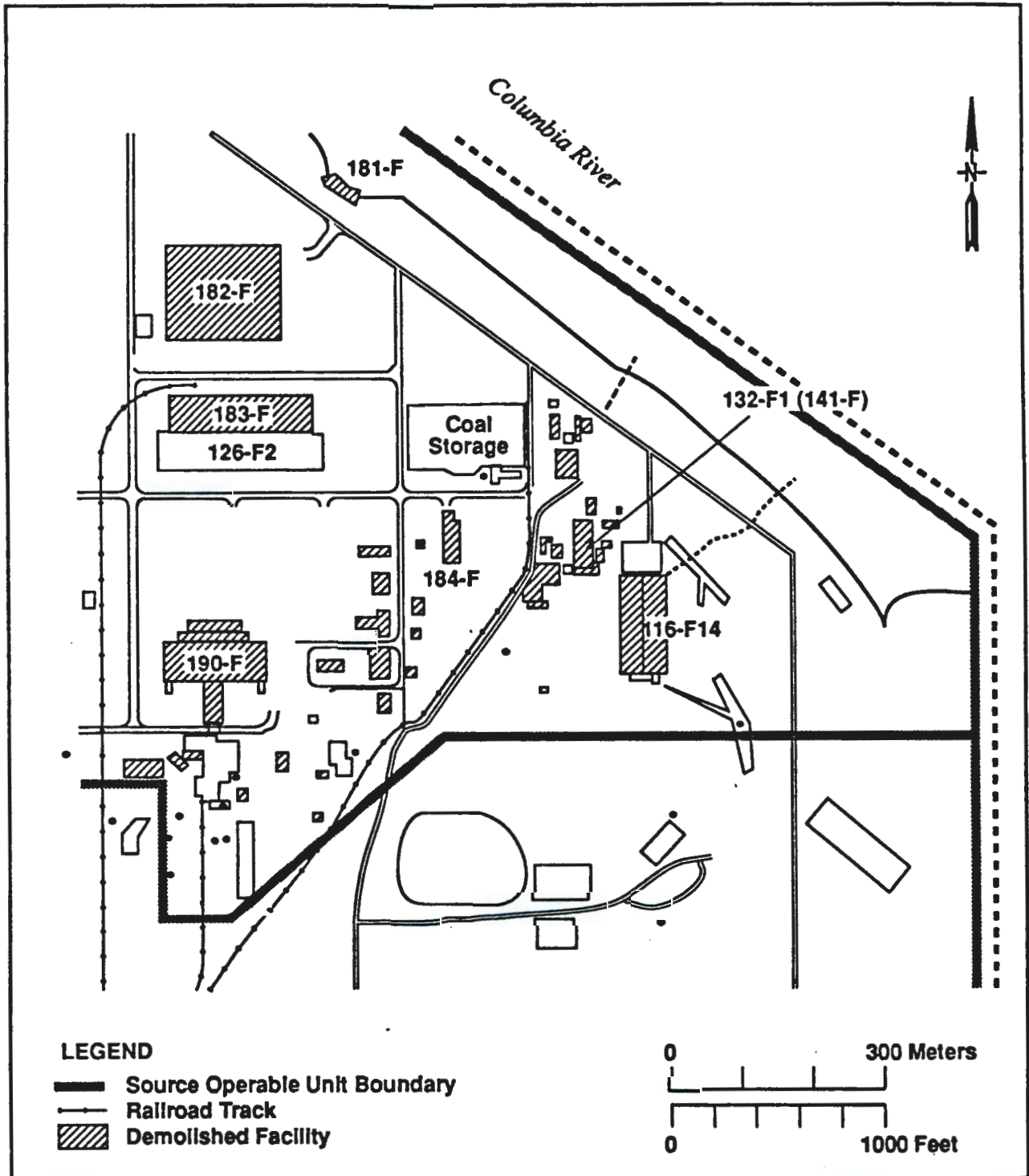
#### 3.3 SAMPLE ANALYSIS

##### 3.3.1 Contaminants of Concern

The contaminants of concern for the 132-F-1 Building are  $^{137}\text{Cs}$ ,  $^{131}\text{I}$ ,  $^{90}\text{Sr}$ ,  $^{226}\text{Ra}$ , and  $^{239/240}\text{Pu}$  (WHC 1991a). Because of the uncertainty of other contaminants, the soil samples will be analyzed for the radionuclides identified in the work plan, all CERCLA target analyte list (TAL) and target compound list (TCL) constituents, and specific anions (DOE/RL 1991, Table QAPjP-1).

