

START

0025105

Final

Meeting Minutes Transmittal/Approval
 Unit Manager's Meeting: 100 Aggregate Area/100 Area Operable Units
 450 Hills Street, Richland, Washington
 October 21, 1992

FROM/APPROVAL: Eric D. Goller Date 11/18/92
 Eric D. Goller, 100 Area Unit Manager, RL (A5-19)

APPROVAL: Jeff Phillips Date 11/18/92
 Jeff Phillips, 100 Aggregate Area Unit Manager, WA Department of Ecology

APPROVAL: Dennis Faulk Date 11-18-92
 Dennis Faulk, 100 Aggregate Area Unit Manager, EPA (B5-01)

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

- Attachment #1 - Meeting Summary
- Attachment #2 - Attendance Sheet
- Attachment #3 - Agenda
- Attachment #4 - Action Item Status List
- Attachment #4b - Action Item Status List (open items only)
- Attachment #5 - 100-NR-1 Operable Unit Soil Gas Survey
- Attachment #6 - 100-Area Wide Activities and Schedule
- Attachment #7 - 100-DR-1, 100-HR-1, 100-NR-1 OUs
- Attachment #8 - 100-HR-3, 100-NR-2 OUs
- Attachment #9 - 100-BC-1, 100-KR-1, 100-FR-1 OUs
- Attachment #10 - 100-BC-5, 100-KR-4, 100-FR-3 OUs
- Attachment #11 - 100 NPL Agreement/Change Control Form #35



Prepared by: Suzanne Clarke Date: 11/18/92
 Suzanne Clarke, Kay Kimmel, GSSC (A4-35)

Concurrence by: Bob Henckel Date: 11/18/92
 Bob Henckel, WHC Coordinator (H4-55)

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Attachment #1
Meeting and Summary of Commitments and Agreements

Unit Manager's Meeting: 100 Aggregate Area/100 Area Operable Units
October 21, 1992

1. SIGNING OF THE SEPTEMBER 100 AREA UNIT MANAGER'S MEETING MINUTES - Minutes were reviewed and approved with no changes.
2. ACTION ITEM UPDATE: (See Attachment 4 for complete status, items listed below indicate the update to Action Items made during the meeting):

1AAMS.5 No new information.

1AAMS.7 Closed 10/21/92. Regulators to provide a list of HEIS numbers to DOE (Eric Goller) to retrieve the information.

1AAMS.9 No new information.

1AAMS.15 No additional information.

1AAMS.16 No additional information.

3. NEW ACTION ITEMS (INITIATED OCTOBER 21, 1992):

1AAMS.17 Present IDW inspection report data per EII 4.3 for 100 Area investigations on a monthly basis beginning at the November UMM meeting.
Eric Goller

4. 100 AREA ACTIVITIES:

100 Area General Discussions - Steve Weiss presented the general information for the 100 Areas (see Attachment #6).

5. FIELD ACTIVITIES:

100-DR-1, 100-HR-1, 100-NR-1 Operable Units - Duane Jacques presented the 100-NR-1 OU Soil Gas Survey (see Attachment #5). Alan Krug presented the schedule on 100-HR-1; Jeff Ayres presented the sample status; Naik Naiknimbalkar presented the FY 1993 Activities for 100-DR-1; A. Krug presented the status of 100-NR-1 activities (see Attachment #7).

100-HR-3, 100-NR-2 Operable Units - A. Krug presented the status of these operable units (Attachment #8).

100-BC-1, 100-KR-1, 100-FR-1 Operable Units - Operable unit status: 100-BC-1 presented by Roberta Day; 100-KR-1 presented by N. Naiknimbalkar; and 100-FR-1 presented by J. Ayres. (See attachment #9.)

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100-BC-5, 100-KR-4, 100-FR-3 Operable Units - R. Day presented the status of these operable units (see attachment #10). EPA requested an update on the schedule for completion of well 199-F5-43B.

6. INFORMATION ITEMS

Treatability Studies - General discussions were led by Linda Bergmann.

Soil Washing Comment Resolution - Meeting is scheduled for October 26th from 1-3 pm at the EPA conference room.

100 NPL Agreement/Change Control Form #35 - The agreement was signed at this meeting (see attachment #11).

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100 Aggregate Area Unit Manager's Meeting
 Official Attendance Record
 October 21, 1992

Please print clearly and use black ink

PRINTED NAME	SIGNATURE	ORGANIZATION	O.U. ROLE	TELEPHONE
Suzanne Clarke	<i>Suzanne Clarke</i>	SWEC	GSSC to RL	372-0650
Eric Goller	<i>Eric Goller</i>	RL	100 Area UUM	376-7326
RE Day	<i>RE Day</i>	WHE	100 Areas	376-7100
Paul Beaver	<i>Paul Beaver</i>	EPA	Unit Mgr	6-8665
Diana Siekle	<i>Diana Siekle</i>	WHE	ER. Program	2-3141
Brian Drost	<i>Brian Drost</i>	USGS	EPA Support	206-543-6510
Audree DeAngelos	<i>Audree DeAngelos</i>	PRC	EPA Support	206-624-2692
Joseph Mollusky	<i>Joseph Mollusky</i>	PRC	EPA Support	206-624-2692
Kevin Oates	<i>Kevin Oates</i>	USACE	705 Support	522-6834
JIM PATTERSON	<i>Jim Patterson</i>	WHE	ER Program Office	376-0568
PAMELA INNIS	<i>Pamela Innis</i>	EPA	Unit Manager	376-4919
ROBERT HENCKEL	<i>Robert Henckel</i>	WHE	100 AREAS	376-2091
Steve Weiss	<i>Steve Weiss</i>	WHE	100 Aggregate Area	376-1683
Karl N. Pool	<i>Karl N. Pool</i>	WHE	OSM Support	373-3137
J.M. Ayres	<i>J.M. Ayres</i>	WHE	100-FR-1 100-FR-52	376-3918
Steve Cross	<i>Steve Cross</i>	Ecology	CERCLA	459-6675
Larry Gadbois	<i>Larry Gadbois</i>	EPA	Unit Manager	376-9884
Alan D. Krug	<i>Alan D. Krug</i>	WHE	100 Area Ecol. TL	376-5834
Jon Sprecher	<i>Jon Sprecher</i>	Brown & Caldwell	Ecology Support	(505) 244-7005
Bill Kane	<i>William F. Kane</i>	Parametrix	Ecology Support	206-822-8880
JEFF PHILLIPS	<i>Jeff Phillips</i>	Ecology	Unit Manager	(509) 546-2968
Richard Hibbard	<i>Richard Hibbard</i>	Ecology	EA Unit	(206) 453-9322
CHARLES CLINE	<i>Charles Cline</i>	"	NR/ER J. Mgr	(206) 438-755
Kyle Turner	<i>Kyle Turner</i>	D&M	GSSC	946-4953
N.M. Naiknimbalkar	<i>N.M. Naiknimbalkar</i>	WHE	100-DR-1/DR2 100-FR-1	376-8739

Attachment #3
Agenda

Unit Manager's Meeting: 100 Aggregate Area/100 Area Operable Units
October 21, 1992

100 Area General Discussions

100-DR-1, 100-HR-1, 100-NR-1 OU's - Alan Krug

- Activity Status
- General Discussions

100-HR-3, 100-NR-2 - Steve Vukelich

- Activity Status
- General Discussions

100-BC-5, 100-KR-4, 100-FR-3 OU's - Jim Roberts

- Activity Status
- General Discussions

100-BC-1, 100-KR-1, 100-FR-1 OU's- Roberta Day

- Activity Status
- General Discussions

Treatability Studies

- General Discussions - Linda Bergmann

Other

- Action Item Status - All

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Attachment #4
Action Item Status List

Unit Manager's Meeting: 100 Aggregate Area/100 Area Operable Units
October 21, 1992

ITEM NO.	ACTION	STATUS
1AAMS.5	Ecology and EPA are to be provided with sampling data on mulberries from N-Springs as well as data from the vegetation eradication program. The specific herbicides that were used are to be included. Action: T. Poston and J. Goodenough. (1/23/92)	Open. Confirm that letter went out 6/24/92. Submitted to DOE on 5/18/92. (8/26/92). Contact Heather Trumble (RL) for information (9/23/92). No new information (10/21/92).
1AAMS.7	Provide information to the regulators on how to retrieve rad counting data from the 222-S Lab. Action to Jeff Lerch (2/27/92). Action: Karl Pool (6/24/92)	Closed (10/21/92). Regulators to provide a list of HEIS numbers to DOE (Eric Goller) to retrieve the information.
1AAMS.9	DOE shall send a letter to Ecology, suggested from S. H. Wisness to D. Jansen with a cc. to EPA, explaining what is included in the ER Program for the N Reactor Area and how the multiple programs will be handled organizationally. Action to J. D. Goodenough (2/27/92). Action: E. D. Goller (5/27/92).	Open. Related to the N Areas Issues Papers. No answer 7/29/92. No additional information (8/26/92). On General Topics Agenda for October (9/23/92). No new information (10/21/92).
1AAMS.12	Ecology requested that sampling on oil and grease well network be restarted in down-gradient wells N-3, N-8, and N-16 through N-26 (5/22/92 letter to Eric Goller from Steve Cross). Action to E.D. Goller (RL) 5/27/92	Closed (9/23/92). No action 7/29/92. Draft NR-2 GW monitoring network in DOE review. Expect to resolve by Sept. UMM (8/26/92). Based on a letter to Ecology concerning 100-NR-2 well monitoring network.
1AAMS.14	Schedule a presentation on the Hanford Site Past Practice Strategy targeted for the middle-to-latter part of August. Action: Eric Goller (RL) (7/29/92).	Closed (9/23/92) at General Topics Meeting.

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ITEM NO.	ACTION	STATUS
1AAMS.15	Provide response to April 2 EPA letter concerning river seeps. Action: Eric Goller (RL) 7/29/92.	Open (7/29/92). In DOE for transmittal (8/26/92). No additional information (9/23/92) (10/21/92) .
1AAMS.16	DOE should transmit Revision 1 of M-30-01.	Open (7/29/92). In DOE for transmittal (8/26/92). No additional information (9/23/92) (10/21/92) .
1AAMS.17	Present IDW inspection report data per EII 4.3 for 100 Area investigations on a monthly basis beginning at the November UMM meeting. Action: Eric Goller	Open (10/21/92).

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Attachment #4b

Action Item Status List

Unit Manager's Meeting: 100 Aggregate Area/100 Area Operable Units
October 21, 1992

ITEM NO.	ACTION	STATUS
1AAMS.5	Ecology and EPA are to be provided with sampling data on mulberries from N-Springs as well as data from the vegetation eradication program. The specific herbicides that were used are to be included. Action: T. Poston and J. Goodenough. (1/23/92)	Open. Confirm that letter went out 6/24/92. Submitted to DOE on 5/18/92. (8/26/92). Contact Heather Trumble (RL) for information (9/23/92). No new information (10/21/92).
1AAMS.7	Provide information to the regulators on how to retrieve rad counting data from the 222-S Lab. Action to Jeff Lerch (2/27/92). Action: Karl Pool (6/24/92)	Open. How does WHC get their data for shipping? Working with the sampling organization that receives the lab analyses to obtain the data and will work on getting the information to the regulators (8/5/92). No additional information (8/26/92), (10/21/92).
1AAMS.9	DOE shall send a letter to Ecology, suggested from S. H. Wisness to D. Jansen with a cc. to EPA, explaining what is included in the ER Program for the N Reactor Area and how the multiple programs will be handled organizationally. Action to J. D. Goodenough (2/27/92). Action: E. D. Goller (5/27/92).	Open. Related to the N Areas Issues Papers. No answer 7/29/92. No additional information (8/26/92). On General Topics Agenda for October (9/23/92). No new information (10/21/92).
1AAMS.15	Provide response to April 2 EPA letter concerning river seeps. Action: Eric Goller (RL) 7/29/92.	Open (7/29/92). In DOE for transmittal (8/26/92). No additional information (10/21/92).
1AAMS.16	DOE should transmit Revision 1 of M-30-01.	Open (7/29/92). In DOE for transmittal (8/26/92). No additional information (10/21/92).

