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Final

**Meeting Minutes Transmittal/Approval
Unit Manager's Meeting: 300-FF-5 Operable Unit
2440 Stevens Center, Room 1200, Richland, Washington
April 28, 1994**

FROM/APPROVAL: Robert G. McLeod Date May 26, 1994
Robert G. McLeod, 300-FF-5 Unit Manager, RL (A5-19)

APPROVAL: David R. Einan Date 5/26/94
David R. Einan, 300-FF-5 Unit Manager, EPA (B5-01)

APPROVAL: Dib Goswami Date 5/26/94
Dib Goswami, 300-FF-5 Unit Manager, WA Department of Ecology

Meeting Minutes are attached. Minutes are comprised of the following:

- Attachment #1 - Meeting Summary/Summary of Commitments and Agreements
- Attachment #2 - Attendance List for 300-FF-1 and 300-FF-5
- Attachment #3 - Agenda For Meeting
- Attachment #4 - Action Items Status List
- Attachment #5 - 300-FF-5 Work Progress
- Attachment #6 - River Stage in the 300 Area and Water Level in Well 399-1-16C
- Attachment #7 - Preliminary Outline 300-FF-5 Operable Unit Phase II RI/Phase III FS Report



PREPARED BY: Kay Kimmel Date 5/31/94
Kevin Parrett, Kay Kimmel, GSSC (B1-42)

CONCURRENCE BY: L.C. Hulstrom Date 5/26/94
L. C. Hulstrom, WHC FF-5 RI Coordinator (H6-03)

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Attachment #1

Meeting Summary
Unit Manager's Meeting: 300-FF-5 Operable Unit
April 28, 1994

1. **SIGNING OF THE FEBRUARY 300-FF-5 MEETING MINUTES:** Minutes from the February meeting were reviewed and approved with no changes. It had been agreed that no Unit Manager Meeting would be required for the 300 Areas in March.
2. **ACTION ITEM UPDATE (See Attachment #4):**
No Action Items are open.
3. **NEW ACTION ITEMS (INITIATED April 28, 1994):**
No new action items.
4. **STATUS OF RI/FS ACTIVITIES:**
 - Larry Hulstrom presented the monthly update on tasks for the 300-FF-5 Operable Unit (for details see attachments #5 and #6).
 - 300-FF-5 OU Phase II RI/Phase III FS Report - The Preliminary Outline for the 300-FF-5 Operable Unit Phase II Remedial Investigation/Phase III Feasibility Study Report was discussed (see Attachment #7). The regulators indicated that the format of the 1100 Area document should serve as the basis for any changes to the proposed outline. Several changes were discussed and will be implemented by Golder Associates as they continue to write this report.
5. **INFORMATION ITEMS:**
 - Near Shore River Sampling Plan - Larry Hulstrom indicated that Columbia River water levels continue to be impacted by Snake River changes. He noted that even though the Columbia River water stage will probably be low in May, the near-shore river sampling schedule will not change.
 - Next Meeting: The next Unit Manager Meetings are scheduled for May 25 and 26, 1994 and June 22 and 23, 1994.

300 Aggregate Area: Operable Unit Manager's Meeting
 Official Attendance Record
 April 28, 1994

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PRINTED NAME	ORGANIZATION	O.U. ROLE	TELEPHONE
KAY KIMMEL	MACTEC/D&M	RL SUPPORT	946-3692
Bob McLeod	DOE	UM	372-0096
John R. Freeman - Pub	TEEP - WHE	O.U. Counsel	376-1882
Richard A. Carlson	WHC - ERE	O.U. manager	376-9027
Diana Sickle	WHC - Program	Program Support	372-3141
Teq. Wesley	Ecology	UM	736-3012
Jeff Ross	PRC FMI	EPA Support	206/624-2692
Tom Jones	PNL	Program Office	373-6611
Jim Field	WHC	Treatability	376-3753
Larry Hulstrom	WHC - ERE	FF2/S Coordinator	376-4034
Dave Einar	EPA	UM	509-376-3883
NORMAN KEPNER	ECOLOGY	ERDF	736-3048
Dib Goswami	Ecology	OUUM	736-3015
Scott Kindred	Golden	FF-5 ^{FS} Author	206-883-0777
D. Marcel	Golden	300 FF-5 RI	206 883-0777
Brian Drost	USGS	EPA Support	206 593-6510
AL Farabee	DOE	FF-5 RL Program	509-376-8089
Ashlie Farabee	Member of Public	N/A	↓ ↓ ↓
Tiffany Maples	" " "	N/A	↓ ↓ ↓
E.J. BITTEN	WHC	309/PRTR	509 376 0709
Carolyn Graves	WHC	309/DRTR	(509)376-3873
Chris Webb	WHC	FF-2 OUNIT	372-3204
Phil Stant	Ecology	FF7 OUM	736-3029
Jim Rugg	WHC	Reg. Support	376-1349

