

<b>ENGINEERING CHANGE NOTICE</b>	Page 1 of <u>2</u>	1. ECN No <b>618172</b> ----- Proj. ECN
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<b>2. ECN Category (mark one)</b>  Supplemental <input type="checkbox"/> Direct Revision <input checked="" type="checkbox"/> Change ECN <input type="checkbox"/> Temporary <input type="checkbox"/> Standby <input type="checkbox"/> Supersedure <input type="checkbox"/> Cancel/Void <input type="checkbox"/>	<b>3. Originator's Name, Organization, MSIN, and Telephone No.</b> P.B. Freeman, Environmental Projects, H6-06, 376-3324 0M6220	<b>3a. USQ Required?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>4. Date</b> March 10, 1995
	<b>5. Project Title/No./Work Order No.</b> Interim-Status Groundwater Quality Assessment Program Plan for the 216-A-29 Ditch R4044	<b>6. Bldg./Sys./Fac. No.</b> 216-A-29-Ditch	<b>7. Approval Designator</b> QE
	<b>8. Document Numbers Changed by this ECN (includes sheet no. and rev.)</b> <del>WHC-SD-EN-AP-031</del> <del>WHC-EN-SD-AP-001</del> Rev. 0-A	<b>9. Related ECN No(s).</b> NA	<b>10. Related PO No.</b> NA
<b>11a. Modification Work</b>  <input type="checkbox"/> Yes (fill out Blk. 11b) <input checked="" type="checkbox"/> No (NA Blks. 11b, 11c, 11d)	<b>11b. Work Package No.</b> NA	<b>11c. Modification Work Complete</b>  NA  _____ Cog. Engineer Signature & Date	<b>11d. Restored to Original Condition (Temp. or Standby ECN only)</b> NA  _____ Cog. Engineer Signature & Date

**12. Description of Change**  
 Replace pages 25, 27 and 28. Westinghouse Hanford Company (WHC) is now performing all sampling and analysis activities for the 216-A-29 Ditch as of March 1995. All Pacific Northwest Laboratory (PNL) references to these activities were deleted.

**13a. Justification (mark one)**

Criteria Change <input type="checkbox"/>	Design Improvement <input type="checkbox"/>	Environmental <input type="checkbox"/>	Facility Deactivation <input type="checkbox"/>
As-Found <input type="checkbox"/>	Facilitate Const <input checked="" type="checkbox"/>	Const. Error/Omission <input type="checkbox"/>	Design Error/Omission <input type="checkbox"/>

**13b. Justification Details**  
 see 12.

<b>14. Distribution (include name, MSIN, and no. of copies)</b> See Distribution Sheet	RELEASE STAMP  OFFICIAL RELEASE BY WHC DATE MAR 21 1995 <i>Sta. 21</i>
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**SUPPORTING DOCUMENT**

1. Total Pages 46

2. Title

Interim-Status Groundwater Quality Assessment Plan  
for the 216-A-29 Ditch

3. Number

WHC-SD-EN-AP-031

4. Rev No.

0-B

5. Key Words

Groundwater monitoring  
RCRA  
Sampling and Analysis  
Network Well Design

6. Author

Name: P. B. Freeman

*PB Freeman 3-10-95*  
Signature

Organization/Charge Code OM622//R4044

7. Abstract

Groundwater Assessment Monitoring Plan for the 216-A-29 Ditch

**APPROVED FOR  
PUBLIC RELEASE**

8. RELEASE STAMP

OFFICIAL RELEASE  
BY WHC

DATE MAR 21 1995

*Sta. 21*



## 5.6 SAMPLING AND ANALYSIS METHOD

This section describes or references procedures for groundwater sampling, sample collection documentation, chain-of-custody requirements, and laboratory analysis. The detailed description of specific standard sampling and analysis procedures are provided by reference to the specific Environmental Investigation Instructions (EII) (WHC 1988A) and the Quality Assurance Project Plan for RCRA Groundwater Monitoring Activities (WHC 1993). Work by subcontractors shall be conducted to their equivalent approved standard operating procedures.

