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 for. Date 11/18/92.
Dave Teel, 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

DEC 1992
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EDMC

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

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

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.)

9 3 1 2 7 5 9 1 8 6 2

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	Suzanne Clarke	SWEC	GSSC to RL	372-0630
Eric Goller	Eric Goller	RL	100 Area UM	376-7326
RE Day	RE Day	WHC	100 Areas	376-7602
Paul Beaver	Paul Beaver	EPA	Unit Mgr	6-8665
Diana Sickle	Diana Sickle	WHC	ER Program	2-3141
Brian Drost	Brian Drost	USGS	EPA Support	206-593-6510
Audree DeAngeles	Audree DeAngeles	PRC	EPA Support	206-624-2692
Joseph Mollusky	Joseph Mollusky	PRC	EPA Support	206-624-2692
Kevin Oates	Kevin Oates	US ACE	DOE Support	522-6834
Jim Patterson	Jim Patterson	WHC	ER Program Office	376-0568
Pamela Innis	Pamela Innis	EPA	Unit Manager	376-4919
Robert Henckel	Robert Henckel	WHC	100 Areas	376-2091
Steve Weiss	Steve Weiss	WHC	100 Aggregate Area	376-1683
Karl N. Pool	Karl N. Pool	WHC	OSM Support	373-3137
J.M. Ayres	J.M. Ayres	WHC	100-FR-1 100-HR-1,2	376-3918
Steve Gross		Ecology	CERCLA	459 6675
Larry Gadbois	Larry Gadbois	EPA	Unit Manager	376-9884
Alan D. Krug	Alan D. Krug	WHC	100 Area Ecol. T.L.	376-5834
Jon Sprecher	Jon Sprecher	Bloom & Caldwell	Ecology Support	(505) 244-7005
Bill Kane	William F. Kane	Parametrix	Ecology Support	206 822-8880
Jeff Phillips	Jeff Phillips	Ecology	Unit Manager	(509) 546-2460
Richard Hibbard		Ecology	EA Unit	(206) 493-9327
Charles Cline	Charles Cline	"	NRC/NR3 U. Mgr.	(206) 438-7556
Kyle Turner	Kyle Turner	D&M	GSSC	946-4933
N.M. Naiknimbalkar	N.M. Naiknimbalkar	WHC	100-DR-1/DR2 100-KR-1	376-8739

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
Linda Bergmann	[illegible]	WHC	100 Area	6-4869
KAY KIMMEL	Kay Kimmel	SWEC	GSSC	509-372-0610

9312791865

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).

9 3 1 2 7 5 9 1 8 6 8

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 (9231/92). 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.

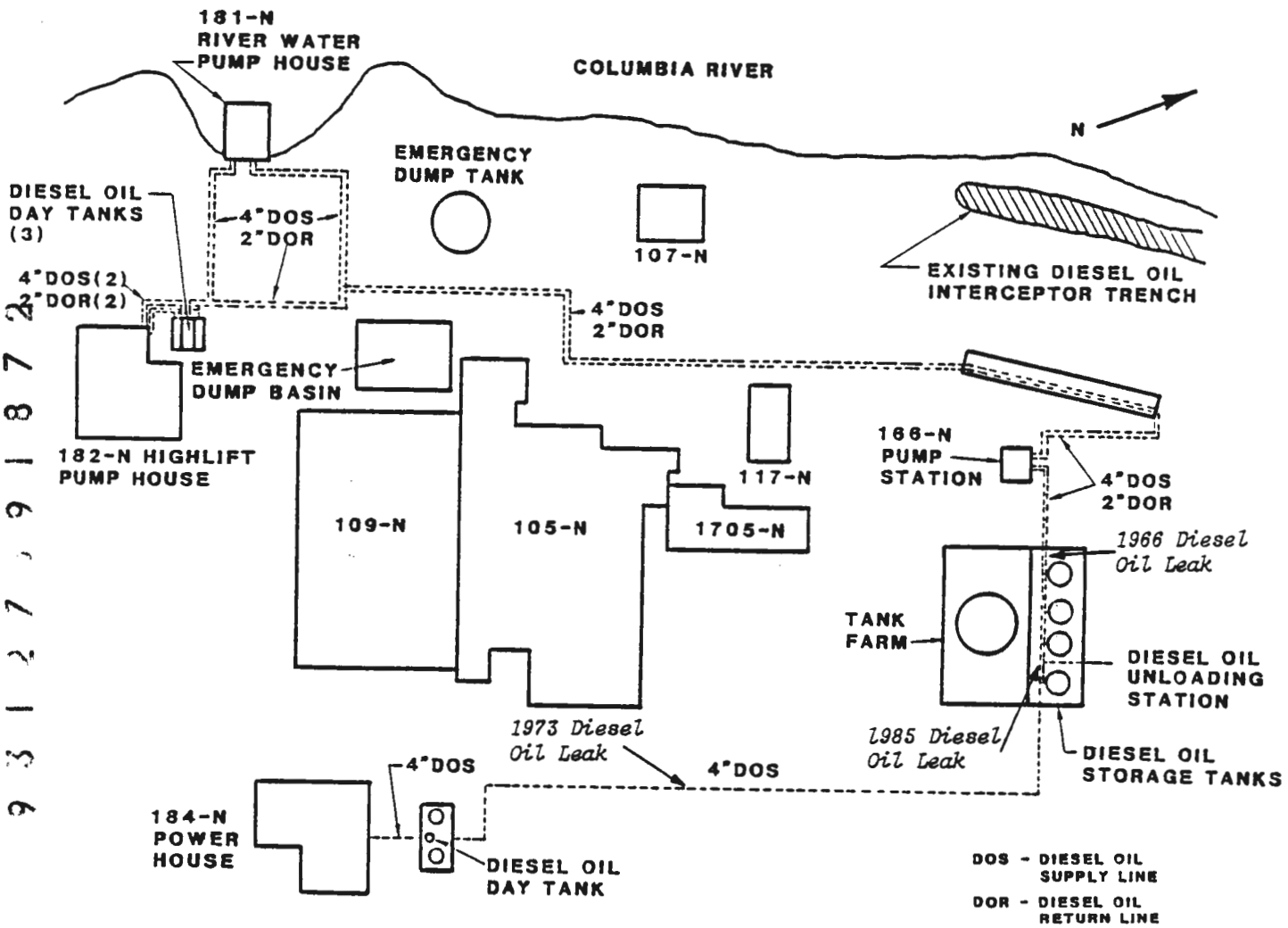
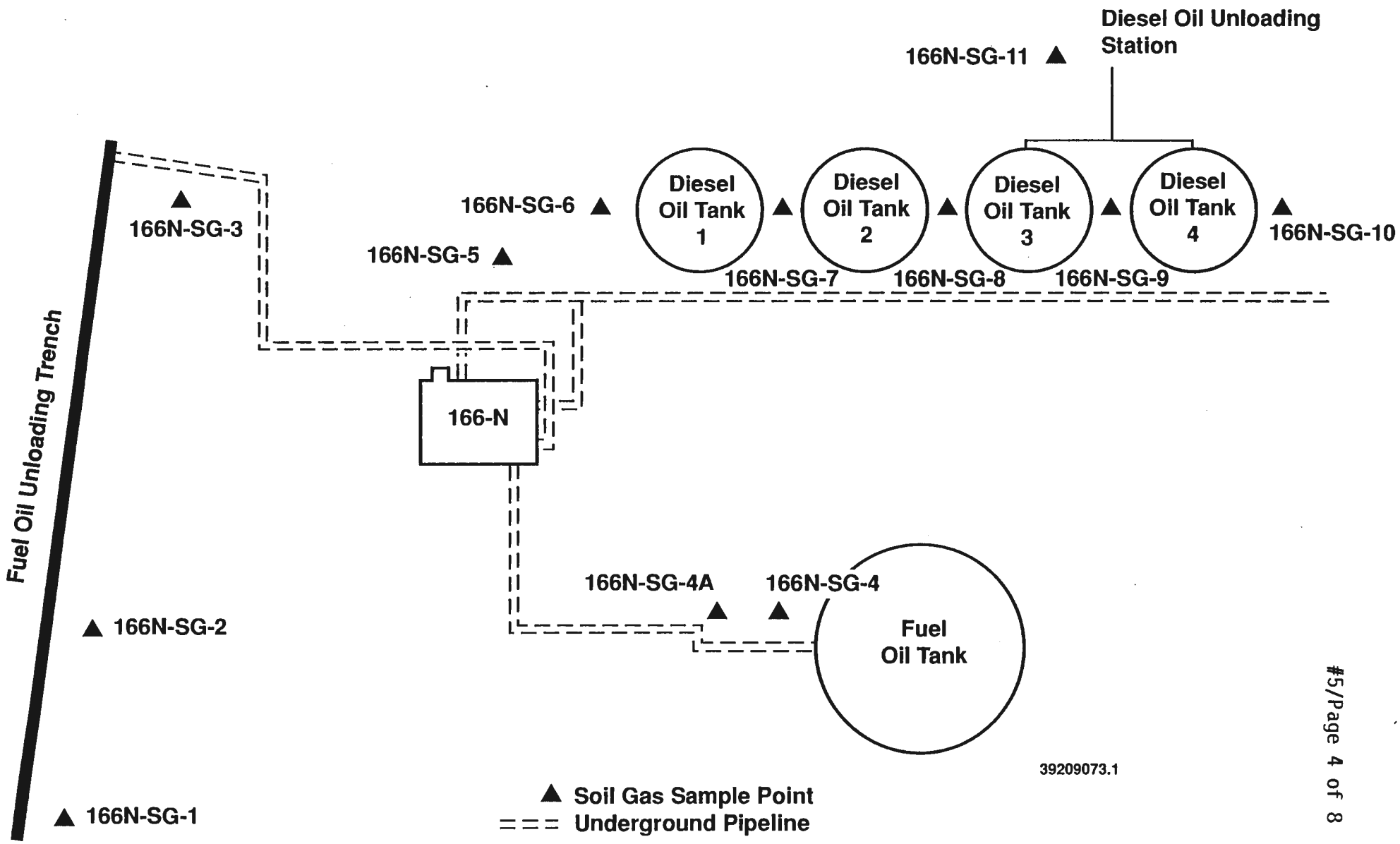