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Figure 1. 132-F-1 Chronic Feeding Barn.



### 3.3.2 Field Screening

The field screening discussed in this section is not for health and safety determination. Health and safety issues are covered in the radiation work permit or the job safety analysis. Field screening covered in this section is for the purpose of selecting samples for laboratory analysis.

All excavated material will be field screened for radioactivity. If the field team leader finds radioactive contamination two times background a sample will be taken per Section 3.5. Background will be determined before excavation is started. The field team leader will determine the ambient radiation background 3 ft over the sampling site. The background will be determined per EII 3.4, Field Screening, Appendix A. The radiation background will be recorded in the field logbook. Radiation field screening will be performed using a Geiger-Mueller instrument with a P-11 probe.

### 3.3.3 Laboratory Analysis

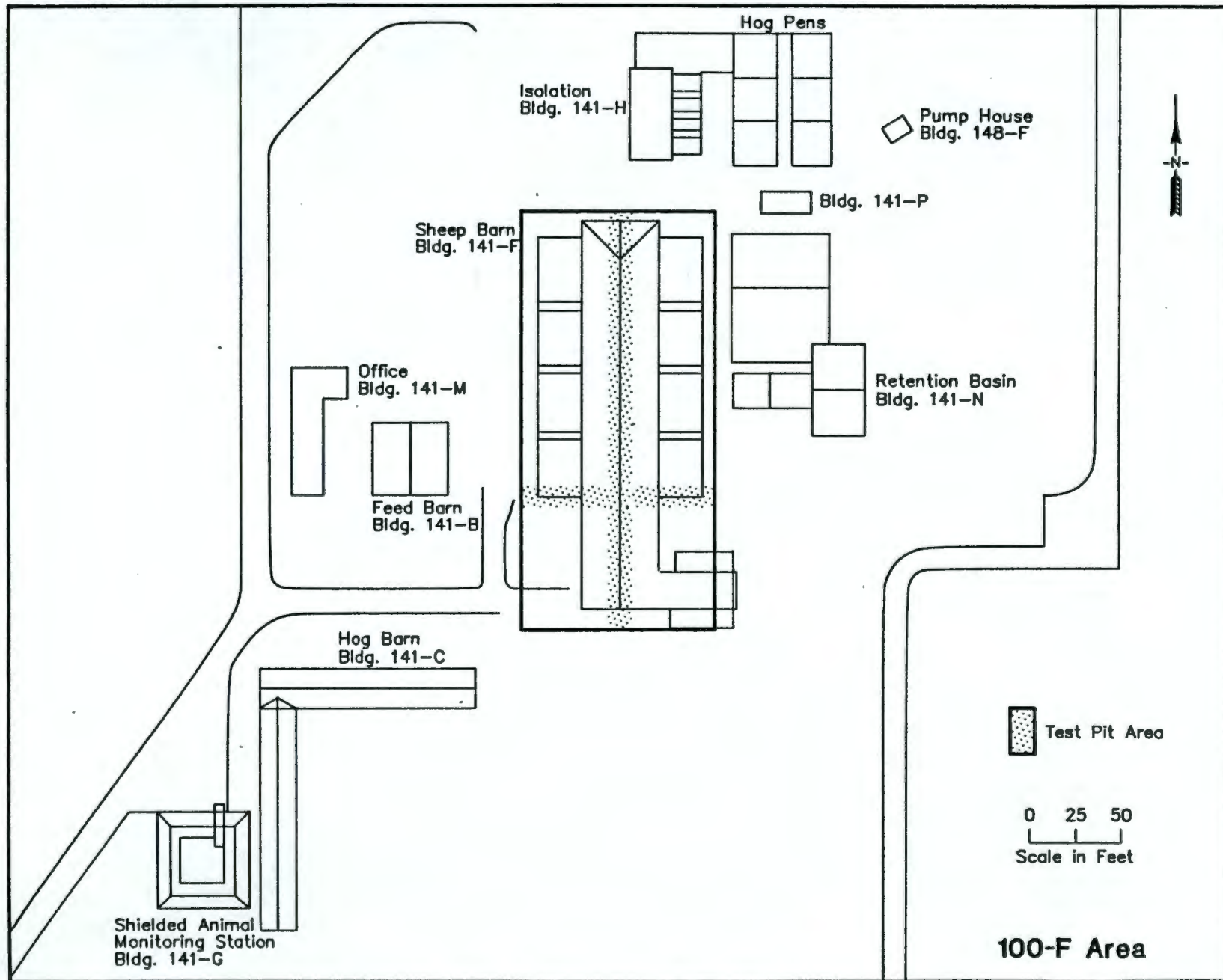
All samples will be analyzed per Section 5.0. The list of analytes is consistent with the work plan (DOE/RL 1991). If full sample volume requirements cannot be met, the field sampler will record the volume obtained in the sampling logbook per EII 1.5, Field Logbooks (WHC 1988c) and the sample collection will occur in the following order:

- TCL volatiles
- TCL semivolatiles/PCB/pesticides
- TAL metals and cyanide
- Anions
- Radioisotopes
- Total activity.

### 3.4 TEST PIT CONSTRUCTION

The test pit will be constructed in an area staked out as part of Section 3.2. The test pit area will extend 5 ft beyond the dimensions of building. The test pit will form a cross over the site. The east-west arm of the test pit will start at the west boundary, 75 ft from the south edge. The objective of digging this arm is to check part of the sheep stalls and the ground immediately south of the stall where there was a reported spill for contamination. The test pit will be dug due east until the east edge of the site boundary is reached. The width of the pit will be approximately 3 ft (one bucket width). The north-south arm of the pit will start on the north edge and go south. The starting point will be 20 ft from the west edge. The width of the test pit will be 3 ft. Figure 2 shows the site location and the test pit perimeter. The depth of the pit will be determined using GPR data. If the results of the GPR are inconclusive the test pit will be 4 ft deep.

Figure 2. 132-F-1 Chronic Feeding Barn Test Pit.



The test pit will be constructed per the safety constraints required in the job safety analysis. At the direction of the field team leader plastic or other covering may be placed on the ground adjacent to the excavation for the temporary stockpiling of excavated material. Excavated material will be continuously screened per the criteria stated in Section 3.3.2 from the surface to the final depth. If the whole body exposure or contamination exceeds the radiation work permit limit, the sampling activities will be terminated and the task will be reassessed.

After all samples have been collected at the pit site, the excavation will be backfilled in approximately the reverse order, so the first bucketful excavated is the last bucketful backfilled. The test pit site will returned to it's original condition. All waste generated will be handled per EII 4.3, Control of CERCLA and Other Past-Practice Investigation Derived Waste (WHC 1988a).

### 3.5 SAMPLE COLLECTION

Analytical samples will be collected directly from the backhoe bucket using hand tools and standard soil sampling techniques per EII 5.2, Soil and Sediment Sampling, Appendix F (WHC 1988a). The bucket of the backhoe will be decontaminated or cleaned of visible dirt before sampling and between sample locations. A bucket of soil will be removed from the test pit and brought to the side of the test pit for sampling. Samples shall be collected from contaminated soil in the middle of the bucket, away from the bucket sides if possible. All sample material will be collected in the order shown in Section 3.3.3. A minimum of one sample or a maximum of two samples will be collected per the following criteria:

- Collect one sample the first time the material does not pass the radiation screening criteria
- Collect the second sample 6 ft horizontally down the trench after first sample
- If no contamination is encountered collect the first sample at the intersection of the two arms of the test pit. A 3 ft by 3 ft area at the intersection of the two trench arms will be staked off before excavation is to start. This area will only be excavated and sampled if no samples are collected using the criteria from the first two bullets.