Attachment #3

UNIT MANAGER'S MEETING AGENDA
300-FF-5 OU
April 28, 1994
9:00 - 10:00 am
Room 1200, 2440 Stevens Center Place

Introduction:

Status:

Action Items

Remedial Investigation

Feasibility Study

Schedule

Issues:

Other Topics:

Phase II RI/Phase III FS Report Outline

Proposed Plan Outline

MTCA Discussions relative to the Phase III FS

Agreements and Commitments

Presenter - Larry Hulstrom

Attachment #4

Commitments/Agreements Status List

300-FF-5 Operable Unit

April 28, 1994

Item No. Action

Status

No Open Items At This Time

7100-5822-116
2113285-081

April 28, 1994

0 Phase 1 Remedial Investigation Activities

Existing Well Maintenance

The report "Summaries of Well Construction Data and Field Observations for Existing 300-FF-5 Operable Unit Resource Protection Wells", WHC-SD-ER-TI-004, Rev. 1, is available for distribution at this meeting.

Tasks 1 - 9 - completed

Task 10 - Phase 1 Remedial Investigation Report

Acceptance of Revision 0 of the Phase I RI report as final was received from EPA on April 18, 1994.

0 Phase 1 and 2 Feasibility Studies Activities

Acceptance of Revision 0 of the Phase I and II FS report as final was received from EPA on April 18, 1994.

0 Phase 2 Remedial Investigation/Phase 3 Feasibility Studies Activities

TPA Change Control Form M-15-94-01 was approved on February 24, 1994 to officially document the decision to issue a combined Phase 2 RI/Phase 3 FS report which will be due to the regulators for review on January 30, 1995 as TPA milestone M-15-04B/C. Phase 2 RI work scope will include Round 5, 6, and 7 groundwater sampling data, and a near-shore river sampling event to be conducted in June, 1994.

A kickoff meeting was held with SAIC/Golder Associates on April 13 to initiate writing of the combined Phase 2 RI/Phase 3 FS report. A proposed outline for the report and the Proposed Plan is attached for discussion at this meeting.

The report "Data Validation Summary Report - 300-FF-5 - Round 6 Groundwater", WHC-SD-EN-TI-173, Rev. 0 was distributed on March 25, 1994. A revision to that document is ready for distribution at this meeting.

The document "300-FF-5 Operable Unit Field Sampling Plan for the Phase 2 Remedial Investigation Near-Shore River Sampling", WHC-SD-EN-AP-162, Rev. 0 was also distributed on March 25, 1994. Currently with the lowering of the Snake River to facilitate salmon runs there is a concern that a spring high water stage in May may not occur. This could impact the June sampling event for both the groundwater and the river.

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April 28, 1994

0 Phase 2 Remedial Investigation/Phase 3 Feasibility Studies Activities -
(continued)

With the exception of wells 399-1-16B, and 399-1-16C and the river monitoring station all remaining transducers were disabled on March 30, 1994. An update on the river stage level for March and April is attached. An update on recent activities is provided in "Monitoring Groundwater and River Interaction Along the Hanford Reach of the Columbia River", PNL-9437, which is provided for distribution at this meeting.