Figure 2.2 Diesel Oil Storage Tanks, Day Tanks, and Transfer Piping at 100-N Area


Diesel Oil Unloading Station
166N-SG-11
Diesel Oil Tank 1
Diesel Oil Tank 2
Diesel Oil Tank 3
Diesel Oil Tank 4
166N-SG-6
166N-SG-5
166N-SG-3
166N-SG-7
166N-SG-8
166N-SG-9
166N-SG-10
Fuel Oil Unloading Trench
166-N
166N-SG-4A
166N-SG-4
Fuel Oil Tank
166N-SG-2
166N-SG-1
39209073.1
Soil Gas Sample Point
Underground Pipeline

100-NR-1 Soil Gas Survey

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

III. Soil Gas Survey

- Identify areas where petroleum products may have been released to the subsurface soils.

- Dedicated soil gas probes installed on August 21 and 24, 1992.

- 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

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

  Soil vapors appear to contain methane gas

  Soil vapors are O_2 deficient and CO_2 rich

- 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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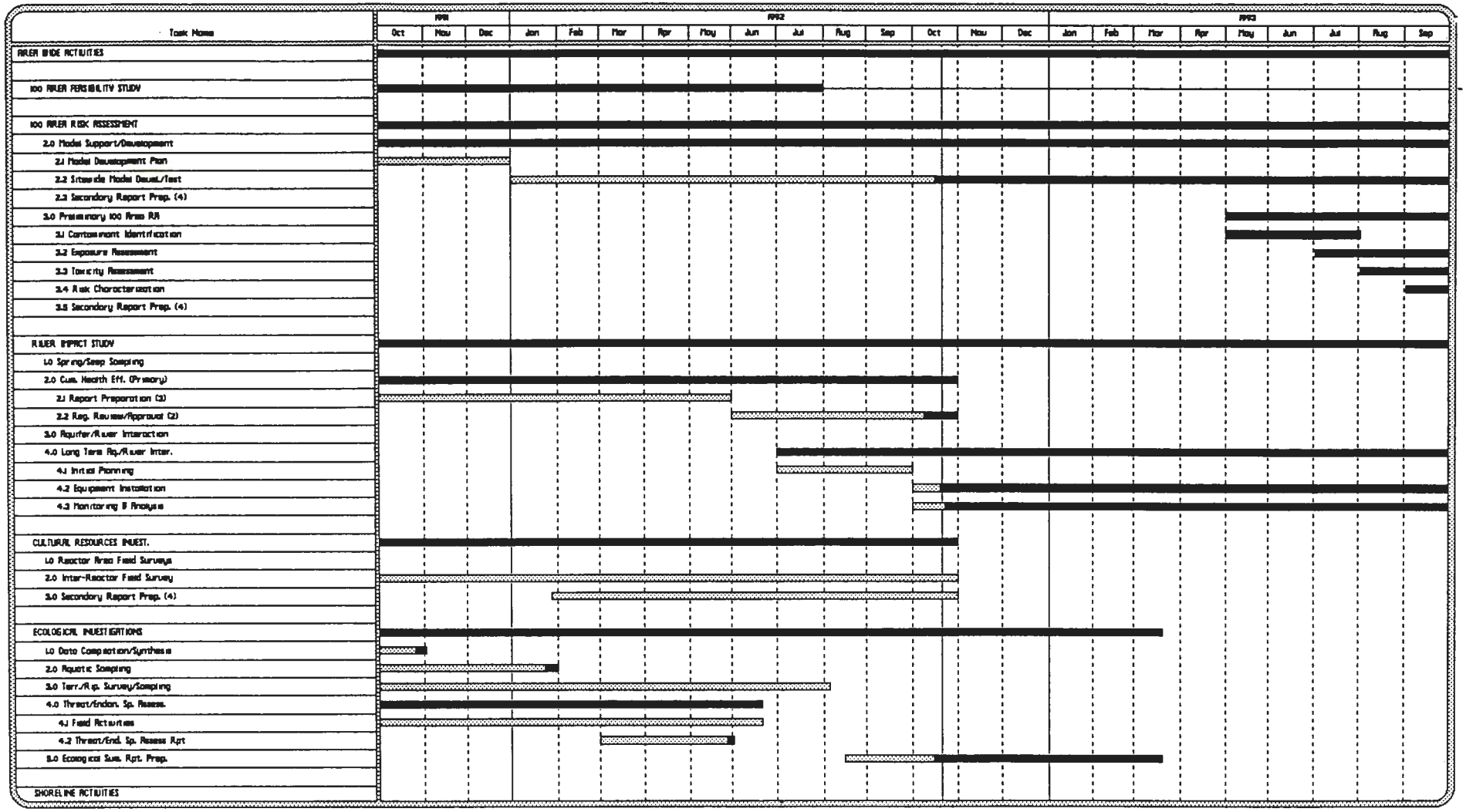
100 AREA WIDE ACTIVITIES