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**100-NR-1 Operable Unit
Soil Gas Survey**

**Duane Jacques
Environmental Restoration
October 21, 1992**

100-NR-1 Soil Gas Survey

I. 100-N Fuel Systems

- o 1.4 million gallon No. 6 fuel oil aboveground storage tank inside a soil berm.**
- o Four 105,000 gallon No. 2 diesel oil aboveground storage tank inside a separate soil berm.**
- o Oil unloading stations and pump house.**

II. Spill History

- o 80,000 gallon diesel oil spill in 1966. Significant ground water contamination. Interceptor trench.**
- o Several small (about 200 gallon) spills.**

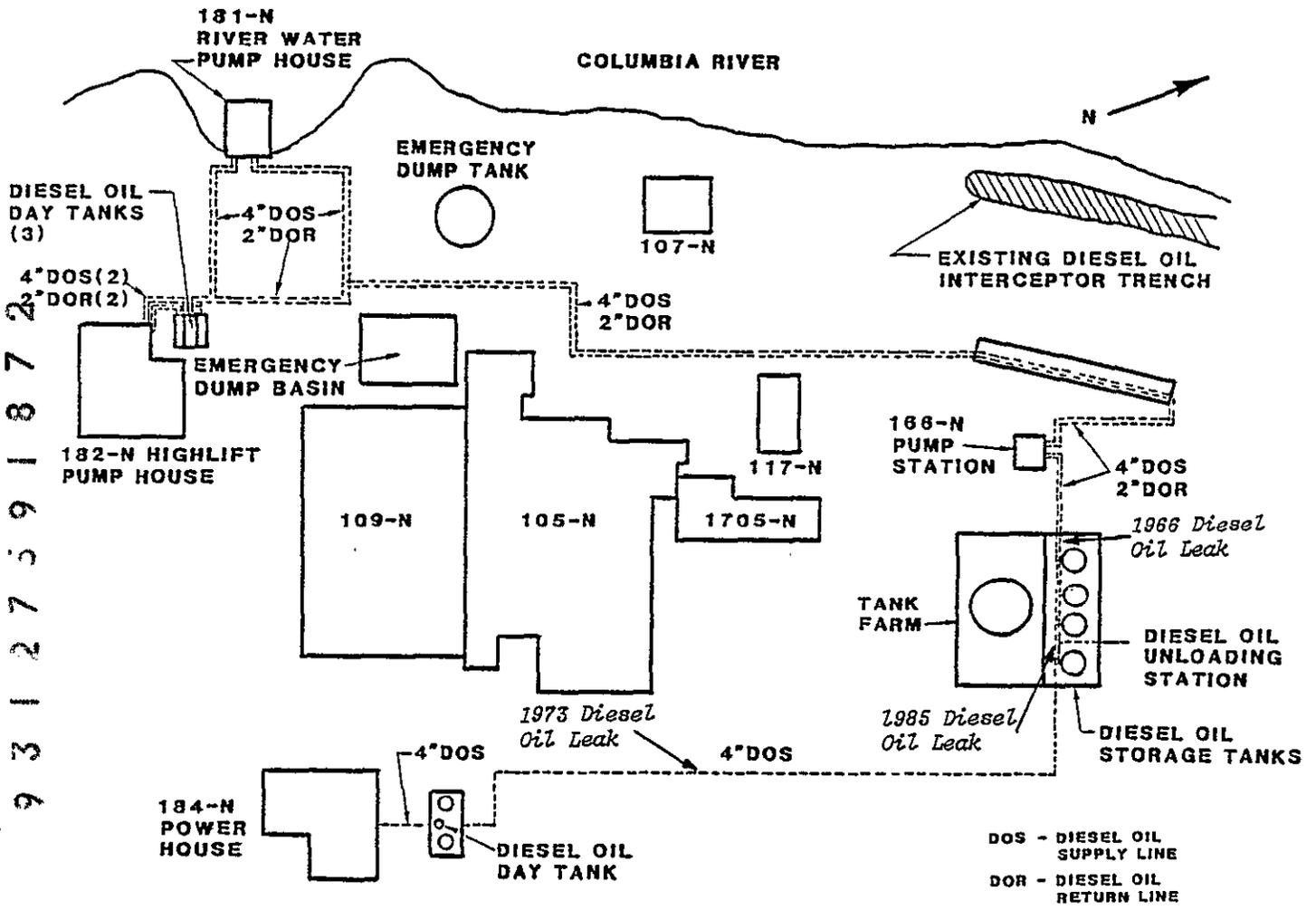
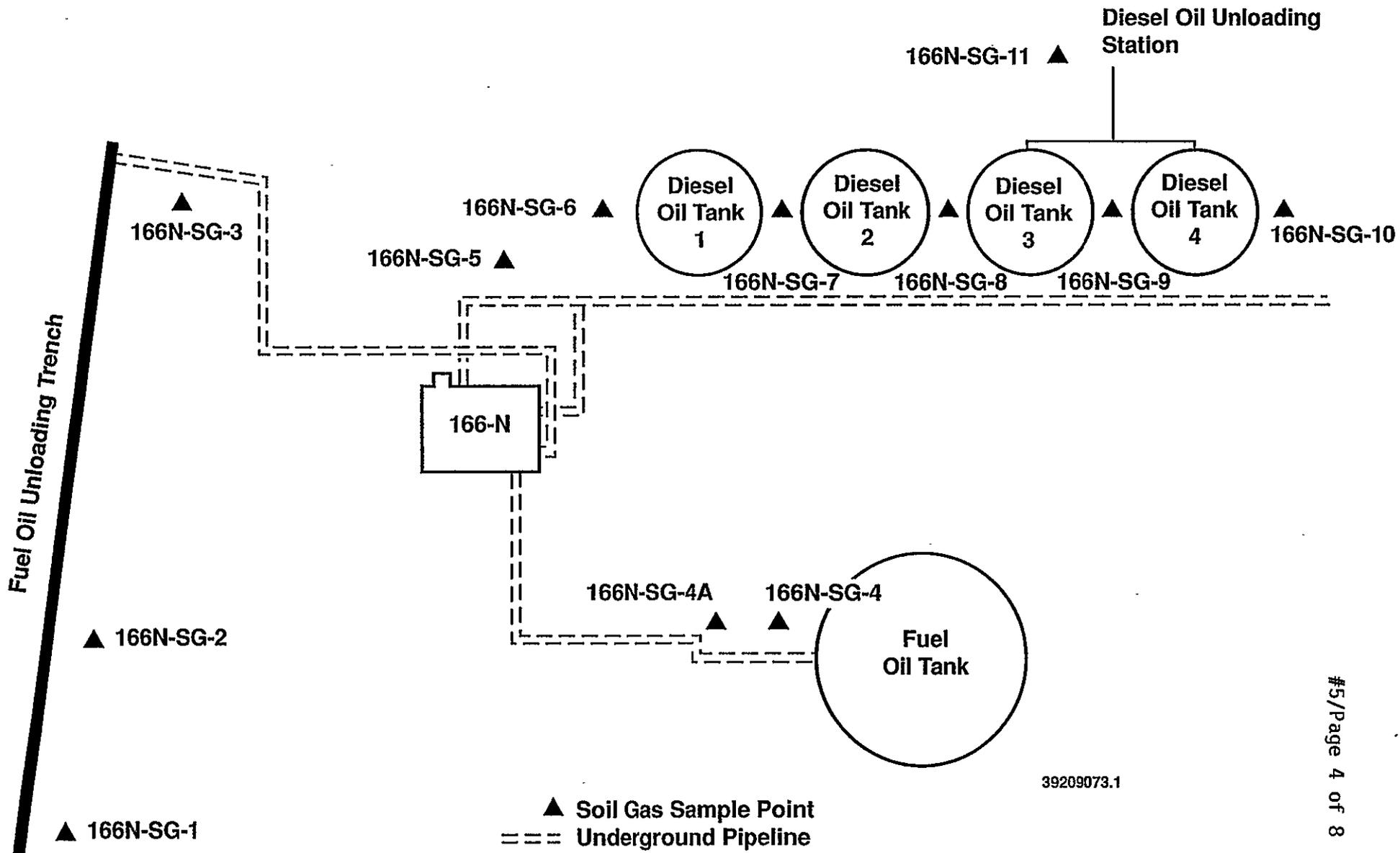


Figure 2.2 Diesel Oil Storage Tanks, Day Tanks, and Transfer Piping at 100-N Area



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100-NR-1 Soil Gas Survey

- o Chronic spills of fuel oil, diesel oil, and fuel oil additives at unloading stations.**

III. Soil Gas Survey

- o Identify areas where petroleum products may have been released to the subsurface soils.**
- o Dedicated soil gas probes installed on August 21 and 24, 1992.**
- o Soil samples were screened for TPH. Soil gas was screened for organic vapors.**

100-NR-1 Soil Gas Survey

IV. Summary

- o Appears to be no detectable concentrations of volatile compounds associated with petroleum products.**
- o Appears to be regions where the soil may contain residual petroleum hydrocarbons (TPH) above the State action level of 200 ppm.**

Fuel oil and diesel oil unloading stations

Within diesel oil tank berm

100-NR-1 Soil Gas Survey

- o Field screening indicates evidence of potential biodegradation of petroleum products.**

Soil vapors appear to contain methane gas

Soil vapors are O₂ deficient and CO₂ rich

- o Soil gas results indicate fuel oil additives may have contributed to regions of soil contamination.**

Trace concentrations of perchloroethylene (PCE) were identified in soil gas collected near the fuel oil unloading station.

100-NR-1 Soil Gas Survey

The fuel oil additive Nalco 158, manufactured prior to 1978, contained approximately 15% PCE. This is the probable source of the soil gas contaminant.

The PCE concentrations do not appear to be associated with the ground water. Ground water samples collected in 1989 contained less than 5 ppb PCE.

100 Area General Discussions

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Status of 100-Area Wide Activities

River Impact Studies

Regulator Review of Columbia River Impact Evaluation Plan: Regulator review and comment negotiations in progress.

Sediment Sampling, DOW in clearance, project tentatively scheduled to start in November.

Cultural Resources Investigations

Evaluations of past excavations (from 100-K) and consultations with State Historic Preservation Office in progress

Secondary Report Preparation for FY 1992 activities, in preparation, to be completed in Feb 1993

Ecological Investigations

Data Compilation/Synthesis, in clearance. Publication expected in November.

Aquatic Sampling, report expected in November.

Terrestrial & Riparian sampling, 100% completed, only "significant " radionuclides found at 100-K (not all results back from lab yet). 35 pCi/g strontium-90 in mulberry tree from downstream of K area. (Separate presentation)

Threatened and Endangered Species Assessments (Bald Eagle Plan, Bio. Assessment for T&E wildlife), final drafts in DOE-RL-TSD for review, then to be sent to US Fish and Wildlife Service and Washington Department of Wildlife.