All test pit material will be field screened for radioactive contamination per Section 3.3.2. A field logbook (WHC-N-429-1) will be used to document activities associated with the sample collection. The logbook will be used and maintained per EII 1.5 Field Logbooks (WHC 1988a). All samples collected will be packaged and sent to an offsite laboratory for analysis. The packaging of the samples is done per EII 5.11, Sample Packaging and Shipping (WHC 1988a). A chain of custody is initiated and maintained after the sample is collected. The chain of custody is done per EII 5.1 Chain of Custody (WHC 1988a).

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4.0 SAMPLE LABELING

The Hanford Environmental Information System (HEIS) is used to track the sample and laboratory data obtained during environmental investigations conducted under this description of work. Each sample will be identified and labeled with a unique HEIS sample number. HEIS numbers will be assigned per the Hanford Environmental Information System (HEIS) User's Manual (WHC 1991b). Field sampling data will be collected and recorded in the field logbook (WHC-N-429-1).

5.0 ANALYSES

Samples collected for chemical analysis will be analyzed for the full suite of CERCLA CLP TCL and TAL constituents, specific anions, and specified radionuclides. Estimated quantity of material needed for analyses are shown in Table 1. The laboratory will use existing Level III and Level IV methods for CLP TCL and TAL constituents and Level V for radionuclides. The specific anions will be analyzed using EPA methods (EPA 1986). Sample custody will follow the procedures as specified in the 100-FR-1 Operable Unit work plan (DOE/RL 1991, Appendix A, Section 5.1) and EII 5.1 Chain of Custody (WHC 1988a).

Table 1. 132-F-1 Soil Analyte List.

Analyte	Method	Holding time	Container/volume
AA metals mercury cyanide	CLP	6 mo 28 d 14 d	Glass/500 mL
Volatile organic	CLP	14 d	Glass (septum)/125 mL
Semivolatile organic PCB/pesticides	CLP CLP	7 d <sup>a</sup>	Amber glass/1,000 mL
Anions: F <sup>-</sup> , NO <sub>3</sub> <sup>-</sup> , & SO <sub>4</sub> <sup>-</sup>	EPA 300 & 353.2	28 d	Amber glass/250 mL
Carbon-14 Strontium-90 Gross alpha Gross beta Gamma spec	Lab SOP	6 mo	Glass/1,000 mL
Alpha spec	Lab SOP		
Total Activity (222-S Lab)		6 mo	Plastic or glass vial (at least 1 g)

<sup>a</sup>7 d for extraction, 40 d after extraction for analysis.

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**6.0 QUALITY ASSURANCE/QUALITY CONTROL REQUIREMENTS**

Internal quality control (QC) samples shall be collected as specified in the work plan Appendix A, Quality Assurance (QA) Project Plan.

The following QA samples will be collected for the 132-F-1 Building.

<u>QA Sample</u>	<u>QC</u>	<u>Medium</u>
Trip blank (one per trip container)	A pedigree of matrix will be included in project file.	Silica sand
Field duplicate (one sample)		First soil sample taken
Split (one sample)		First soil sample taken

The field team leader will document in the field logbook the QA sample's HEIS number, sample location, sample medium, and any relationship to other samples.

**7.0 SCHEDULE**

The following schedule is for nonintrusive source sampling in the 100-FR-1 Operable Unit. This schedule is subject to change and the operable unit coordinator should be contacted for current status. An agreement activity notification form will be issued at least 5 d before start of field work.

<u>Sample task</u>	<u>Sampling date</u>
132-F-1 Chronic Feeding Barn Decontamination Station	Last 2 wk of June

**8.0 CHANGES TO DESCRIPTION OF WORK**

Major changes to this description of work, such as analyzing different parameters, using different analytical methods, or changing the sampling intervals will be submitted on the attached form (Attachment 2) and kept on file with the operable unit coordinator. The two digit change control tracking number will be supplied by the operable unit coordinator. The change will require, as a minimum, the verbal approval of field team leader and operable unit coordinator. The change will be filed as an Engineering Change Notice and a copy will be inserted into the 100-F Area project file. Copies will be submitted to the lead regulatory agency and appropriate field personnel.