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-90

BELOW 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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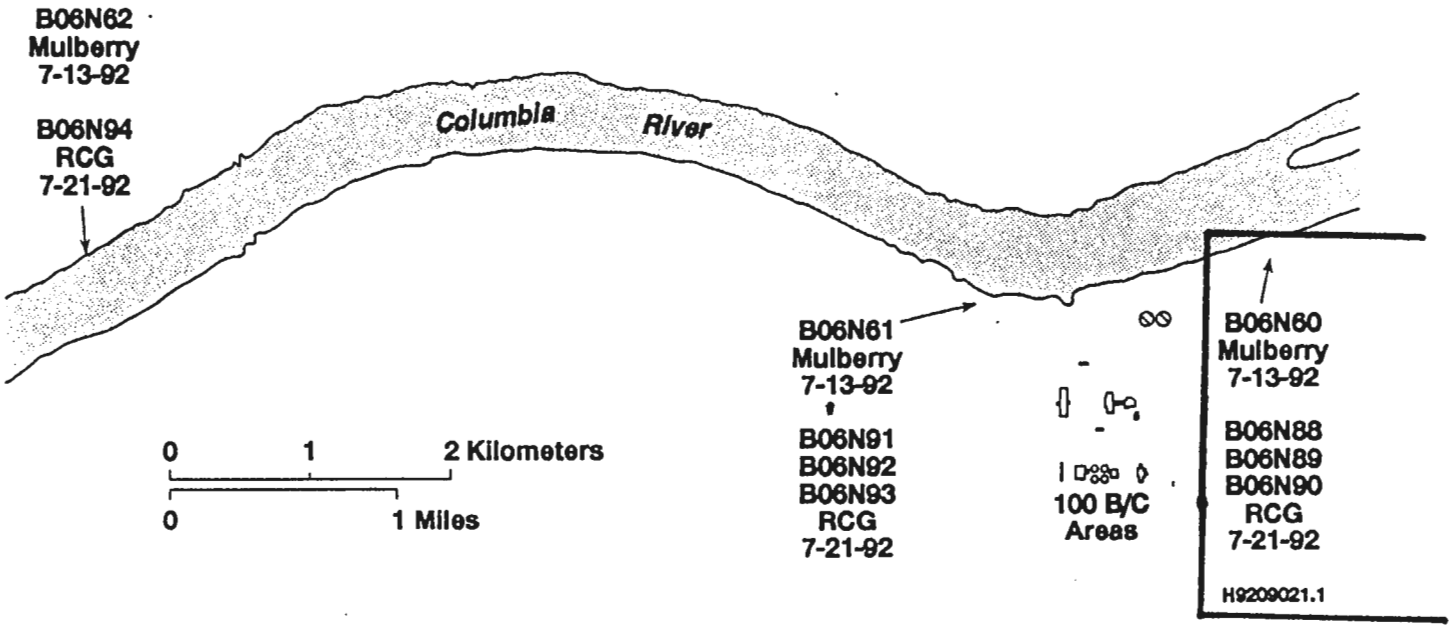
B06N62
Mulberry
7-13-92
B06N94
RCG
7-21-92
Columbia
River
B06N61
Mulberry
7-13-92
B06N91
B06N92
B06N93
RCG
7-21-92
B06N60
Mulberry
7-13-92
B06N88
B06N89
B06N90
RCG
7-21-92
0
1
2 Kilometers
0
1 Miles
100 B/C
Areas
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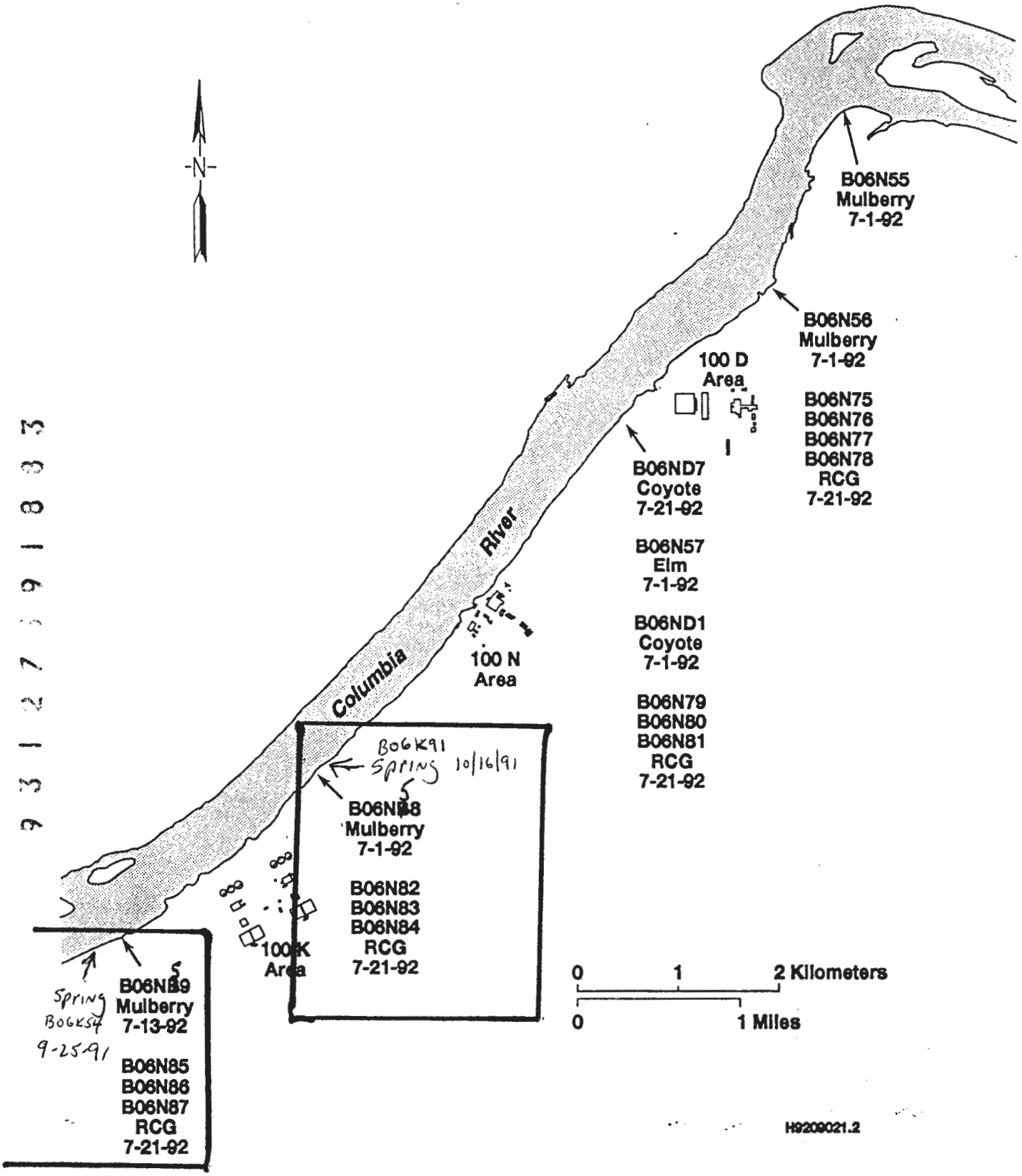
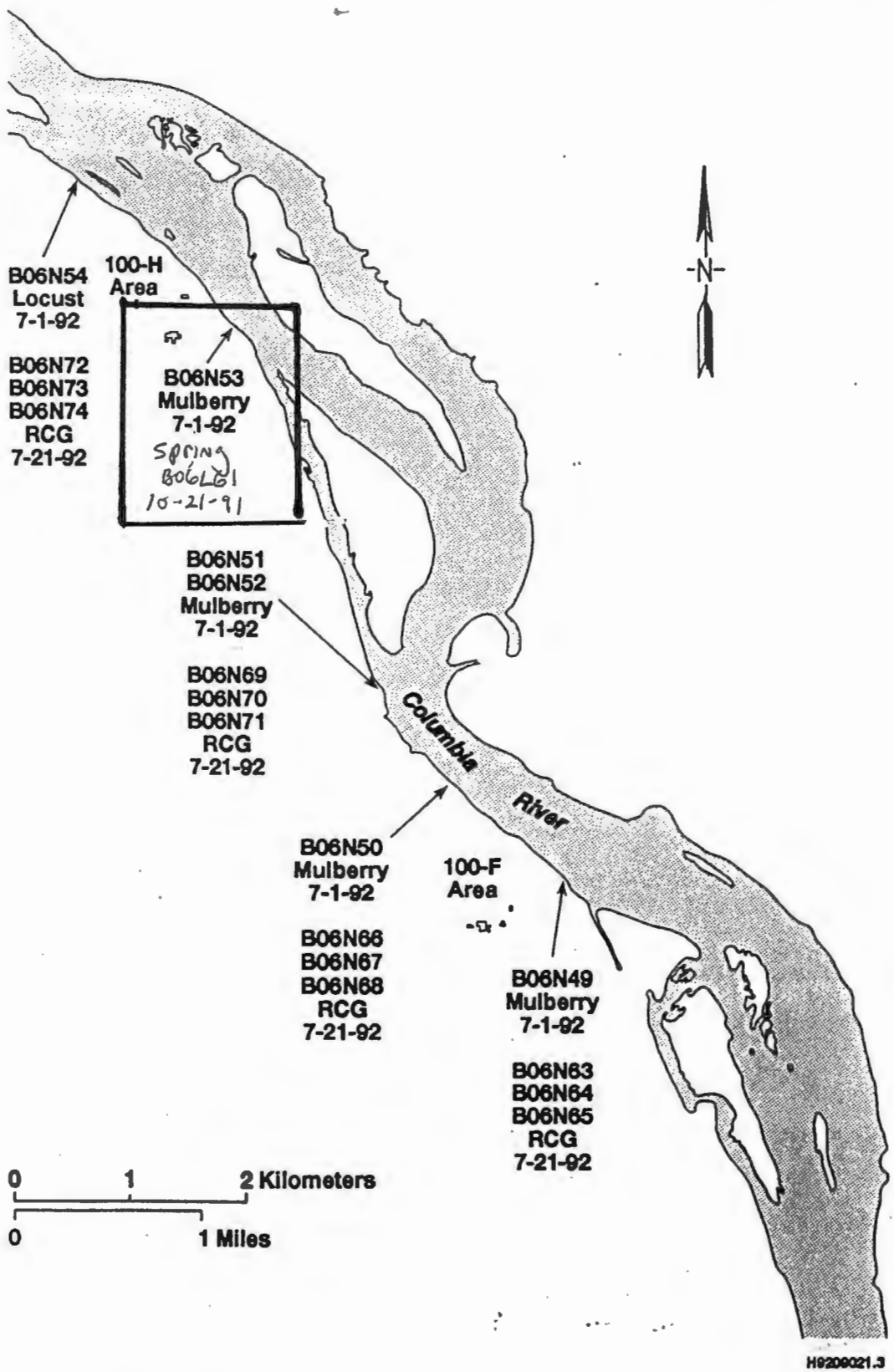