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STRONTIUM-90BELOW 100-H AREA

MEDIA	AMOUNT (pCi/g)	SAMPLE NUMBER
Mulberry Tree Leaves	2.6 ± 0.45	B06N53 (unvalidated)
Spring Water	12.7 ± 1.4 pCi/L	B06L61

BELOW 100-K AREA

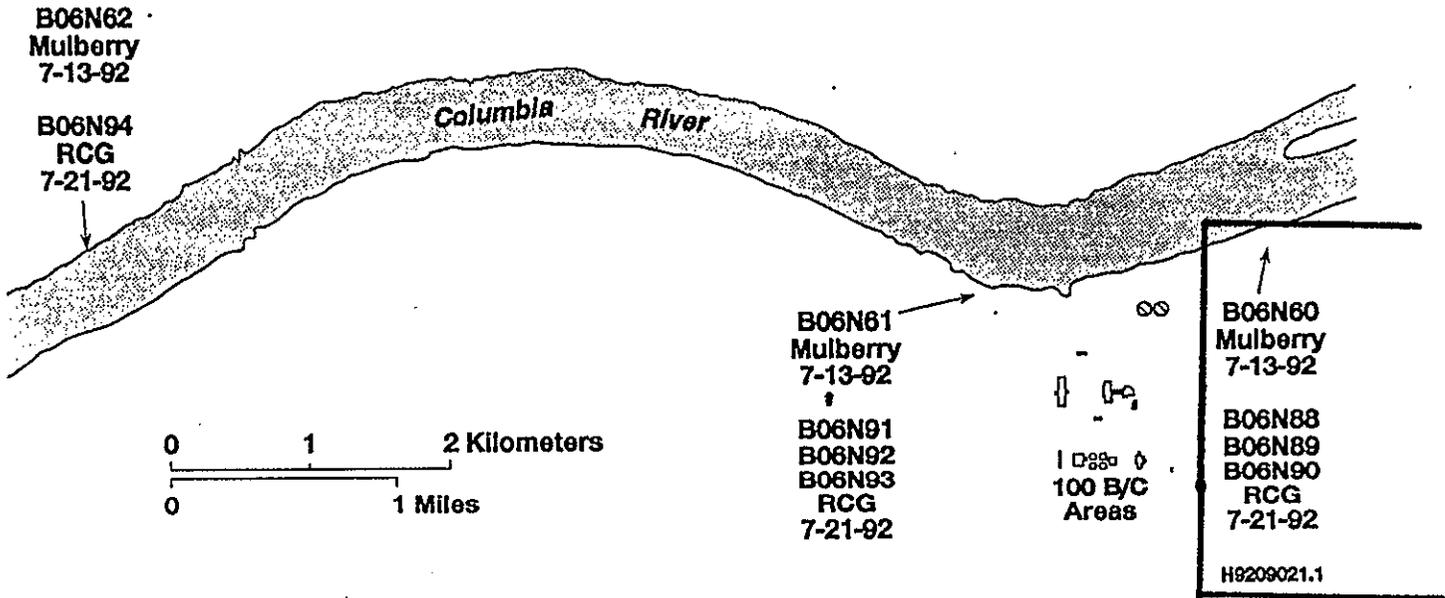
MEDIA	AMOUNT	SAMPLE NUMBER
Mulberry Tree Leaves	35 ± 4.5	B06N58 (unvalidated)
Reed Canary Grass	0.011 ± 0.21	B06N84 (unvalidated)
Spring Water	8.8 ± 0.6 pCi/L	B06KS9

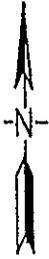
BELOW 100-B/C AREA

MEDIA	AMOUNT	SAMPLE NUMBER
Mulberry Tree Leaves	6.8 ± 0.68	B06N60 (unvalidated)
Reed Canary Grass	-0.1 ± 0.6	B06N88 (unvalidated)
Reed Canary Grass	-0.34 ± 1.0	B06N89 (unvalidated)
Reed Canary Grass	0.27 ± 0.31	B06N90 (unvalidated)
Spring Water	<1 pCi/L	B06KS4

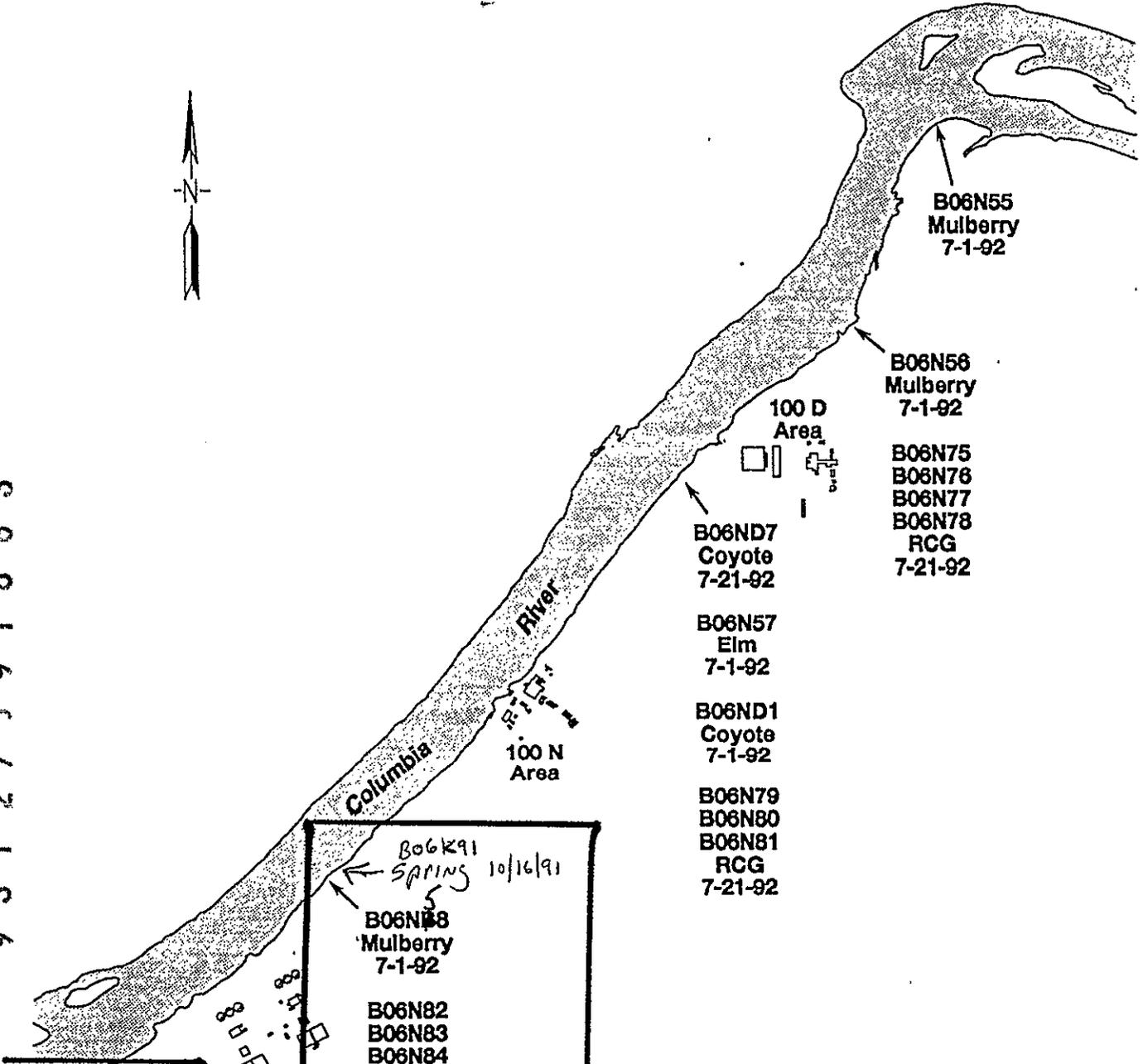
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B06N55
Mulberry
7-1-92