9 2 1 2 6 1 1 1 3 2 3

9.0 REFERENCES

- AEC-RL, 1962, *Area Map 100-F*, Drawing No. H-1-13850, Sheet 2 of 3, U.S. Atomic Energy Commission, Richland, Washington.
- DOE/RL, 1991, *Remedial Investigation/Feasibility Study Work Plan for the 100-FR-1 Operable Unit, Hanford Site, Richland, Washington*, DOE/RL-90-33, Draft B, U.S. Department of Energy, Richland Field Office, Richland, Washington.
- EPA, 1986, *Test Methods for Evaluating Solid Waste Physical/Chemical Methods*, SW-846, U.S. Environmental Protection Agency, Washington, D.C.
- Taylor, W. E., 1991, *100 Area Low Hazard Characterization Activities Safety Assessment*, WHC-SD-EN-SAD-002, Rev 0, Westinghouse Hanford Company, Richland, Washington.
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- WHC, 1988a, *Environmental Investigations and Site Characterization Manual*, WHC-CM-7-7, Westinghouse Hanford Company, Richland, Washington,
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- WHC, 1988c, *ALARA Program Manual*, WHC-CM-4-11, Westinghouse Hanford Company, Richland, Washington.
- WHC, 1988d, *Environmental Compliance Manual*, WHC-CM-7-5, Westinghouse Hanford Company, Richland, Washington.
- WHC, 1990, *Environmental Engineering, Technology, and Permitting Function Quality Assurance Program Plan*, WHC-EP-0383, Westinghouse Hanford Company, Richland, Washington.
- WHC, 1991a, *Summary of the Hanford Site Decontamination, Decommissioning, and Cleanup FY 1974 through FY 1990*, WHC-EP-0478, Westinghouse Hanford Company, Richland, Washington.
- WHC, 1991b, *Hanford Environmental Information System (HEIS) User's Manual*, WHC-EP-0372, Westinghouse Hanford Company, Richland, Washington.

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ATTACHMENT 1

**100-F AREA NONINTRUSIVE  
SOURCE SAMPLING STATUS CHECKLIST**

Signature/Date

LANDLORD CONTACTED FOR ENTRANCE

\_\_\_\_\_

100 AREA ENVIRONMENTAL PROTECTION NOTIFIED

\_\_\_\_\_

PREJOB SAFETY MEETING COMPLETED

\_\_\_\_\_

SAMPLES COLLECTED AND LABELED

\_\_\_\_\_

SAMPLES SURVEYED BY HPT

\_\_\_\_\_

SAMPLE PACKAGED IN SHIPPING CONTAINER

\_\_\_\_\_

TOTAL ACTIVITY SCAN OF SAMPLES COMPLETED

\_\_\_\_\_

CHAIN OF CUSTODY FORM COMPLETED

\_\_\_\_\_

SAMPLES SHIPPED TO LABORATORY

\_\_\_\_\_

9 2 1 2 5 1 4 7 3 2 5

ATTACHMENT 2  
**100-FR-1 AREA NONINTRUSIVE SOURCE SAMPLING  
PROJECT CHANGE FORM**

Date: \_\_\_\_\_

Tracking Number: \_\_\_\_\_

Person Initiating Change: \_\_\_\_\_

Change: \_\_\_\_\_

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Reason for Change: \_\_\_\_\_

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**APPROVAL:**

Field Team Leader: \_\_\_\_\_

Operable Unit Coordinator: \_\_\_\_\_

Environmental QA Representative: \_\_\_\_\_

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Date Received: 6/4/92

# INFORMATION RELEASE REQUEST

Reference: WHC-CM-3-4

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Title Source Investigation Field Activities for 100-FR-1 Operable Unit Description of Work	Unclassified Category UC-NA	Impact Level 39
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Information conforms to all applicable requirements. The above information is certified to be correct.

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Project Title/Work Order:

Source Investigation Field Activities for the 100-FR-1 Operable Unit Description of Work

EDT No.:

ECN No.: 168784

Name	MSIN	With Attachment	EDT/ECN & Comment	EDT/ECN Only
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