N
B06N55
Mulberry
7-1-92
B06N56
Mulberry
7-1-92
100 D
Area
B06N75
B06N76
B06N77
B06N78
RCG
7-21-92
B06ND7
Coyote
7-21-92
B06N57
Elm
7-1-92
B06ND1
Coyote
7-1-92
B06N79
B06N80
B06N81
RCG
7-21-92
Columbia
River
100 N
Area
B06K91
Spring 10/16/91
B06N88
Mulberry
7-1-92
B06N82
B06N83
B06N84
RCG
7-21-92
100 K
Area
Spring
B06K54
9-25-91
B06N89
Mulberry
7-13-92
B06N85
B06N86
B06N87
RCG
7-21-92
0
1
2 Kilometers
0
1 Miles
H9209021.2



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

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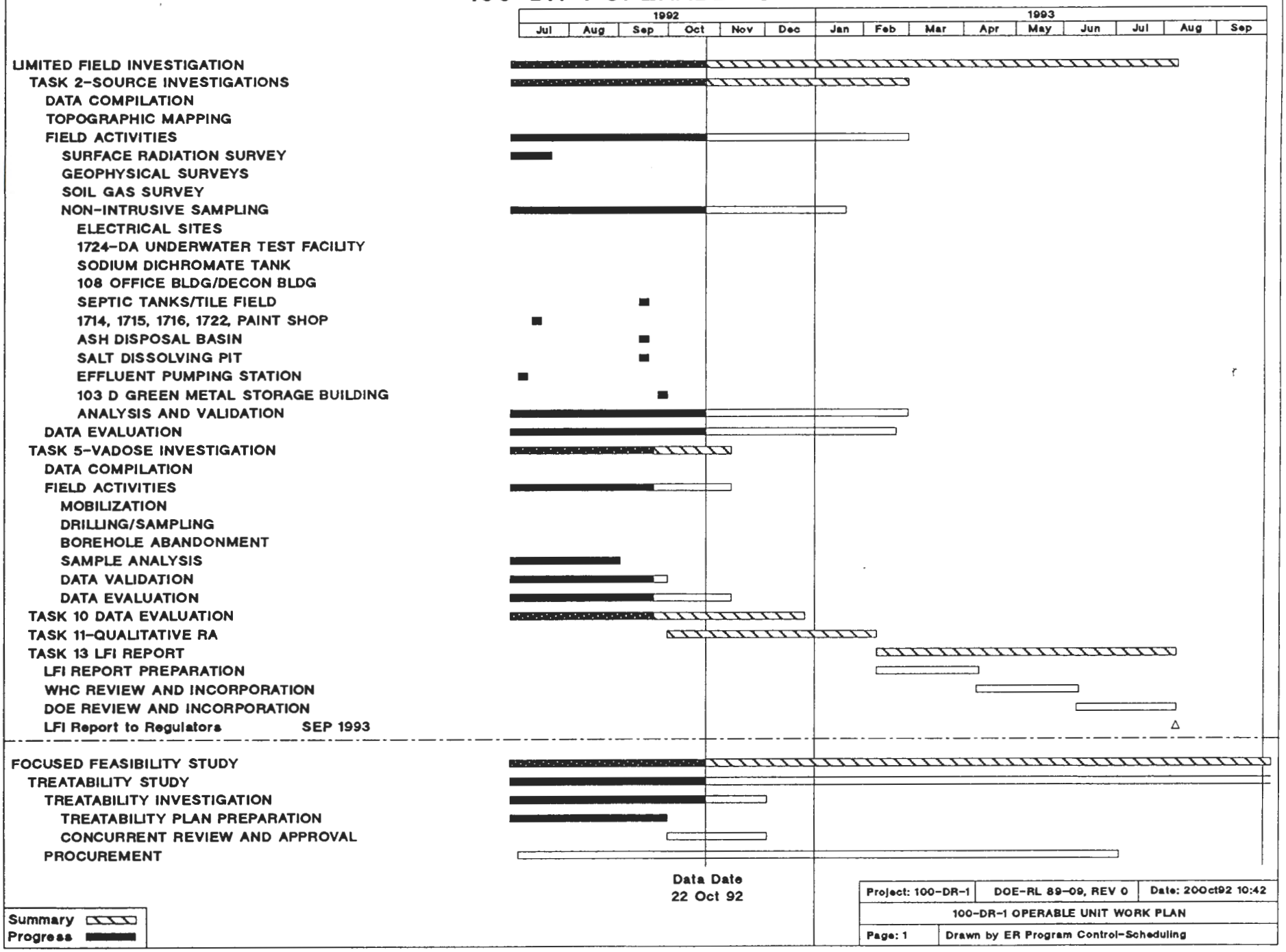
9 3 1 2 7 9 1 8 3 6

100-DR-1 OPERABLE UNIT



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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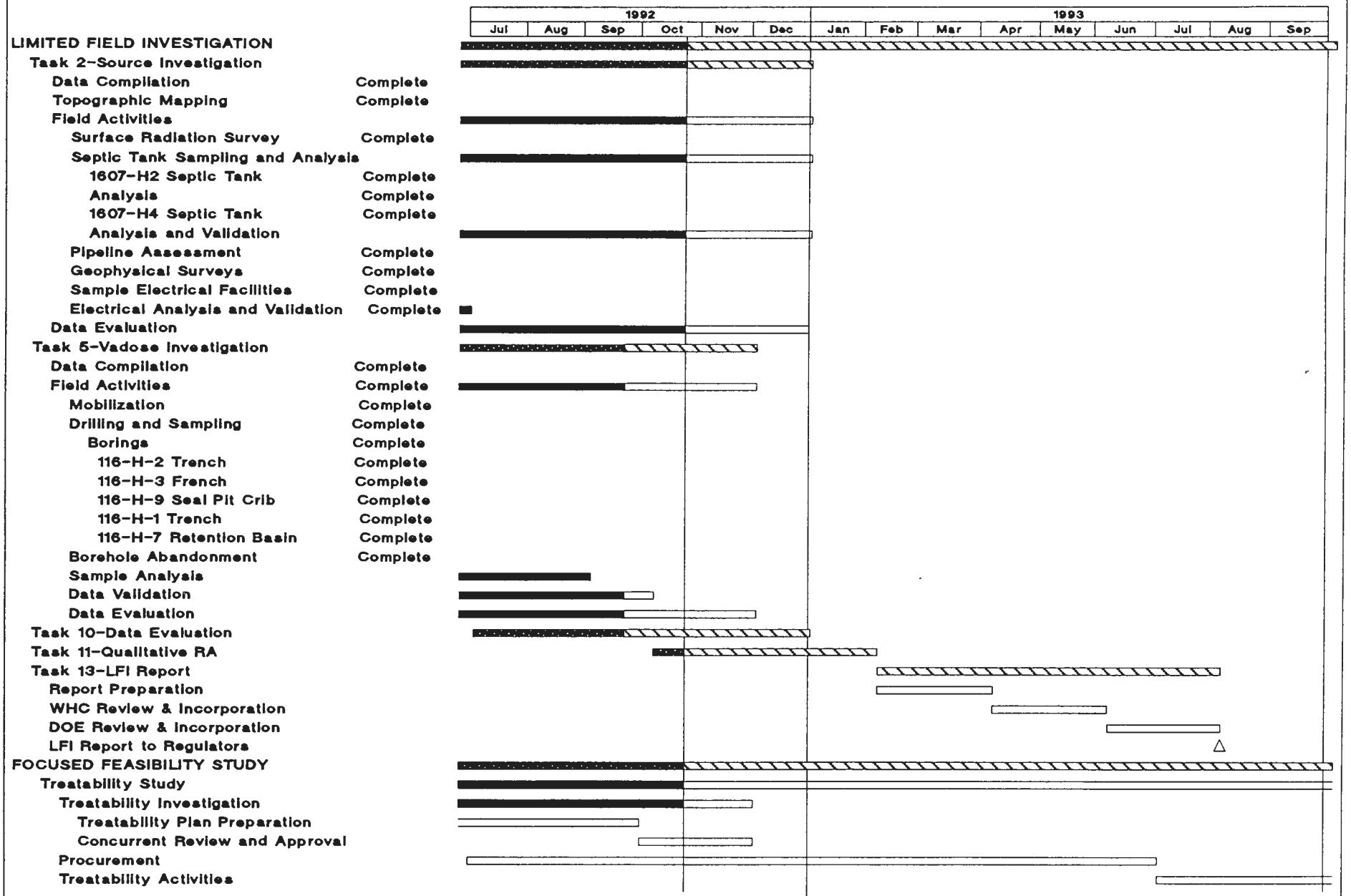
9 3 1 2 7 5 9 1 8 3 8