B06N56
Mulberry
7-1-92

B06N75
B06N76
B06N77
B06N78
RCG
7-21-92

B06ND7
Coyote
7-21-92

B06N57
Elm
7-1-92

B06ND1
Coyote
7-1-92

B06N79
B06N80
B06N81
RCG
7-21-92

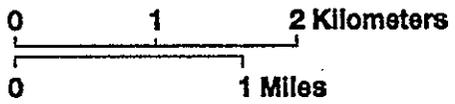
B06K91
SPRINGS 10/16/91

B06N88
Mulberry
7-1-92

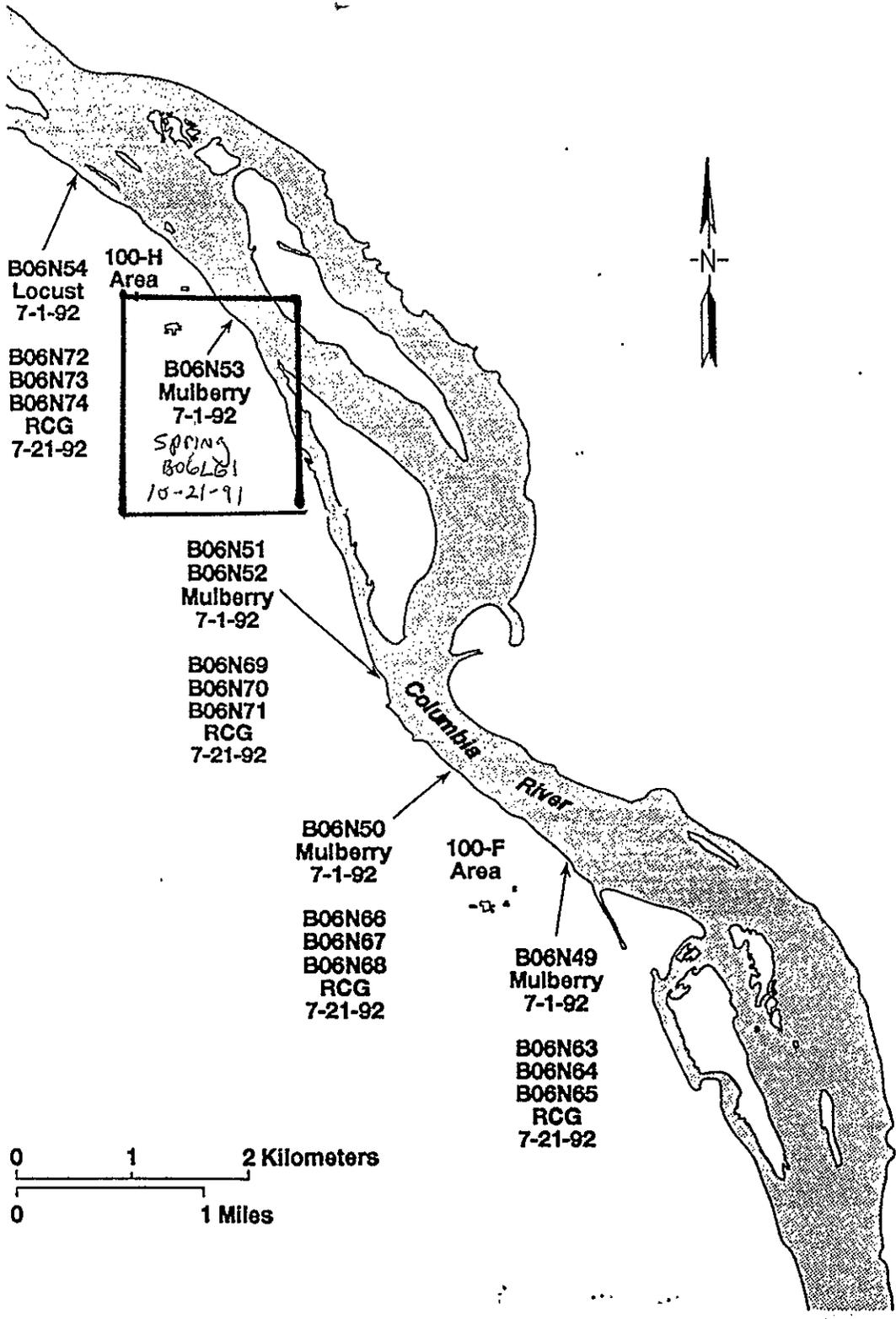
B06N82
B06N83
B06N84
RCG
7-21-92

B06N89
Mulberry
7-13-92

B06N85
B06N86
B06N87
RCG
7-21-92



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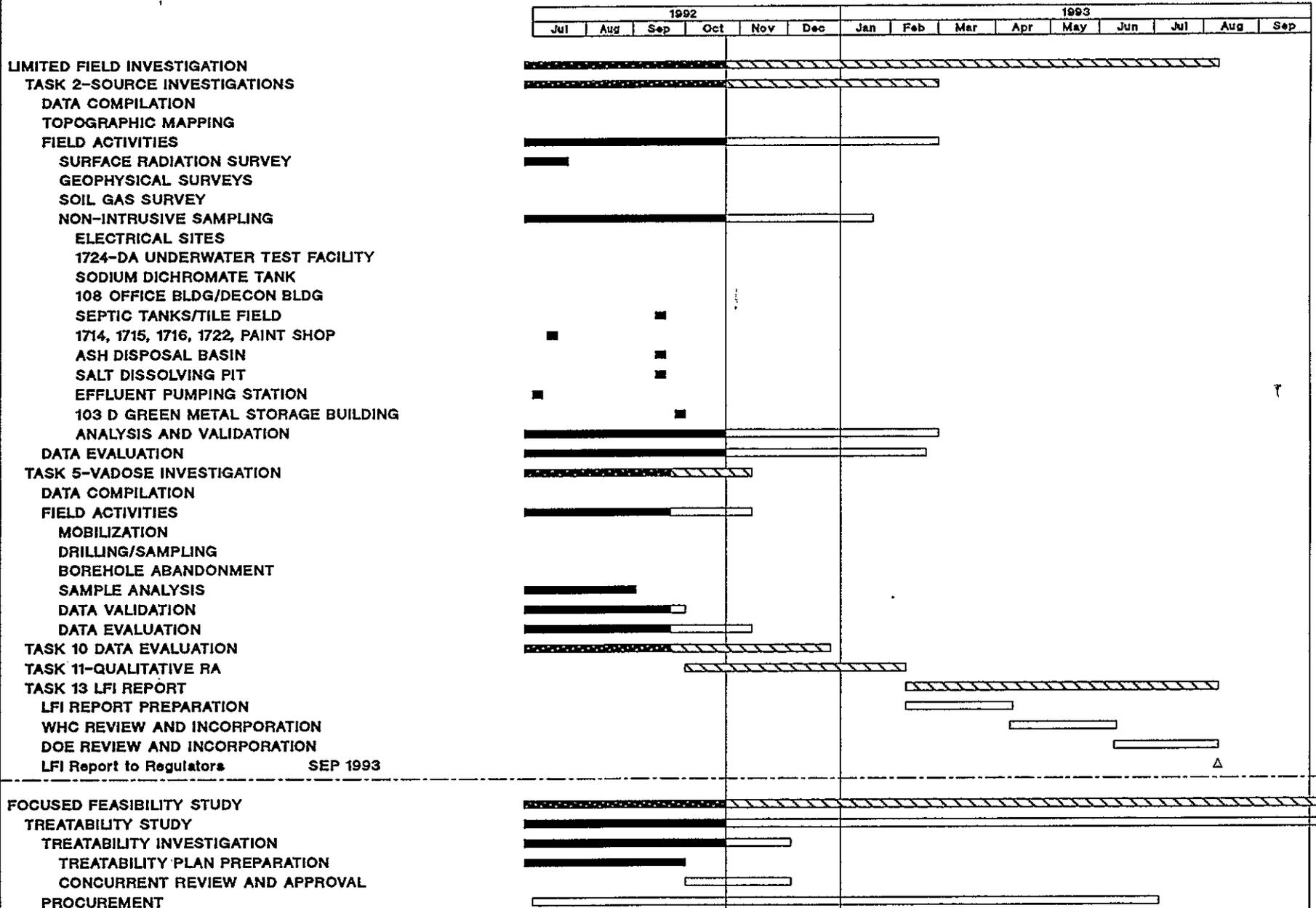


100-DR-1, 100-HR-1, 100-NR-1 OUs
Alan Krug

RECEIVED

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100-DR-1 OPERABLE UNIT



Data Date
22 Oct 92

Project: 100-DR-1	DOE-RL 89-09, REV 0	Date: 20Oct92 10:42
100-DR-1 OPERABLE UNIT WORK PLAN		
Page: 1	Drawn by ER Program Control-Scheduling	

Summary 
Progress 

FY 1993 Activities for 100-DR-1
N.M. Naiknimbalkar

100-DR-1 DATA VALIDATION STATUS

Vadose Data Validation:

100 percent of the chemical data has been provided to A.T. Kearney for validation.

80 percent of the rad data has been provided to A.T. Kearney for validation.

The remainder of the rad data is in the process of being transmitted.

Non-Intrusive Data Validation:

The data is being provided to A.T. Kearney for validation and the report is expected to be completed by January 1993.

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100-HR-1 OPERABLE UNIT

LIMITED FIELD INVESTIGATION

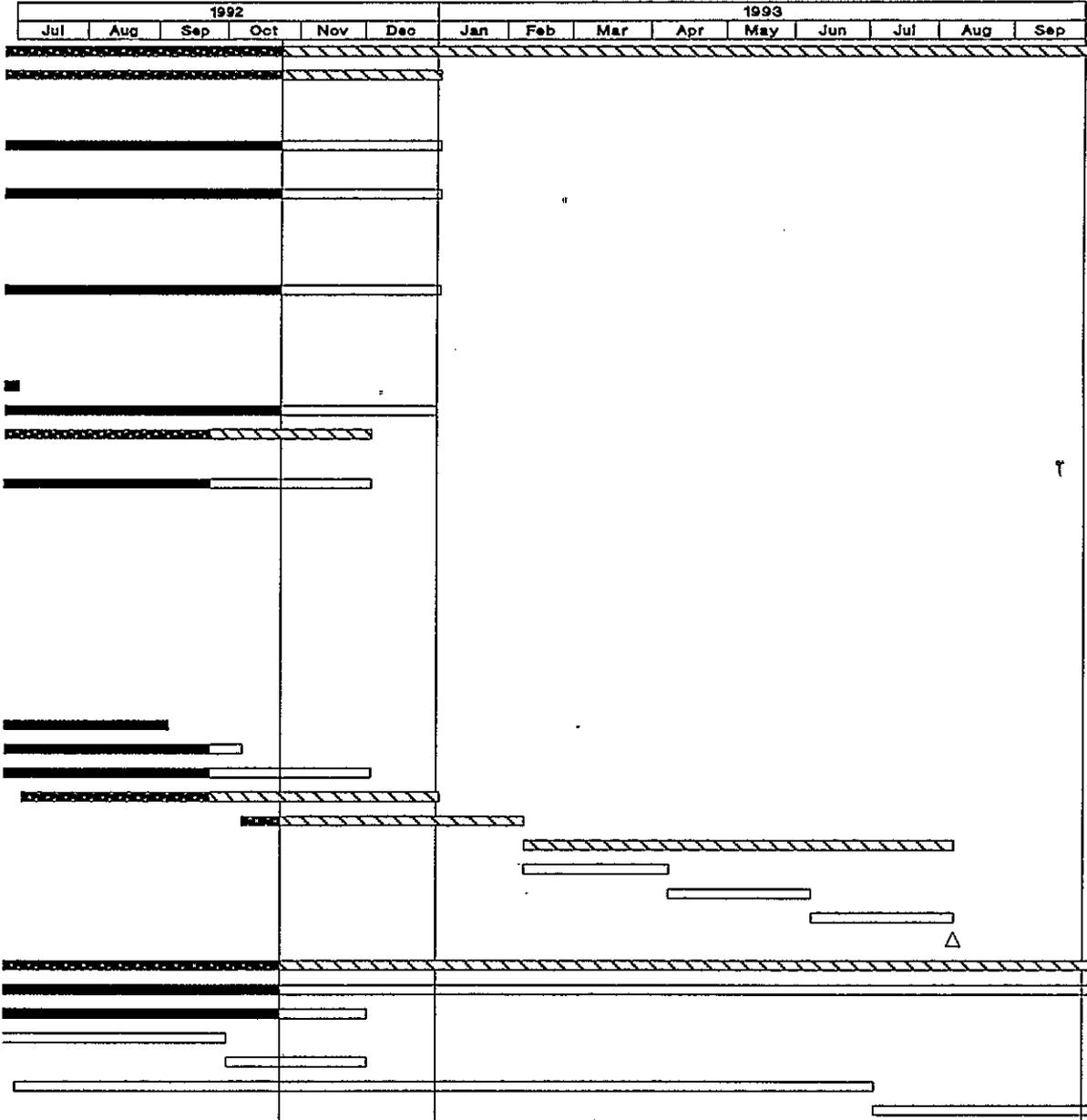
- Task 2-Source Investigation
 - Data Compilation Complete
 - Topographic Mapping Complete
 - Field Activities
 - Surface Radiation Survey Complete
 - Septic Tank Sampling and Analysis
 - 1607-H2 Septic Tank Complete
 - Analysis Complete
 - 1607-H4 Septic Tank Complete
 - Analysis and Validation
 - Pipeline Assessment Complete
 - Geophysical Surveys Complete
 - Sample Electrical Facilities Complete
 - Electrical Analysis and Validation Complete

- Task 5-Vadose Investigation
 - Data Compilation Complete
 - Field Activities Complete
 - Mobilization Complete
 - Drilling and Sampling Complete
 - Borings Complete
 - 116-H-2 Trench Complete
 - 116-H-3 French Complete
 - 116-H-9 Seal Pit Crib Complete
 - 116-H-1 Trench Complete
 - 116-H-7 Retention Basin Complete
 - Borehole Abandonment Complete
 - Sample Analysis
 - Data Validation
 - Data Evaluation

- Task 10-Data Evaluation
- Task 11-Qualitative RA
- Task 13-LFI Report
 - Report Preparation
 - WHC Review & Incorporation
 - DOE Review & Incorporation
 - LFI Report to Regulators

FOCUSED FEASIBILITY STUDY

- Treatability Study
 - Treatability Investigation
 - Treatability Plan Preparation
 - Concurrent Review and Approval
- Procurement
- Treatability Activities



Summary [Hatched box]
 Progress [Solid black box]

Data Date
 22 Oct 92

Project: 100-HR-1 | DOE-RL 88-35, REV 0 | Date: 15Oct92 10:22
 100-HR-1 OPERABLE UNIT WORK PLAN
 Page: 1 | Drawn by ER Program Control-Scheduling

100-HR-1 OPERABLE UNIT

LIMITED FIELD INVESTIGATION

- Task 2-Source Investigation
 - Data Compilation Complete
 - Topographic Mapping Complete
 - Field Activities
 - Surface Radiation Survey Complete
 - Septic Tank Sampling and Analysis
 - 1607-H2 Septic Tank Complete
 - Analysis Complete
 - 1607-H4 Septic Tank Complete
 - Analysis and Validation
 - Pipeline Assessment Complete
 - Geophysical Surveys Complete
 - Sample Electrical Facilities Complete
 - Electrical Analysis and Validation Complete

- Task 5-Vadose Investigation
 - Data Compilation Complete
 - Field Activities Complete
 - Mobilization Complete
 - Drilling and Sampling Complete
 - Borings Complete
 - 116-H-2 Trench Complete
 - 116-H-3 French Complete
 - 116-H-9 Seal Pit Crib Complete
 - 116-H-1 Trench Complete
 - 116-H-7 Retention Basin Complete
 - Borehole Abandonment Complete
 - Sample Analysis
 - Data Validation
 - Data Evaluation