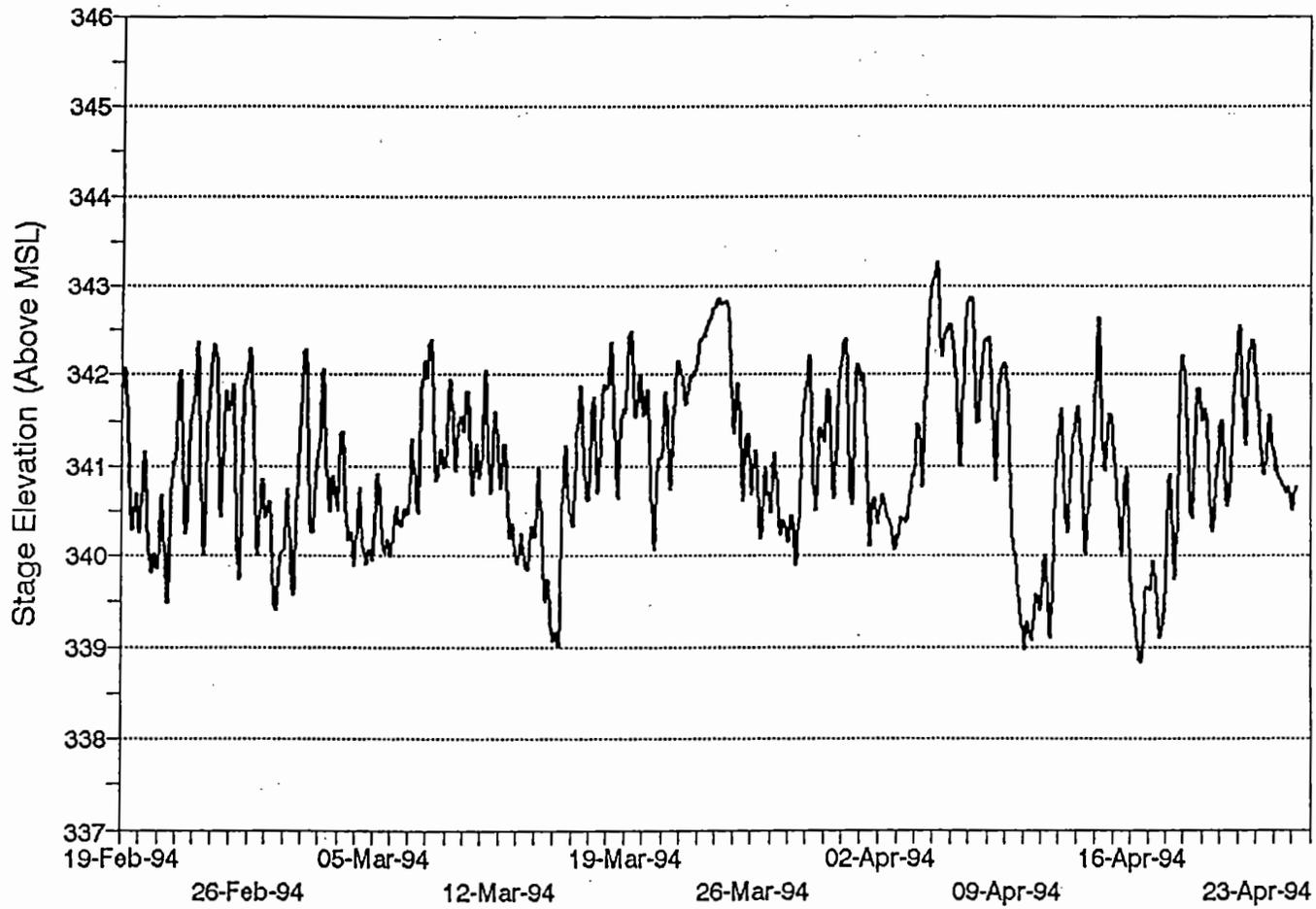
The RCRA program is presently initiating remediation activities at well 399-1-9 which has been found to have similar conditions to that of well 399-1-16C which was remediated by CERCLA last year. An update on the water level in well 399-1-16C is attached.