100-HR-1 OPERABLE UNIT



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	

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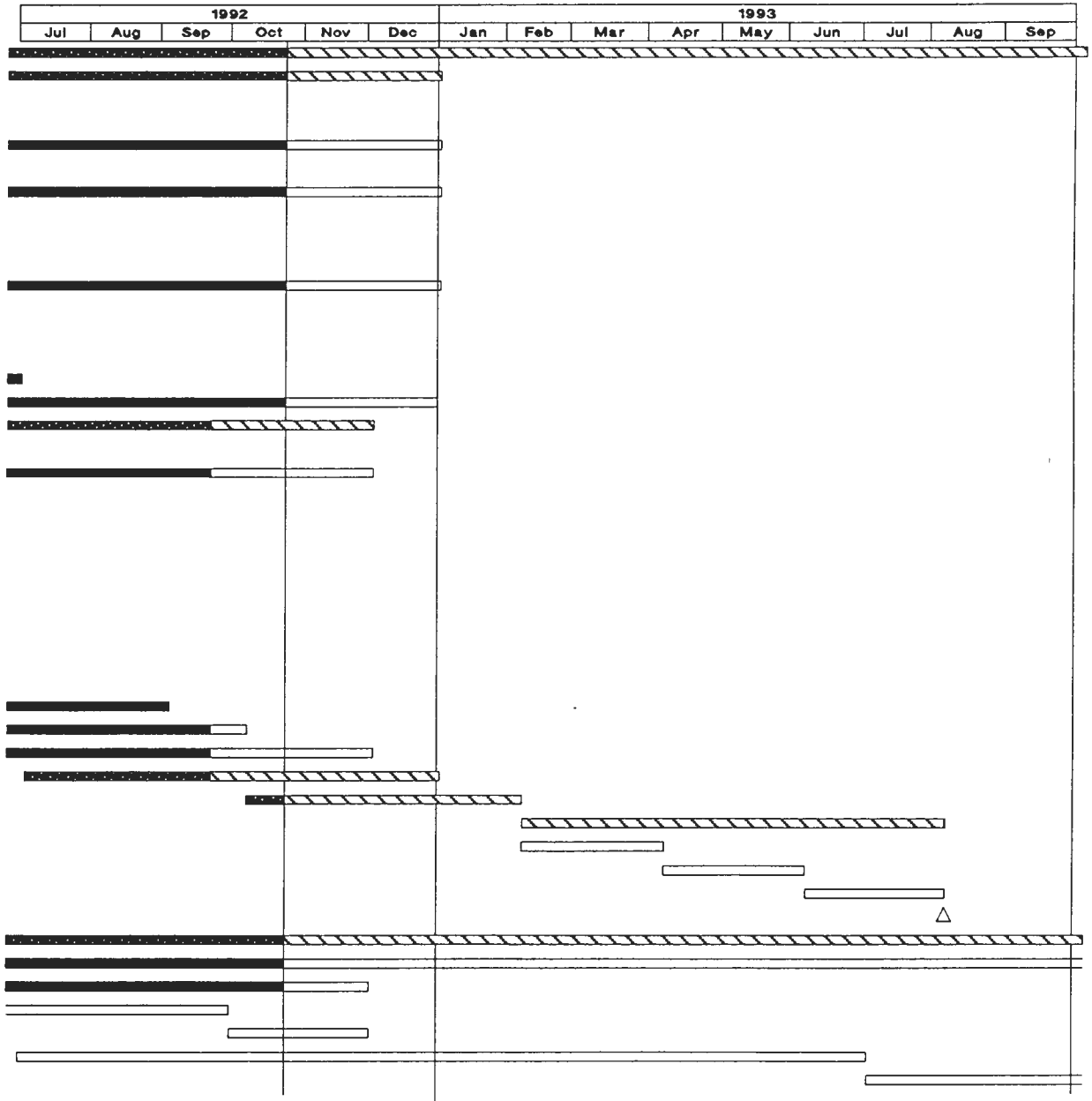
100-HR-1 OPERABLE UNIT



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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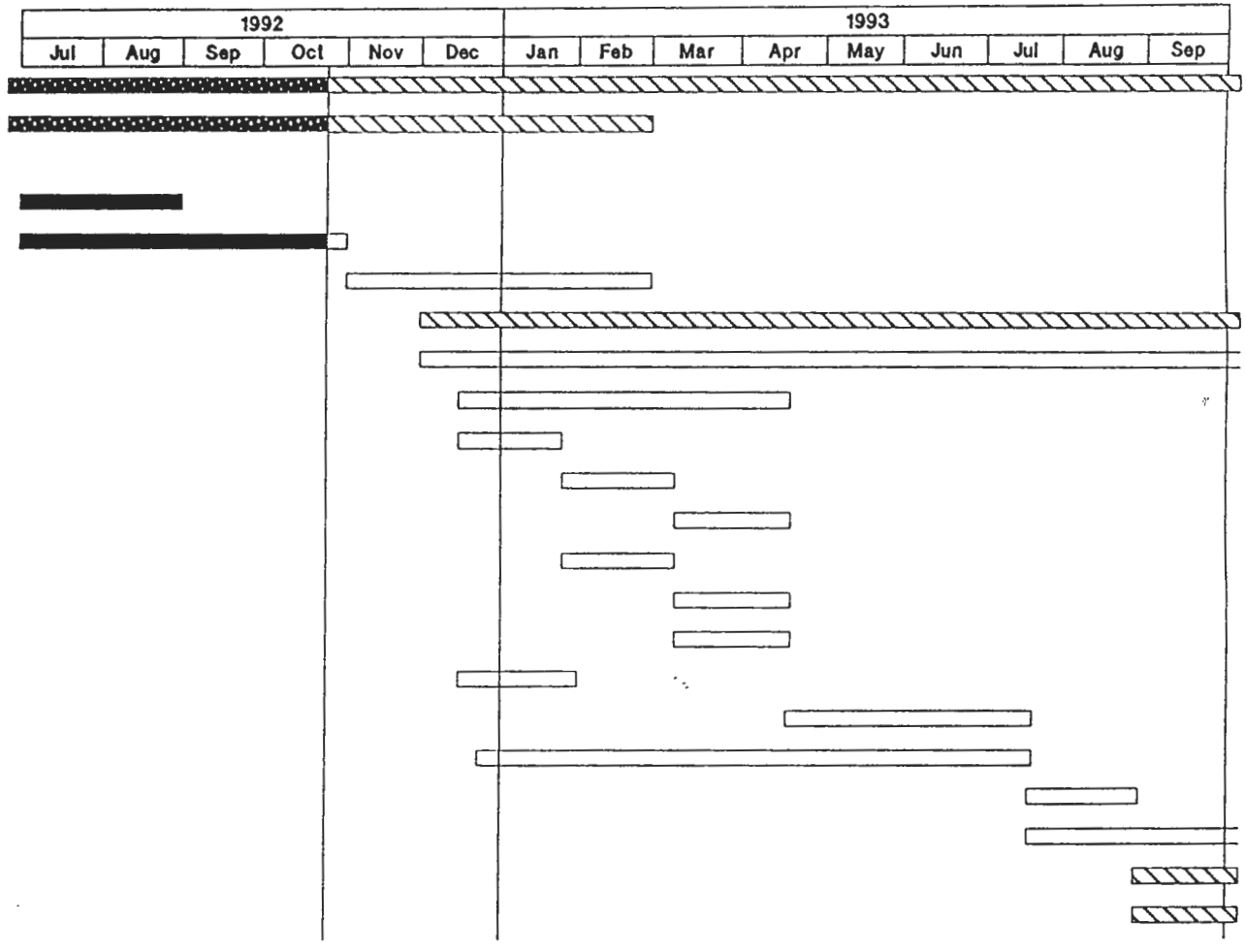
100-NR-1 OPERABLE UNIT



Project: 100-NR-1	DOE-RL	Date: 19Oct92 9:58
100-NR-1 OPERABLE UNIT WORK PLAN		
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Summary
Progress