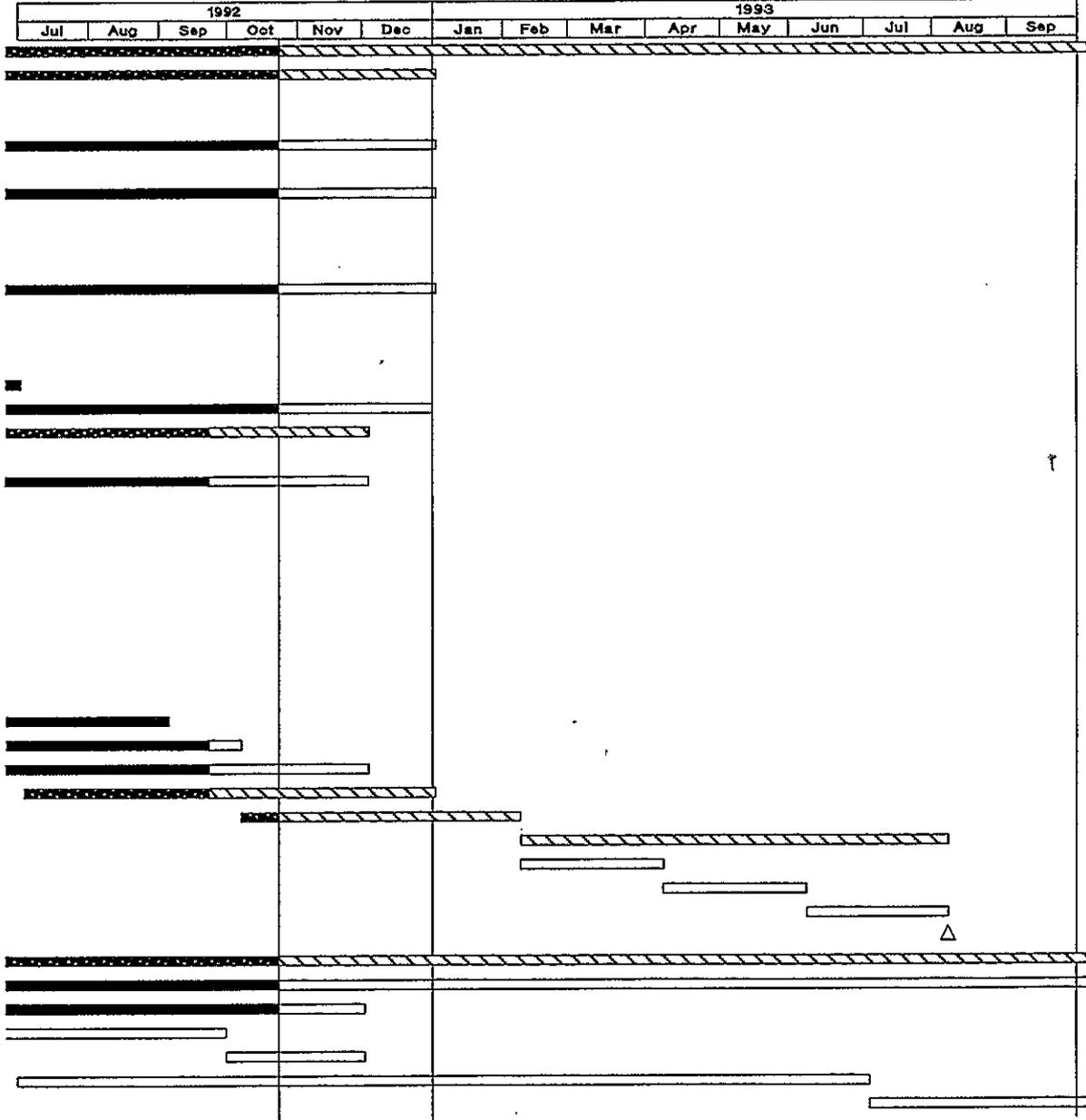
Task 10-Data Evaluation

Task 11-Qualitative RA

- Task 13-LFI Report
 - Report Preparation
 - WHC Review & Incorporation
 - DOE Review & Incorporation
 - LFI Report to Regulators

FOCUSED FEASIBILITY STUDY

- Treatability Study
 - Treatability Investigation
 - Treatability Plan Preparation
 - Concurrent Review and Approval
- Procurement
- Treatability Activities



Data Date
22 Oct 92

Summary
 Progress

Project: 100-HR-1	DOE-RL 88-35, REV 0	Date: 15Oct92 10:22
100-HR-1 OPERABLE UNIT WORK PLAN		
Page: 1	Drawn by ER Program Control-Scheduling	

100-HR-1 SAMPLE STATUS

- √ Site characterization samples for 1607-H-2 Septic tanks, electrical facilities, and vadose boreholes have been analyzed and submitted to EDMC for reproduction and validation (A.T. Kearney).
- √ Samples from 1607-H-2 Septic tank and the Electrical facilities have been validated. Reports are expected during the week of 19 Oct 92.
- √ The 100-HR-1 Vadose borehole samples were delayed due to several Non-Conformance reports (NCR) on missed holding times. The NCRs have been dispositioned and the samples are in the process of being validated.
- √ The 1607-H-4 Septic tank samples have not been received from the laboratory. These samples were taken on 3 Aug 92. Validation is expected to be complete in Jan 93.
- √ Approximately 34% of the 100-HR-1 site characterization samples have been validated at this time.

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100-NR-1 OPERABLE UNIT

1992						1993								
Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep

LIMITED FIELD INVESTIGATION

Task 2- Source Investigation

Data Compilation

Surface Radiation

Soil Gas Survey

Data Evaluation

Task 5-Vadose Investigation

Field Activities

Drilling/Sampling

120-N-2

119-N

1322-N

Settling Pond

166-N

116-N-2

Test Pit 120-N-1

Borehole Abandonment

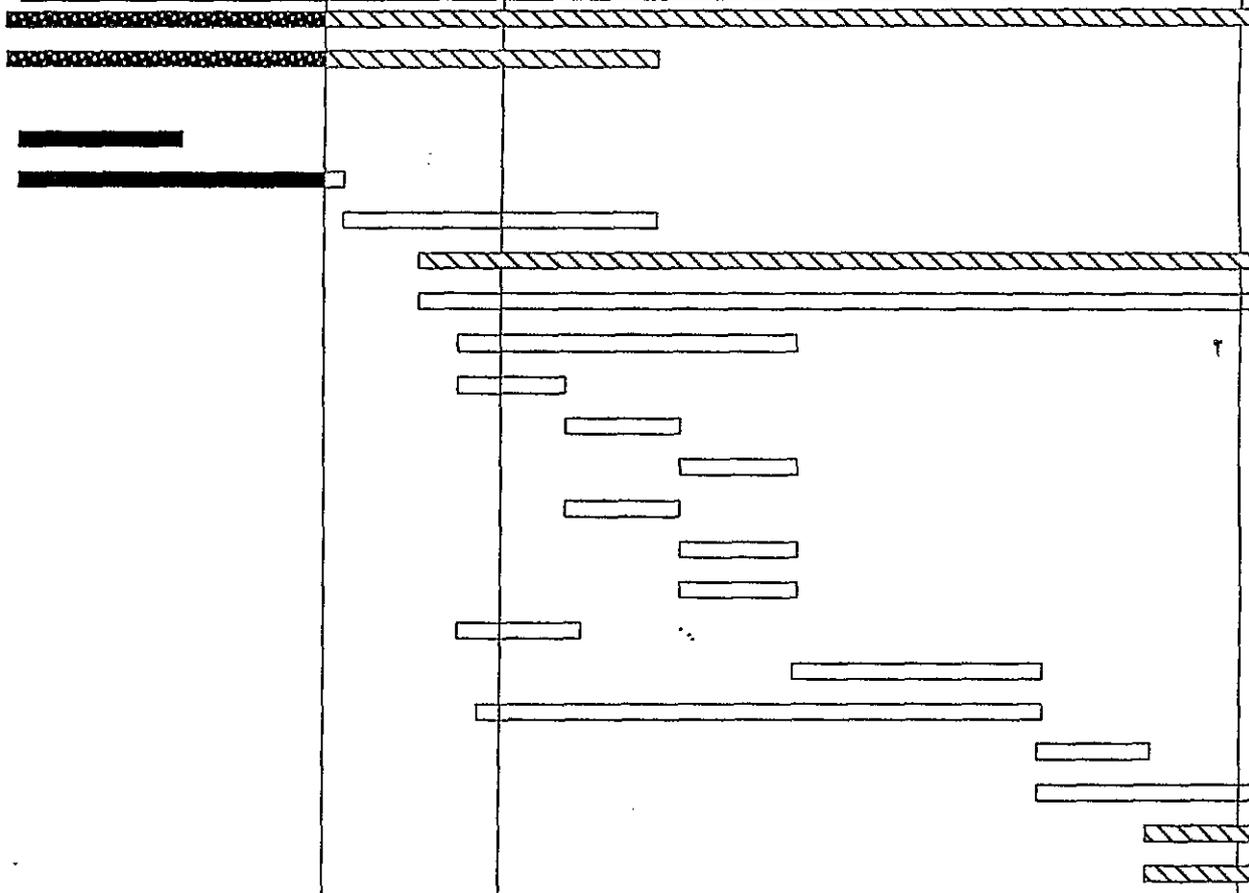
Sample Analysis

Data Validation

Data Evaluation

Task 10-Data Evaluation

Task 11-Qualitative RA



Data Date
22 Oct 92

Summary 
Progress 

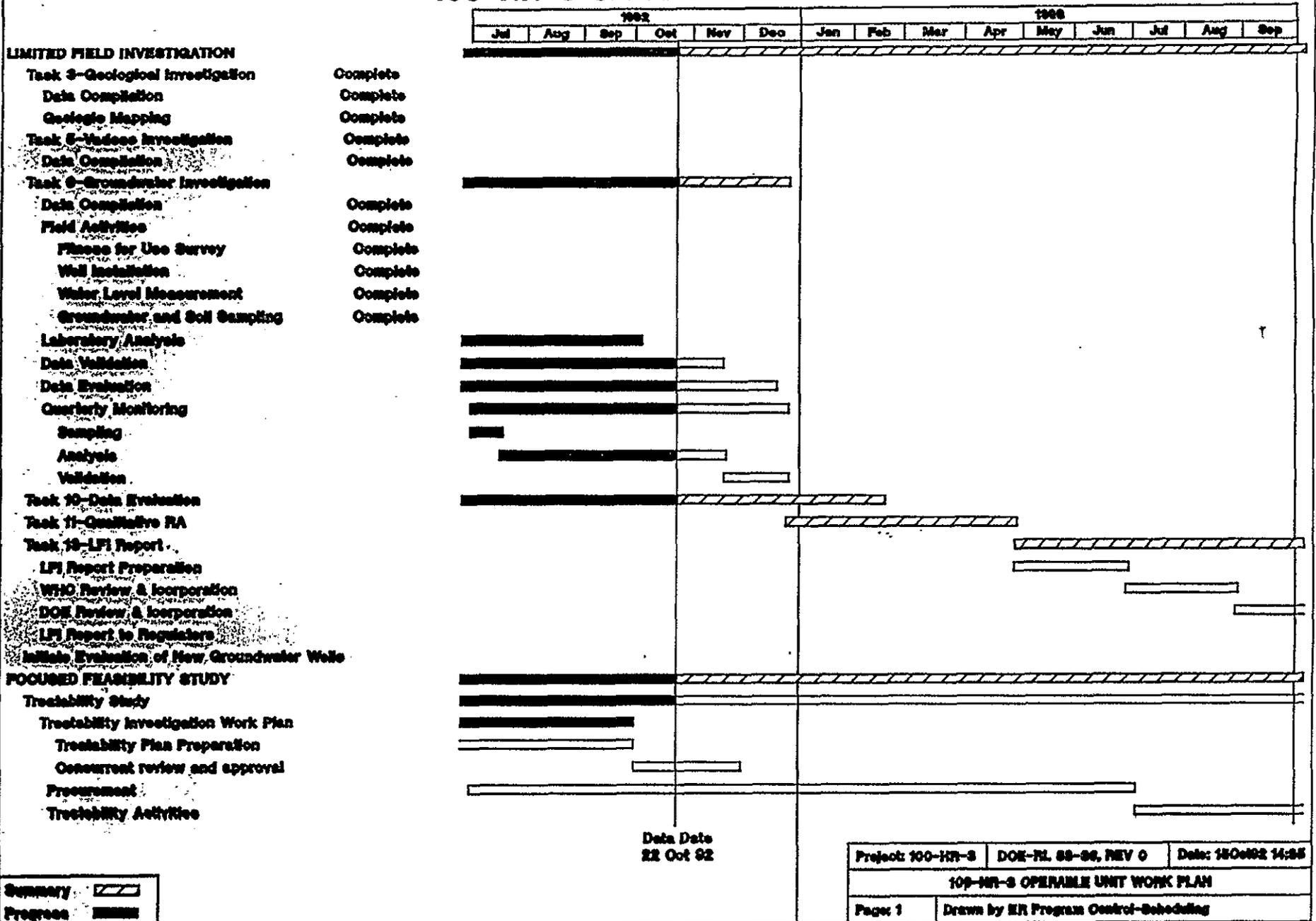
Project: 100-NR-1	DOE-RL	Date: 19Oct92 9:58
100-NR-1 OPERABLE UNIT WORK PLAN		
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100-HR-3, 100-NR-2 OUs
Steve Vukelich

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100-HR-3 OPERABLE UNIT



Data Date
22 Oct 92

Project: 100-HR-3	DOE-PL 89-06, REV 0	Date: 15Oct92 14:35
100-HR-3 OPERABLE UNIT WORK PLAN		
Page: 1	Drawn by ER Program Control-Scheduling	

Summary:
 Progress:

100 HR-3 DATA VALIDATION STATUS

Soil Samples

- * 100% of chemical and rad data is at A.T. Kearney for validation.
- * Approximately 5% has been validated.