0 Schedule

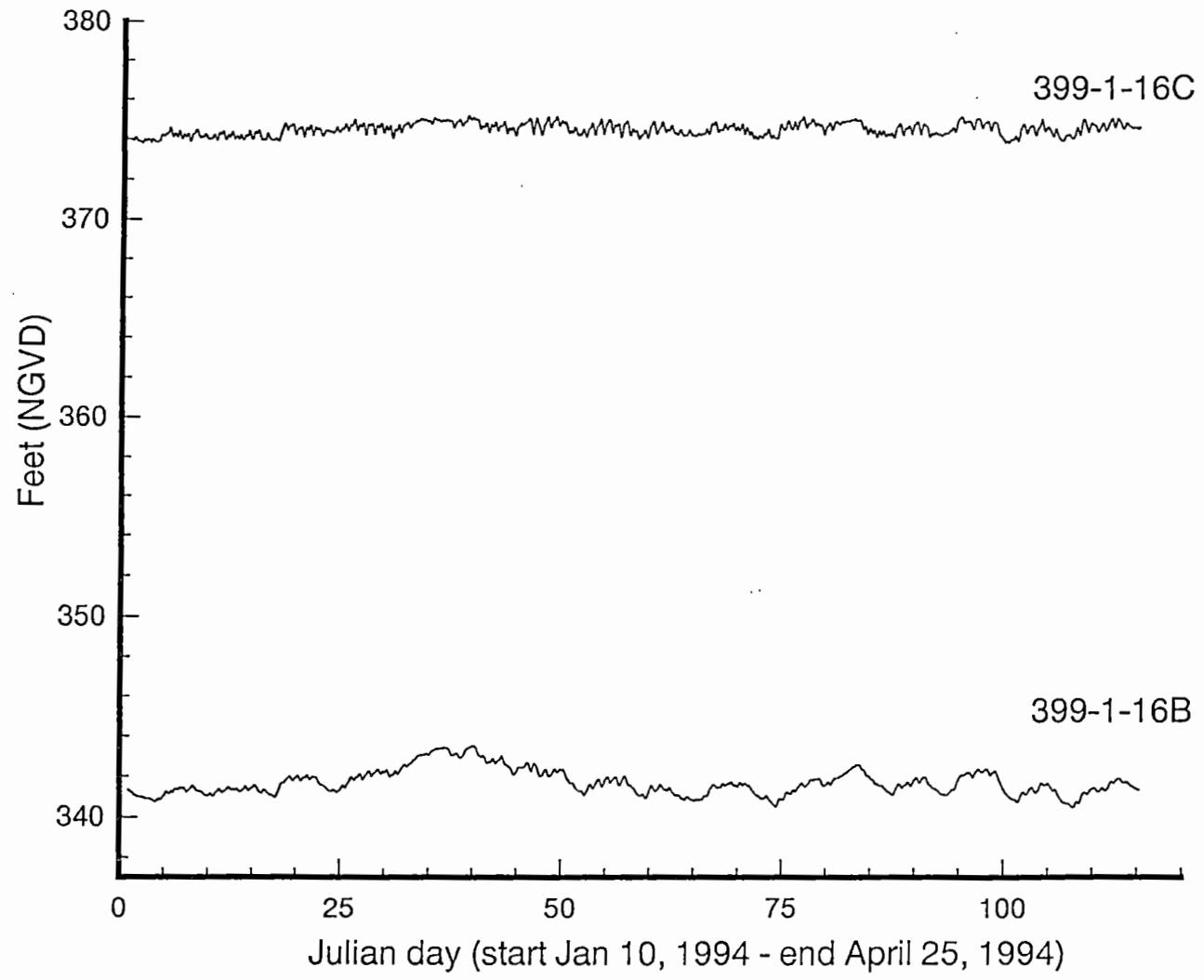
No change from previous submittal.

River Stage in the 300 Area

SWS - 1



Water levels at 399-1-16B and remediated 16C



PRELIMINARY OUTLINE
300-FF-5 OPERABLE UNIT PHASE II RI/PHASE III FS REPORT

Executive Summary

- 1.0 INTRODUCTION
- 1.1 PURPOSE
 - 1.2 BACKGROUND
 - 1.3 REPORT ORGANIZATION
- 2.0 PHASE I RI OVERVIEW
- 2.1 DATA COLLECTION ACTIVITIES
 - 2.2 PHYSICAL CHARACTERISTICS
 - 2.3 NATURE AND EXTENT OF CONTAMINATION
 - 2.4 CONTAMINANT FATE AND TRANSPORT
 - 2.5 BASELINE RISK ASSESSMENT
 - 2.6 CONCLUSIONS AND RECOMMENDATIONS
- 3.0 PHASE II RI DATA COLLECTION ACTIVITIES
- 3.1 SURFACE WATER INVESTIGATION
 - 3.2 GROUNDWATER INVESTIGATION
 - 3.3 URANIUM FATE AND TRANSPORT
 - 3.4 DATA VALIDATION
- 4.0 REFINEMENT OF THE CONCEPTUAL MODEL FROM THE PHASE I RI
- 4.1 NATURE AND EXTENT OF CONTAMINATION
 - 4.1.1 Data Processing
 - 4.1.2 Groundwater Contamination
 - 4.1.3 Surface Water Contamination
 - 4.2 URANIUM FATE AND TRANSPORT
 - 4.3 BASELINE RISK ASSESSMENT
- 5.0 PHASE I/II FS OVERVIEW
- 5.1 REMEDIAL ACTION OBJECTIVES
 - 5.2 IDENTIFICATION AND SCREENING OF REMEDIAL TECHNOLOGIES
 - 5.3 ASSEMBLY AND SCREENING OF REMEDIAL ALTERNATIVES
 - 5.4 SUMMARY AND CONCLUSIONS
- 6.0 PHASE III FS - DETAILED ANALYSIS OF ALTERNATIVES
- 6.1 INTRODUCTION
 - 6.2 SCREENING OF REMEDIAL ALTERNATIVES
 - 6.3 INDIVIDUAL ANALYSIS OF ALTERNATIVES
 - 6.3.1 Alternative 1 - No Action
 - 6.3.1.1 Description
 - 6.3.1.2 Assessment