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

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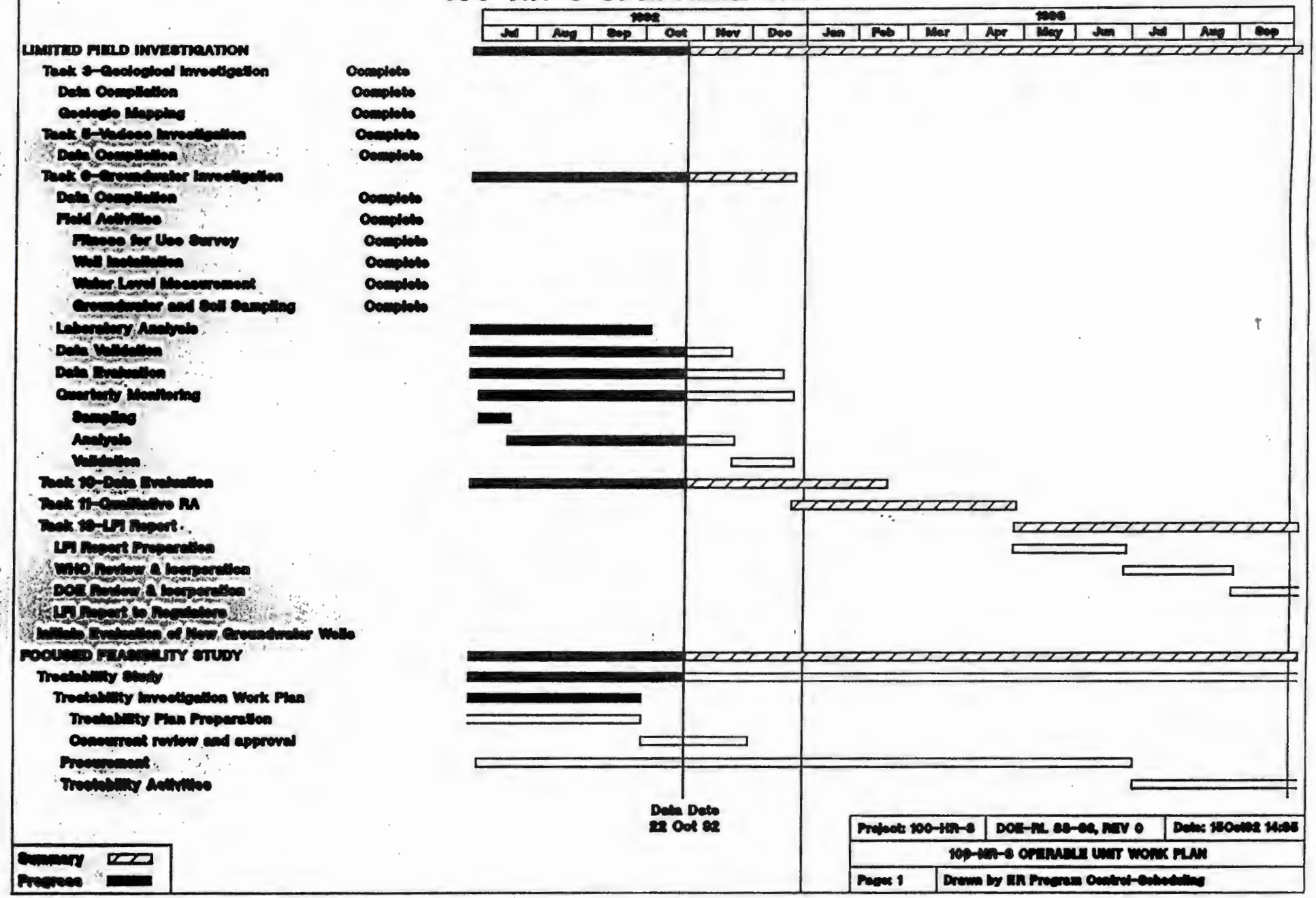
9 3 1 2 7 5 9 1 8 9 3

100-HR-3 OPERABLE UNIT



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.

9 3 1 2 7 3 9 1 3 9 4

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.

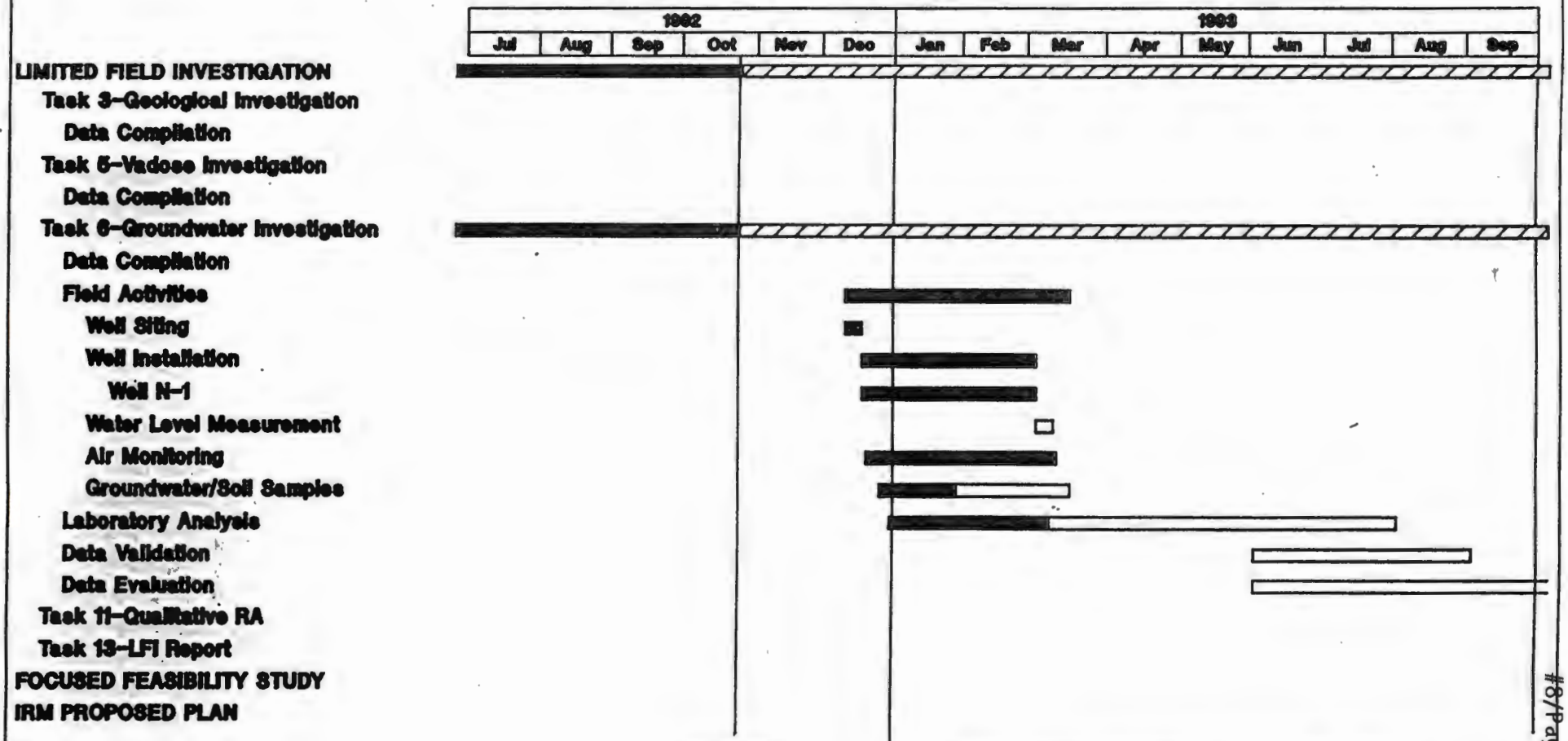
Groundwater Samples

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.