Groundwater Samples

First Round

- * 100% of chemical and rad data is at A.T. Kearney for validation.
- * No data has been validated.

Second Round

- * Approximately 10% of the chemical data has returned from the labs.

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100 HR-3 DATA VALIDATION STATUS

Soil Samples

- * 100% of chemical and rad data is at A.T. Kearney for validation.
- * Approximately 5% has been validated.

Groundwater Samples

First Round

- * 100% of chemical and rad data is at A.T. Kearney for validation.
- * No data has been validated.

Second Round

- * Approximately 10% of the chemical data has returned from the labs.

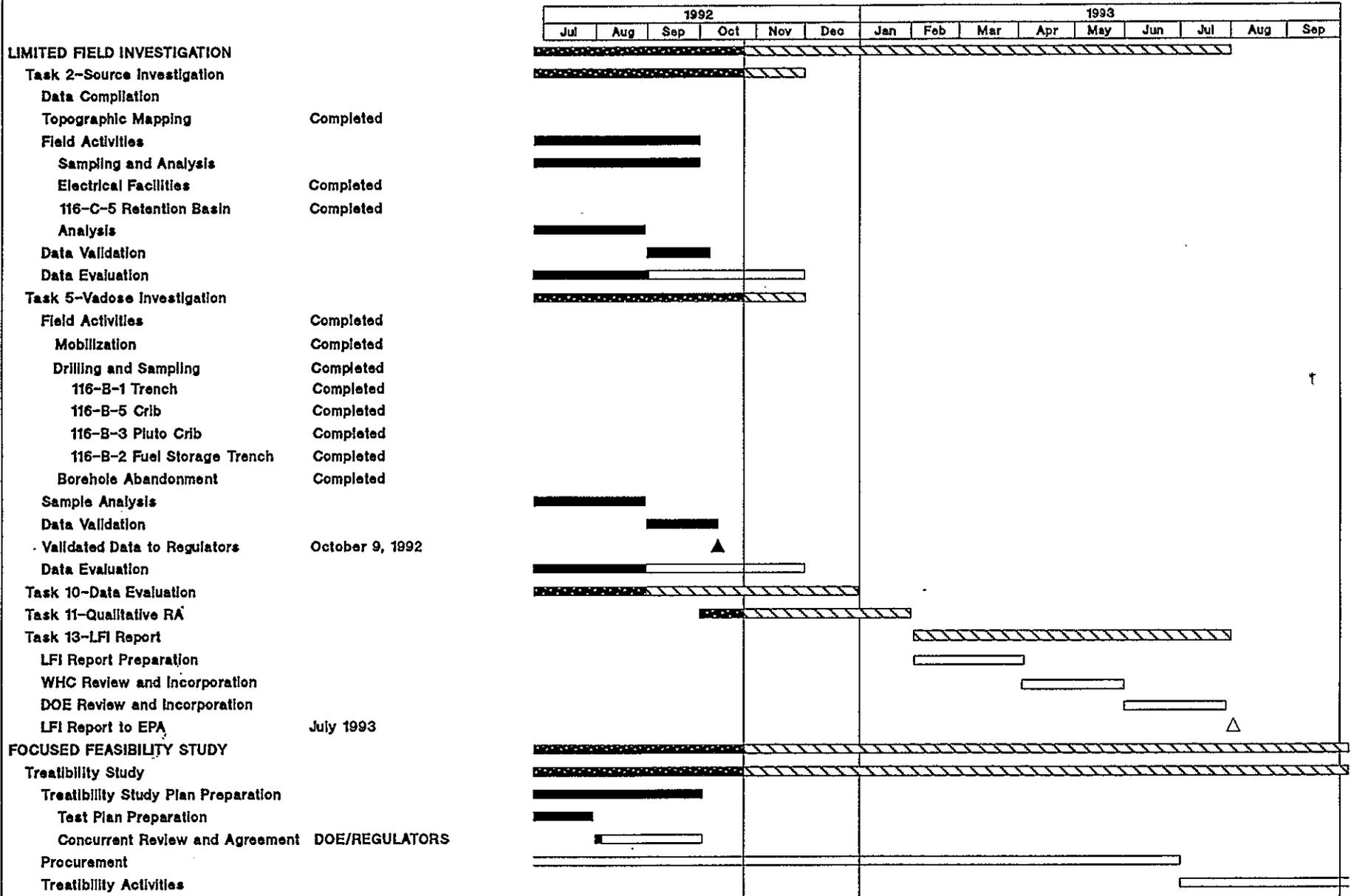
93127591895

100-BC-1, 100-KR-1, 100-FR-1 OUs

93127591897

9 3 1 2 7 5 9 1 3 9 8

100-BC-1 OPERABLE UNIT



Data Date
22 Oct 92

Project: 100-BC-1 DOE-RL 90-07, REV 0 Date: 15Oct92 9:31

100-BC-1 OPERABLE UNIT WORK PLAN

Page: 1 Drawn by ER Program Control-Scheduling

Summary Task [Hatched Box] Progress [Solid Black Box]
Detail Task [White Box] Milestone [Triangle]

100-BC-1 SOURCE OPERABLE UNIT WORK SUMMARY
October 21, 1992

Task 2 - Source Investigation:

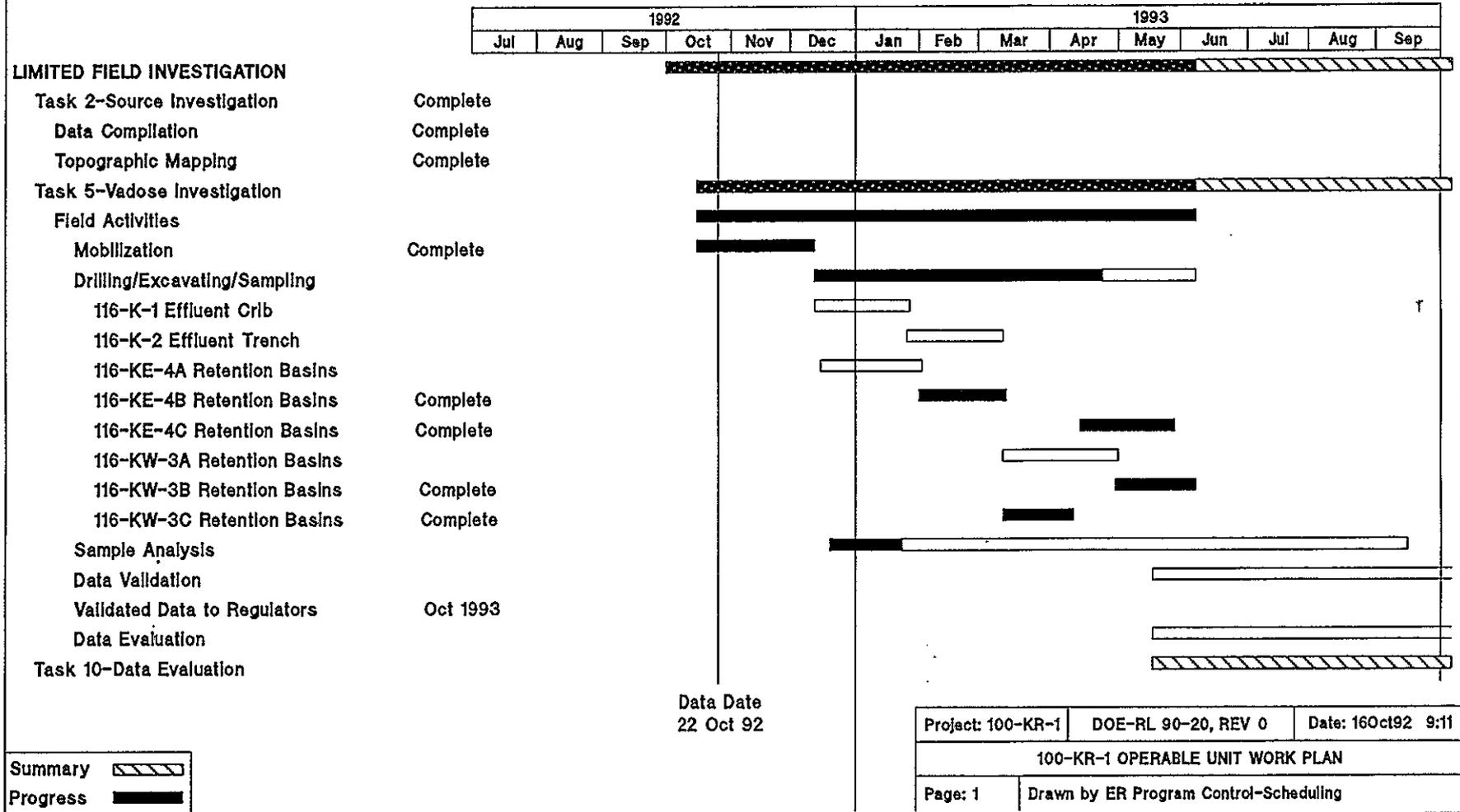
Field activities are complete. Sample analysis is complete. Data validation is complete. Interim milestone M-15-08A has been met.

Task 5 - Vadose Investigation:

Field activities are complete. Sample analysis is complete. Data validation is complete. Interim milestone M-15-08A has been met.