300-FF-5-ORC2

- 6.3.2 Alternative 2 - Institutional Controls
 - 6.3.2.1 Description
 - 6.3.2.2 Assessment
- 6.3.3 Alternative 3 - Selective Hydraulic Containment
 - 6.3.3.1 Description
 - 6.3.3.2 Assessment
- 6.3.4 Alternative 8 - Selective Slurry Wall Containment with Minimal Extraction
 - 6.3.4.1 Description
 - 6.3.4.2 Assessment

6.4 COMPARATIVE ANALYSIS

7.0 SUMMARY AND CONCLUSIONS

- 7.1 PHASE II RI SUMMARY
- 7.2 PHASE II RI CONCLUSIONS
 - 7.2.1 Recommended ERA
 - 7.2.2 Recommended Remedial Action
- 7.3 PHASE III FS SUMMARY
- 7.4 PHASE III FS CONCLUSIONS

8.0 REFERENCES

APPENDICES

- A - GROUNDWATER CHEMISTRY DATA
- B - SURFACE WATER CHEMISTRY DATA
- C - GROUNDWATER PLUME MAPS
- D - GROUNDWATER MODELING TO SUPPORT PHASE III FS
- E -]
- . -] - SUPPORTING DATA FOR PHASE III FS (as needed)
- X -]

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PRELIMINARY OUTLINE
300-FF-5 OPERABLE UNIT PROPOSED PLAN

INTRODUCTION

OPERABLE UNIT BACKGROUND

REMEDIAL ACTION OBJECTIVES

SUMMARY OF ALTERNATIVES

ALTERNATIVE 1 - NO ACTION

ALTERNATIVE 2 - INSTITUTIONAL CONTROLS

ALTERNATIVE 3 - SELECTIVE HYDRAULIC CONTAINMENT

ALTERNATIVE 8 - SELECTIVE SLURRY WALL CONTAINMENT WITH MINIMAL
EXCAVATION

EVALUATION CRITERIA

OVERALL PROTECTION OF HUMAN HEALTH AND THE ENVIRONMENT

COMPLIANCE WITH ARARs

LONG-TERM EFFECTIVENESS AND PERMANENCE

REDUCTION OF TOXICITY, MOBILITY OR VOLUME THROUGH TREATMENT

SHORT-TERM EFFECTIVENESS

IMPLEMENTABILITY

COST EFFECTIVENESS

STATE ACCEPTANCE

COMMUNITY ACCEPTANCE

EVALUATION OF ALTERNATIVES

COMPARATIVE ANALYSIS

SUMMARY OF THE PROPOSED ALTERNATIVE

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Distribution

Unit Manager's Meeting: 300-FF-5 Operable Unit
April 28, 1994

Robert G. McLeod DOE-RL, END (A5-19)
Diane Clark DOE-RL (A5-55)
Lisa C. Treichel DOE-HQ (EM-442)

Dib Goswami WDOE (Kennewick Office)

Lynn Albin WA Dept. of Health
Dave Einan EPA (B5-01)
Brian Drost USGS
Audree DeAngeles PRC

Mel Adams /Rich Carlson, WHC (H6-03) WHC (H6-01)
Larry Hulstrom WHC (H6-03)
L.D. Arnold WHC (B2-35)
Diana Sickle WHC (H6-27)
Chris Widrig (Please route to:) PNL (K1-72)
 Wayne Martin PNL (K1-19)
 Mark Hanson PNL (K1-51)
 Roy Gephart PNL (K1-22)
 Steve Slate PNL (K1-19)
 Joan Keller PNL (K1-21)
 Ben Johnson PNL (K1-78)

Original Sent To: ADMINISTRATIVE RECORD: 300-FF-5; Care of EPIC, WHC (H6-08)

Please inform Kay Kimmel (946-3692) (MSIN B1-42), Mactec/
Dames & Moore, of deletions or additions to the distribution list.