9 3 1 2 7 3 9 1 8 9 5

100-NR-2 OPERABLE UNIT



Project: 100-NR-2	DOE-RL	Date: 19Oct92 8:12
100-NR-2 OPERABLE UNIT WORK PLAN		
Page: 1	Drawn by ER Program Control-Scheduling	

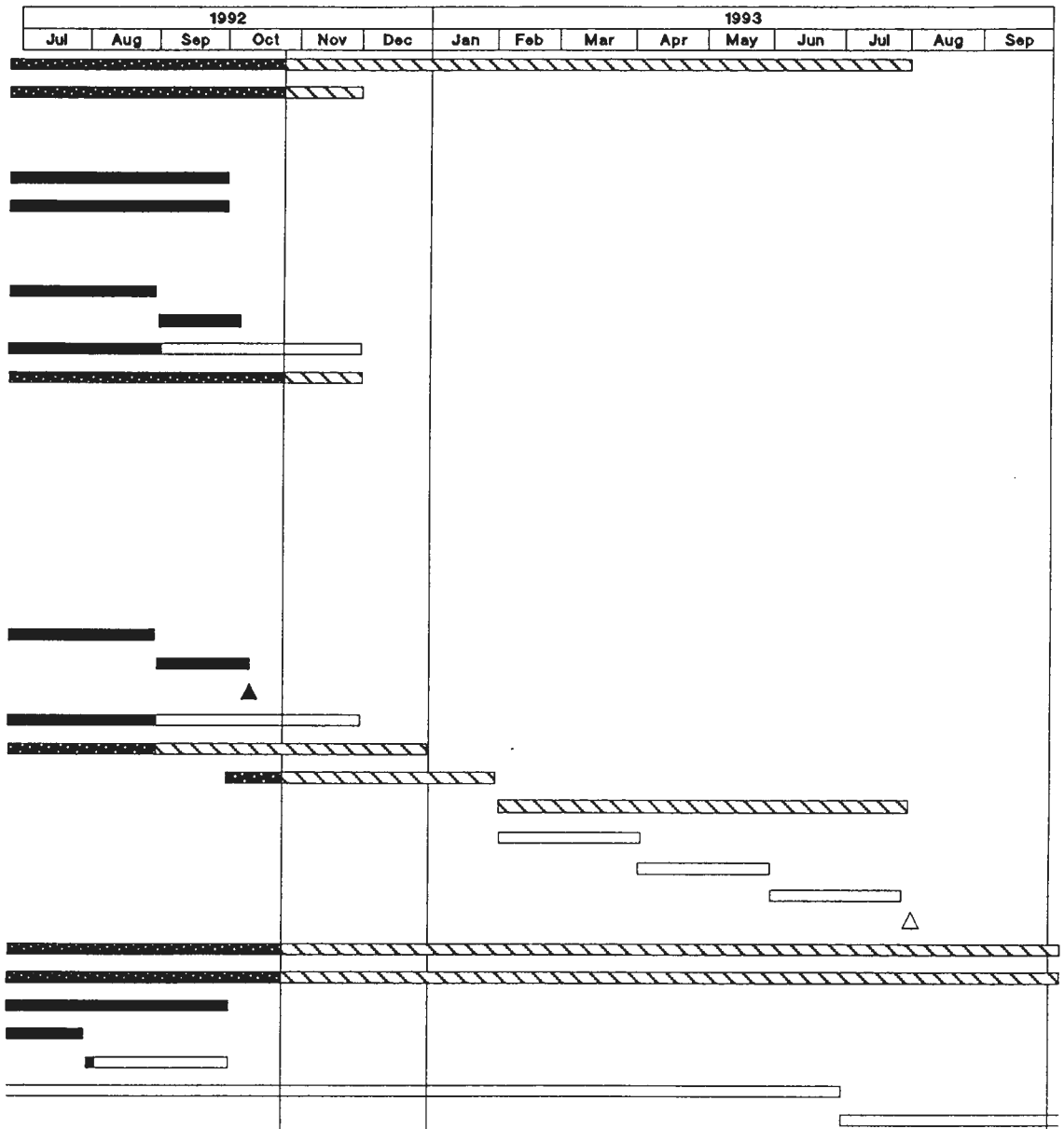
100-BC-1, 100-KR-1, 100-FR-1 OUs

9 3 1 2 7 0 9 1 3 9 7

9 3 1 2 7 5 9 1 8 9 8

100-BC-1 OPERABLE UNIT

LIMITED FIELD INVESTIGATION	
Task 2-Source Investigation	
Data Compilation	
Topographic Mapping	Completed
Field Activities	
Sampling and Analysis	
Electrical Facilities	Completed
116-C-5 Retention Basin	Completed
Analysis	
Data Validation	
Data Evaluation	
Task 5-Vadose Investigation	
Field Activities	Completed
Mobilization	Completed
Drilling and Sampling	Completed
116-B-1 Trench	Completed
116-B-5 Crib	Completed
116-B-3 Pluto Crib	Completed
116-B-2 Fuel Storage Trench	Completed
Borehole Abandonment	Completed
Sample Analysis	
Data Validation	
Validated Data to Regulators	October 9, 1992
Data Evaluation	
Task 10-Data Evaluation	
Task 11-Qualitative RA	
Task 13-LFI Report	
LFI Report Preparation	
WHC Review and Incorporation	
DOE Review and Incorporation	
LFI Report to EPA	July 1993
FOCUSED FEASIBILITY STUDY	
Treatibility Study	
Treatibility Study Plan Preparation	
Test Plan Preparation	
Concurrent Review and Agreement	DOE/REGULATORS
Procurement	
Treatibility Activities	



Summary Task ▨ Progress ■
Detail Task ▭ Milestone ▲

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	

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

Task 2 - Source Investigation:

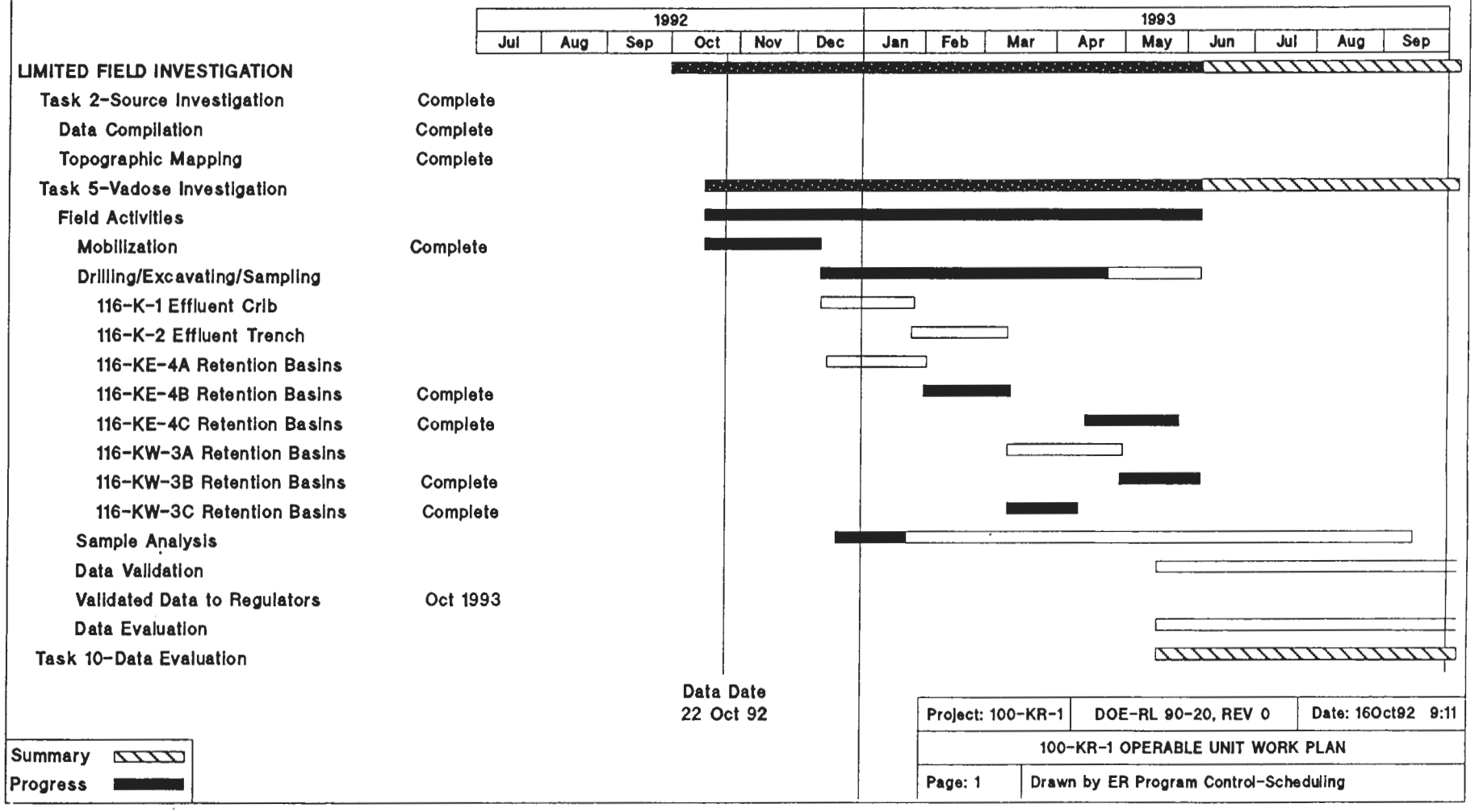
Field activities are complete. Sample analysis is complete. Data validation is complete. Interim milestone M-15-08A has been met.