93127591899

100-KR-1 OPERABLE UNIT



Excavating and Sampling was completed
in September 1992

100-FR-1 OPERABLE UNIT

LIMITED FIELD INVESTIGATION

Task 2-Source Investigation

Data Compilation

Topographic Mapping

Field Activities

Source Sampling

132-F-1 Chronic Feeding Barn

Sample Analysis

Data Validation

Data Evaluation

Task 5-Vadose Investigation

Field Activities

Mobilization

Drilling/Excavation and Sampling

116-F-6 Liquid Waste Disposal Trench

116-F-3 Fuel Storage Trench

116-F-1A Lewis Canal

116-F-1B Lewis Canal Test Pit

116-F-1C Lewis Canal Test Pit

116-F-14 Retention Basin

116-F-2 Basin Overflow Trench

108-F French Drain

116-F-9A Animal Waste Trench-BH

116-F-9B Animal Waste Trench-BH

116-F-9C Animal Waste Trench-BH

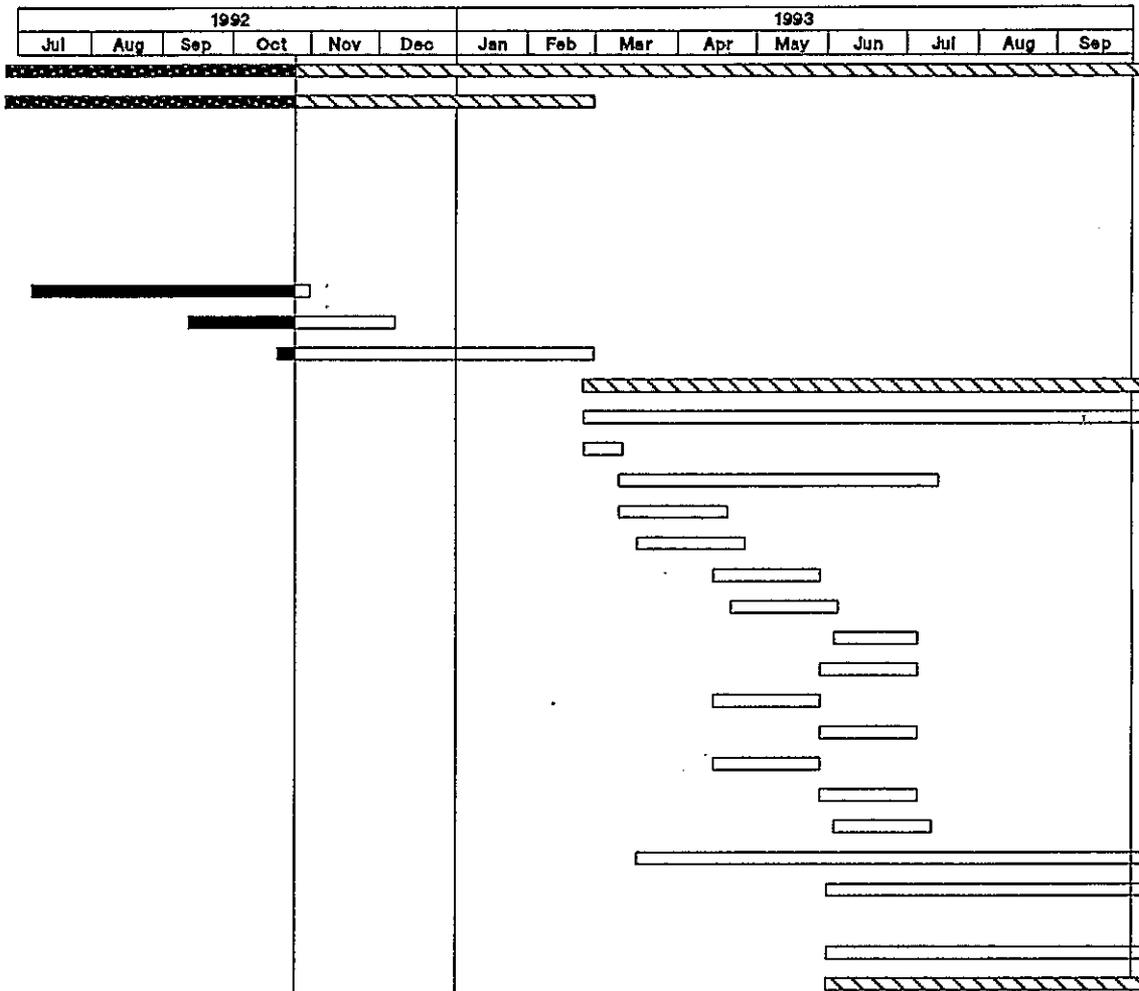
Sample Analysis

Data Validation

Validated Data to Regulators Nov 1993

Data Evaluation

Task 10-Data Evaluation



Data Date
22 Oct 92

Summary
 Progress

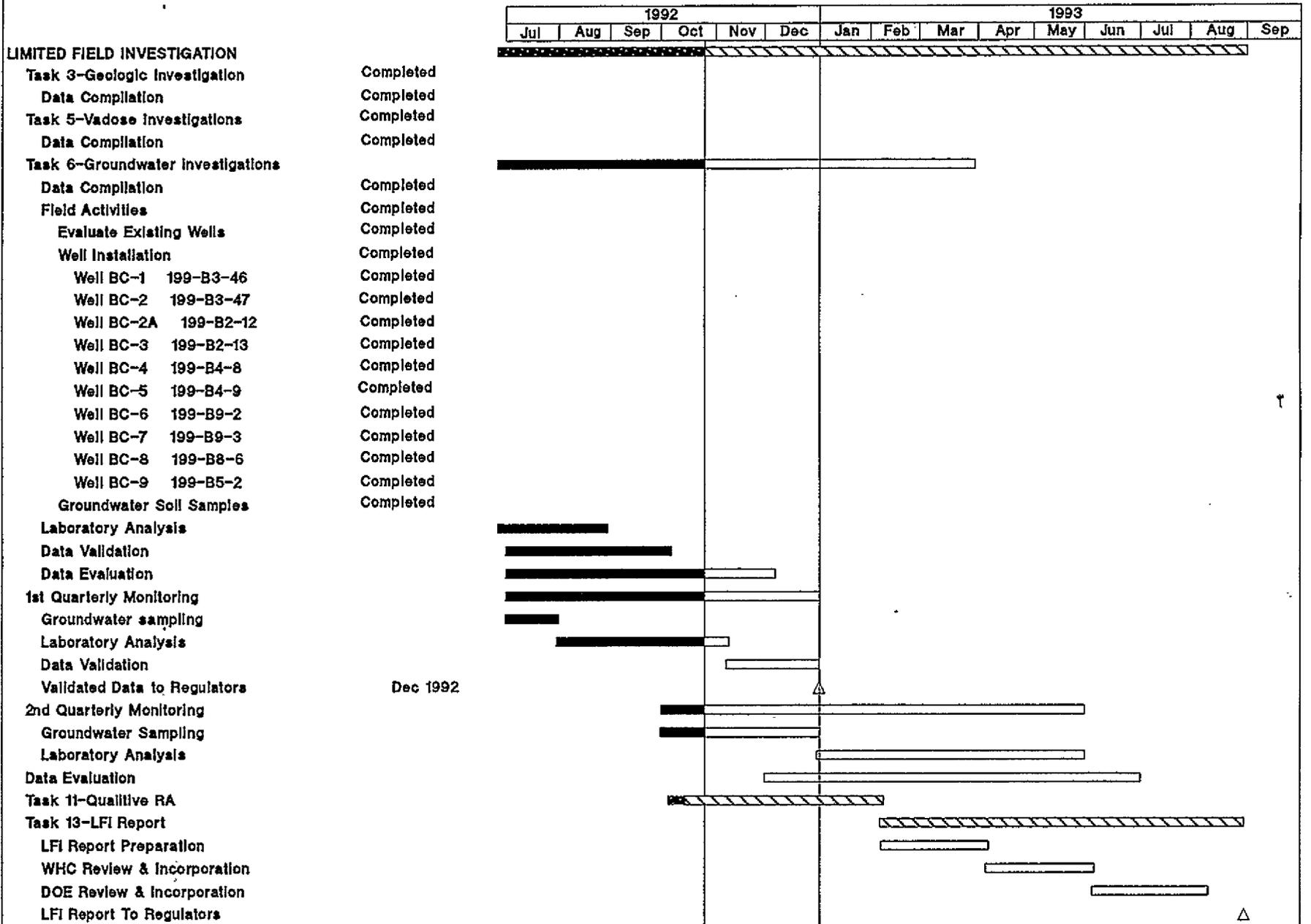
Project: 100-FR-1	DOE-RL 90-33, REV 0	Date: 16Oct92 11:29
100-FR-1 OPERABLE UNIT WORK PLAN		
Page: 1	Drawn by ER Program Control-Scheduling	

100-BC-5, 100-KR-4, 100-FR-3 OUs

93127591903

9 3 1 2 7 5 9 1 9 0 4

100-BC-5 OPERABLE UNIT



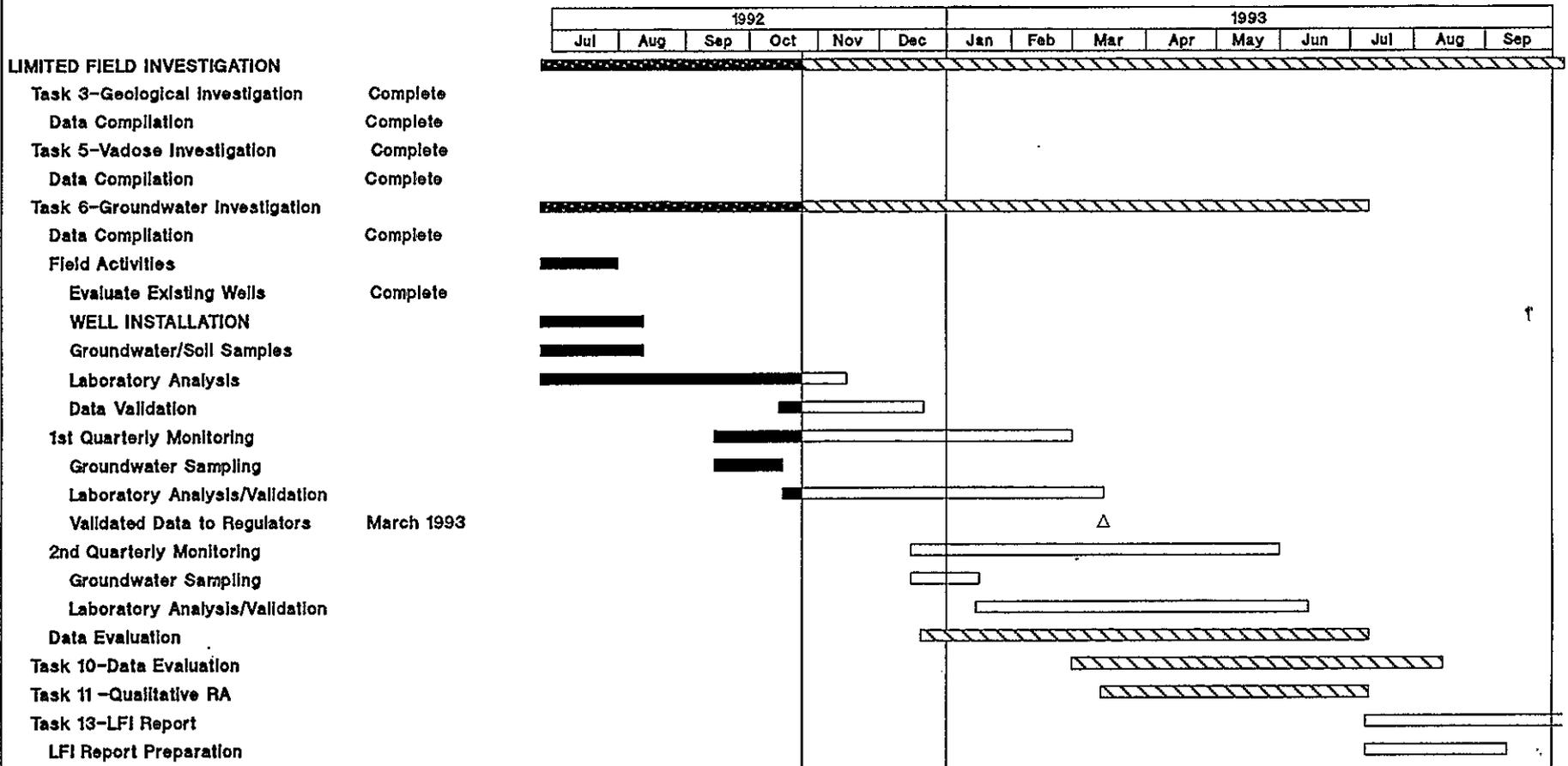
Data Date
22 Oct 92

Summary Task [Hatched] Progress [Solid Black] Detail Task [White] Milestone ▲

Project: 100-BC-5 DOE-RL 90-08, REV 0 Date: 15Oct92 10:08
 100-BC-5 Operable Unit Work Plan
 Page: 1 Drawn by ER Program Control-Scheduling