All field sampling activities will be recorded in the proper field logbook as specified in EII 1.5. Prior to sampling each well, the static water level will be measured and recorded as specified in EII 10.2. Based on the measured water level and well construction details, the volume of water in the well will be calculated and documented in the well sampling form or field notebook. As specified in EII 5.8, prior to sampling, each well be purged until the approved criteria is met. Purge water will be managed according to EII 10.3. In the situations where wells pumps dry because of very slow recharge, the sampling will be collected after recharge.

Sample preservation, chain-of-custody procedures, and sample analysis in accordance with 40 CFR 265.92 are discussed in EII 5.1. The quality assurance/control (QA/QC) protocol is specified in (WHC 1993). The purpose of the QC activities is to determine and document that samples were carefully collected and transferred to an analytical laboratory, that the quality of the analytical results being produced by the laboratory are defensible, and to see that corrective actions will be taken as necessary.

## 6.0 QUALITY ASSURANCE PROGRAM

Overall quality assurance program requirements are defined in Westinghouse Hanford Company Quality Assurance Manual (WHC 1989) and Article 31 (XXXI) of the Hanford Federal Facility Agreement and Consent Order (DOE-RL 1994). The RCRA sampling and analysis program is supported by Quality Assurance Project Plan for RCRA Groundwater Monitoring Activities (WHC 1993). This program is designed to meet requirements of Interim Guidelines and Specifications for Preparation of Quality Assurance Project Plans (EPA 1983).

### 6.1 INTERNAL QUALITY CONTROL OF PARTICIPANT CONTRACTOR OR SUBCONTRACTOR LABORATORY

Internal QC at the participant contractor, or subcontractor laboratories include general practices applicable to a wide range of analyses, as well as specific procedures stipulated for particular analyses. Each laboratory generating data has the responsibility to implement minimum

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EPA, 1980, Interim Status Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities, Title 40, Code of Federal Regulations, Part 265, as amended, U.S. Environmental Protection Agency, Washington, D.C.

EPA, 1983, Interim Guidelines and Specifications for Preparation of Quality Assurance Project Plans, QAMS-005/80, U.S. Environmental Protection Agency/Office of Exploratory Research, Washington, D.C.

EPA, 1986a, Resource Conservation and Recovery Act (RCRA) Groundwater Monitoring Technical Enforcement Guidance Document, OSWER9950.1, U.S. Environmental Protection Agency, Washington, D.C.

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~~PNL, 1989a, Procedures for Groundwater Investigations, PNL-6894, Pacific Northwest Laboratory, Richland, Washington.~~

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~~PNL, 1989c, Quality Assurance Manual, PNL-7000, Pacific Northwest Laboratory, Richland, Washington.~~

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- Swanson, D.A., J.L. Anderson, R. D. Bentley, V. E. Camp, J. N. Gardner, and T. L. Wright, 1979, Reconnaissance Geologic Map of the Columbia River Basalt Group in Eastern Washington and Northern Idaho, Open file Report 70-1363, U.S. Geological Survey, Washington, D.C.
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- WHC, 1988, Environmental compliance Manual, WHC-CM-7-5, Westinghouse Hanford Company, Richland, Washington.
- WHC, 1988A, Environmental Investigation and Site Characterization Manual, WHC-CM-7-7, Westinghouse Hanford Company, Richland, Washington.
- WHC, 1993, Quality Assurance Project Plan for RCRA Groundwater Monitoring Activities, WHC-SD-EN-QAPP-001, Westinghouse Hanford Company, Richland, Washington.

## DISTRIBUTION SHEET

To DISTRIBUTION	From P. B. FREEMAN	Page 1 of 1
		Date 3/10/95

Project Title/Work Order Interim-Status Groundwater Quality Assessment Program Plan for the 216-A-29 Ditch	EDT No. <del>123603</del>
ECN No. 618172	

Name	MSIN	Text With All Attach.	Text Only	Attach./ Appendix Only	EDT/ECN Only
D. J. CARREL	H6-22				X
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