#10/Page 2 of 5

100-KR-4 OPERABLE UNIT

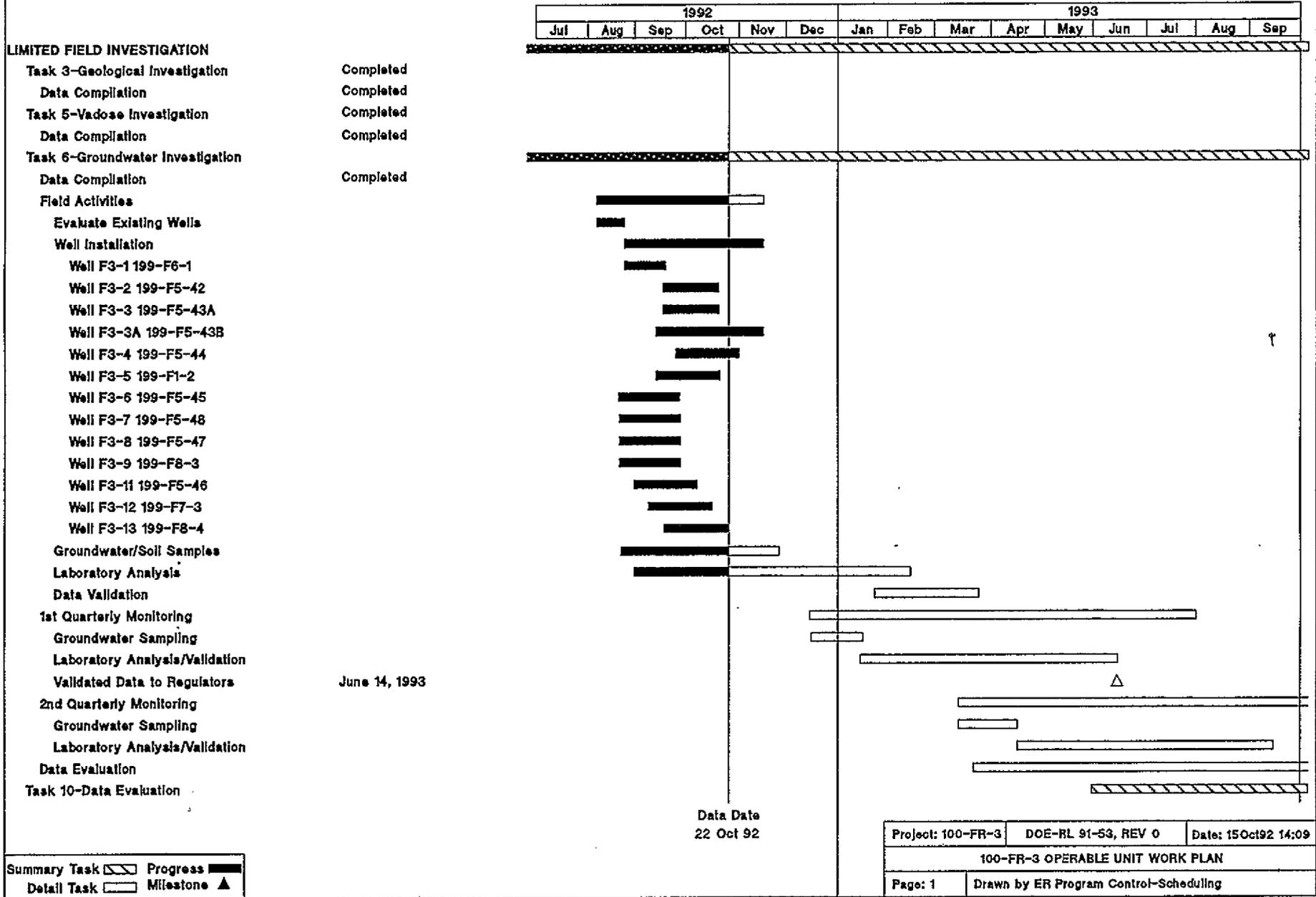


Data Date
22 Oct 92

Summary
 Progress

Project: 100-KR-4	DOE-RL 90-21, REV 0	Date: 15Oct92 15:47
100-KR-4 OPERABLE UNIT WORK PLAN		
Page: 1	Drawn by ER Program Control-Scheduling	

100-FR-3 OPERABLE UNIT



Data Date
22 Oct 92

Project: 100-FR-3	DOE-RL 91-53, REV 0	Date: 15Oct92 14:09
100-FR-3 OPERABLE UNIT WORK PLAN		
Page: 1	Drawn by ER Program Control-Scheduling	

Summary Task [Hatched] Progress [Solid Black] Milestone [Triangle]
Detail Task [White] Milestone [Triangle]

100-FR-3 DRILLING STATUS

WELL NUMBER	START DATE	COMPLETION DATE	CURRENT DEPTH	INST. READING	SCREEN INSTALLED
199-F1-2	9/3/92	9/9/92	TD 37.5 ft	N/A	9/18/92
199-F5-42	9/14/92	9/16/92	TD 35 ft	N/A	10/1/92
199-F5-43A	9/24/92	9/29/92	TD 40 ft	N/A	10/6/92
199-F5-43B	9/21/92		68 ft	N/A	
199-F5-44	9/30/92	10/2/92	TD 47.7 ft	N/A	10/6/92
199-F5-45	8/18/92	8/20/92	TD 52.6 ft	N/A	9/9/92
199-F5-46	9/4/92	9/9/92	TD 57 ft	N/A	9/22/92
199-F5-47	8/21/92	8/27/92	TD 63 ft	N/A	9/15/92
199-F5-48	8/19/92	8/21/92	TD 55 ft	N/A	9/11/92
199-F6-1	9/1/92	9/2/92	TD 53 ft	N/A	
199-F7-3	9/1/92	9/2/92	TD 33 ft	N/A	9/17/92
199-F8-3	8/25/92	8/27/92	TD 34 ft	N/A	9/15/92
199-F8-4	9/11/92	9/15/92	TD 47.5 ft	N/A	9/29/92

- ALL FY92 DRILLING ACTIVITIES COMPLETE (OCTOBER)

- 1ST QUARTER GROUNDWATER SAMPLING SCHEDULED FOR DECEMBER

93127591907

Control Number 35	100 NPL Agreement/Change Control Form X Change X Agreement Information Operable Unit(s) <u>100 Area: 100-BC-1,HR-1,DR-1</u>	Date Submitted 10/21/92 Date Approved																
Document Number & Title: Treatability Study Program Plan, (Decisional Draft), DOE/RL-92-48		Date Document Last Issued To RL 7/14/92.																
Originator J. G. Woolard		Phone 6-2539																
Summary Description See attached. Associated Documents: DOE-RL-90-07, Rev. 0, 100-BC-1 WP DOE-RL-89-09, Rev. 0, 100-DR-1 WP DOE-RL-88-35, Rev. 0, 100-HR-1 WP																		
Justification and Impact of Change See attached.																		
<table> <tr> <td>R. E. Day <i>RE Day</i></td> <td><u>Oct 21, 1992</u></td> </tr> <tr> <td>WHC Operable Unit Coordinator</td> <td>Date</td> </tr> <tr> <td>E. D. Goller <i>ED Goller</i></td> <td><u>10/21/92</u></td> </tr> <tr> <td>DOE Unit Manager</td> <td>Date</td> </tr> <tr> <td>Rich Hibbard <i>Rich Hibbard</i></td> <td><u>10/21/92</u></td> </tr> <tr> <td>Ecology Unit Manager</td> <td>Date</td> </tr> <tr> <td>Dennis Faulk <i>Dennis Faulk</i></td> <td><u>Oct 21, 1992</u></td> </tr> <tr> <td>Env. Protection Agency Unit Manager</td> <td>Date</td> </tr> </table>			R. E. Day <i>RE Day</i>	<u>Oct 21, 1992</u>	WHC Operable Unit Coordinator	Date	E. D. Goller <i>ED Goller</i>	<u>10/21/92</u>	DOE Unit Manager	Date	Rich Hibbard <i>Rich Hibbard</i>	<u>10/21/92</u>	Ecology Unit Manager	Date	Dennis Faulk <i>Dennis Faulk</i>	<u>Oct 21, 1992</u>	Env. Protection Agency Unit Manager	Date
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Env. Protection Agency Unit Manager	Date																	
Per Action Plan for Implementation of the Hanford Consent Order and Compliance Agreement Section 9.3																		

73127591908

Summary Description

The following documents the agreement reached during the 100 Area Treatability Program Working Group meeting held 9/25/92 and 10/2/92. The working group consisted of representatives from WHC and the Tri-Parties: Joan Woolard, Linda Bergmann, Roberta Day, Jim Patterson, Bob Henckel (WHC), Jerry Chiaramonte, John Olson, Mary Todd (IT), Eric Goller (RL), Dennis Faulk, Pam Innis, Larry Gadbois (EPA), and Jack Donnelly, and Rich Hibbard (Ecology).

- Soil washing lab/bench scale test (physical separation, chemical extraction/heap leaching) will count for the 100-BC-1 Work Plan treatability milestone. The milestone date will remain unchanged; issue report to regulators 1/94.
- Soil washing pilot scale test will count for the 100-DR-1 Work Plan treatability milestone, and the milestone will be extended to 8/94 (complete test activities). Completion of test activities does not include the receipt of validated data. The pilot scale test will be conducted at the site with the most favorable test conditions, which may or may not be within the 100-DR-1 OU. The test site will be agreed to by all parties before initiating the test.
- An excavation treatability study will count for the 100-HR-1 Work Plan treatability milestone. The milestone date will remain unchanged; complete test activities 11/93. The test will be conducted at the site with the most favorable site conditions, which may or may not be within the 100-HR-1 OU. The test site will be agreed to by all parties before initiating the test. The purpose of the test is to evaluate dust control methods and field screening systems to assist in the development of the observation approach. In addition, a site will be cleaned up as a result of this test.
- If soil washing lab/bench scale tests prove that soil washing is not a viable option and pilot scale soil washing test is not conducted, then vitrification of burial ground materials (mock or actual TBD) will count for the 100-DR-1 milestones. The purpose of this test is to evaluate vitrification as a method to stabilize compactable burial ground materials that have been excavated and re-disposed in a central landfill (minimize potential subsidence over time). The milestone date will remain unchanged; complete test activities by 8/94.

Justification and Impact of Change

The following agreement will allow for a logical progression of testing activities from lab/bench scale to pilot, building on information gained from the latter. The information from the laboratory/bench scale testing will be required to develop the specifications for the full scale system.

The excavation study would allow cleanup of a waste site and would test applications of dust control and field monitoring equipment which would be utilized during full scale cleanup operations.

Impact

Two change requests will be required to document these changes. One change request will be required to add the current 100-DR-1 milestone and dates to the TPA. A second change request will be required to extend the 100-DR-1 milestone.

93127591909

Distribution
Unit Manager's Meeting: 100 Aggregate Area/100 Area Operable Units
October 21, 1992

- Julie K. Erickson Chief, Env. Remed. Br., DOE-RL, ERD (A5-19)
- Mike Thompson DOE-RL, EAP/RPB (A5-19)
- Diane Clark DOE-RL, TSD/SSB (A5-55)
- Steve Balone DOE-HQ (EM-442)
- Suzanne Clarke, SWEC GSSC to DOE-RL (A4-35)

- Dennis Faulk 100 Aggregate Area Manager, EPA (B5-01)
- Ward Staubitz, USGS Support to EPA
- Audree DeAngeles, PRC Support to EPA

- Darci Teel 100 Aggregate Area Manager, WDOE (Kennewick)
- Larry Goldstein WDOE (Lacey)

- Lynn Albin Washington Dept. of Health

- Tom Wintczak, WHC (L4-92)
- Mel Adams, WHC (H4-55)
- Bob Henckel, WHC (H4-55)
- L.D. Arnold, WHC (B2-35)
- A.D. Krug, WHC (H4-55)
- Roberta Day, WHC (H4-55)
- Powers, Linda L., WHC DOE-HQ
- Diana Sickle, WHC (L4-92)

- Chris Abraham GAO (A1-80)

ADMINISTRATIVE RECORD: 100 AAMS; Care of EDMC, WHC (H4-22)

Please inform Suzanne Clarke (SWEC) of deletions or additions to the distribution list.

93127591910