Task 5 - Vadose Investigation:

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

9 5 1 2 7 9 1 3 9 9

100-KR-1 OPERABLE UNIT



Excavating and Sampling was completed
in September 1992

FY 1993 Activities for 100-KR-1 Operable Unit
N.M. Naiknimbalkar

o	Four Vadose Boreholes	October/November 1992
	116-K-1 Effluent Crib	
	116-K-2 ffluent Trench	
	116-KE-4A Retention Basin	
	116-KW-3A Retention Basin	
o	Four Test Pits	
	116-KE-4B	Completed
	116-KE-4C	Completed
	116-KW-3B	Completed
	116-KW-3C	Completed
o	Sample Analysis	October 92-March 93
o	Data Validation	April 93-September 93
o	Validated Data to Regulators	October 93
o	Data Evaluation	May 93-December 93

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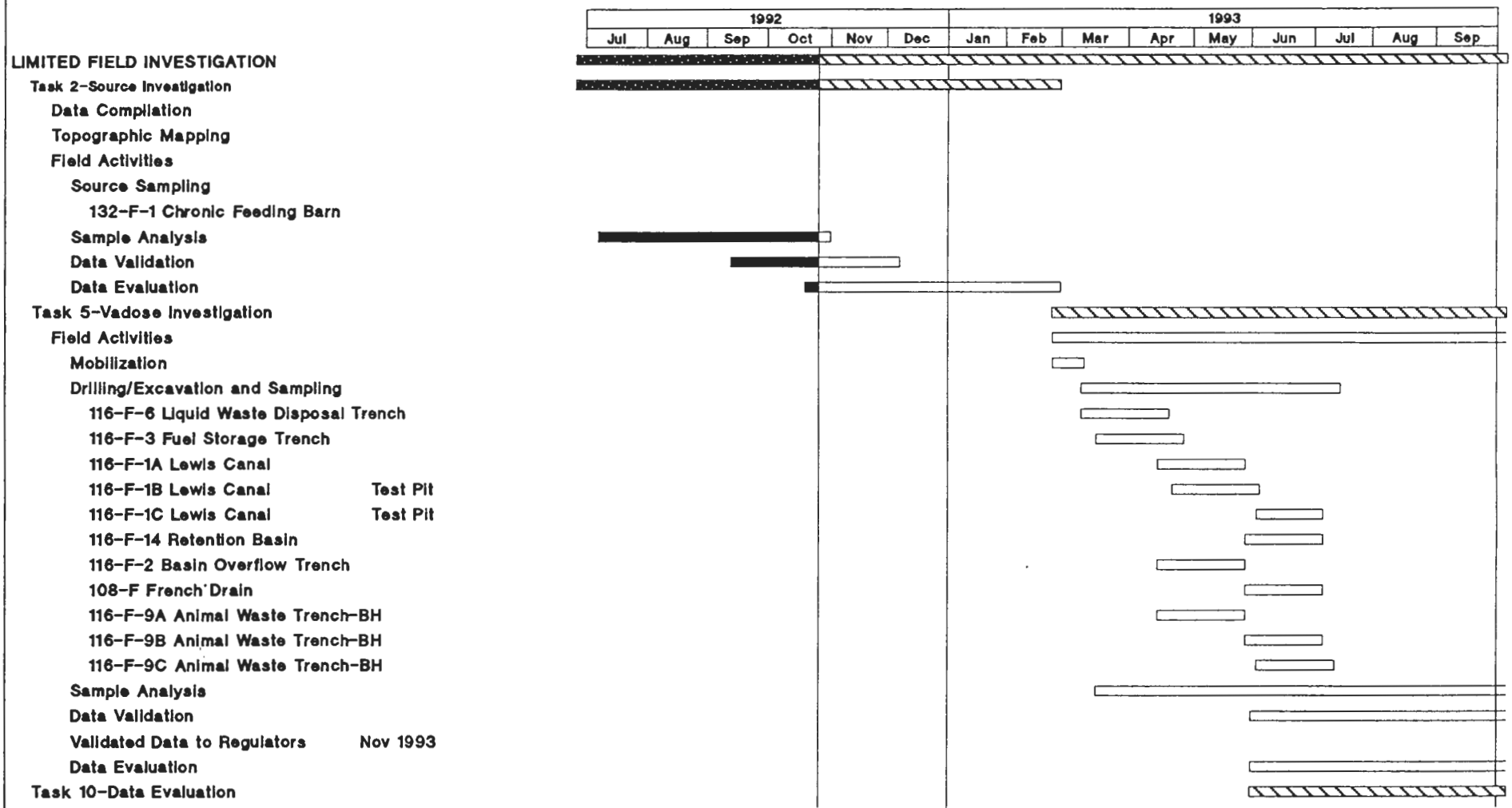
100-FR-1 OPERABLE UNIT



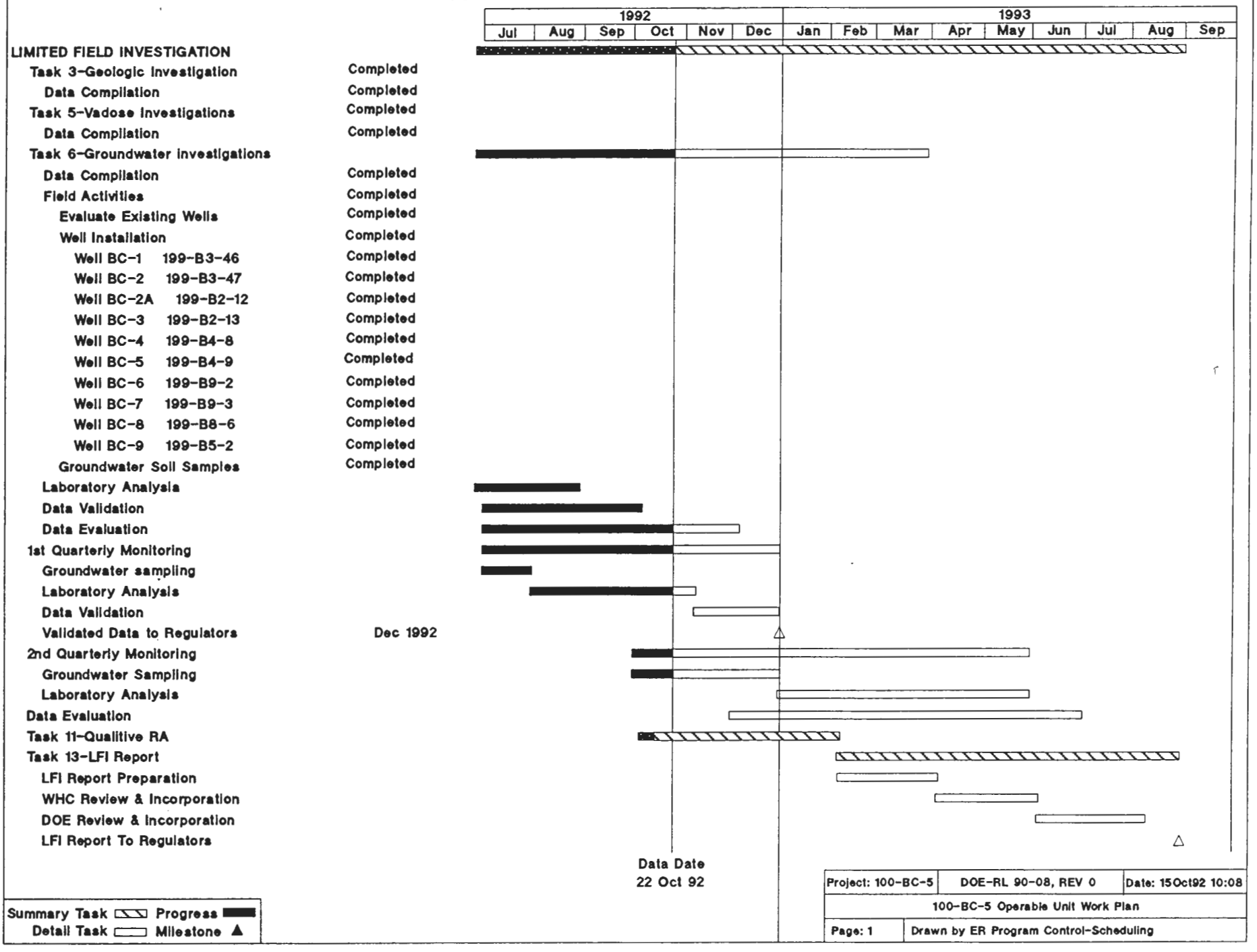
Project: 100-FR-1	DOE-RL 90-33, REV 0	Date: 16Oct92 11:29
100-FR-1 OPERABLE UNIT WORK PLAN		
Page: 1	Drawn by ER Program Control-Scheduling	

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

9 3 1 2 7 3 9 1 9 0 3

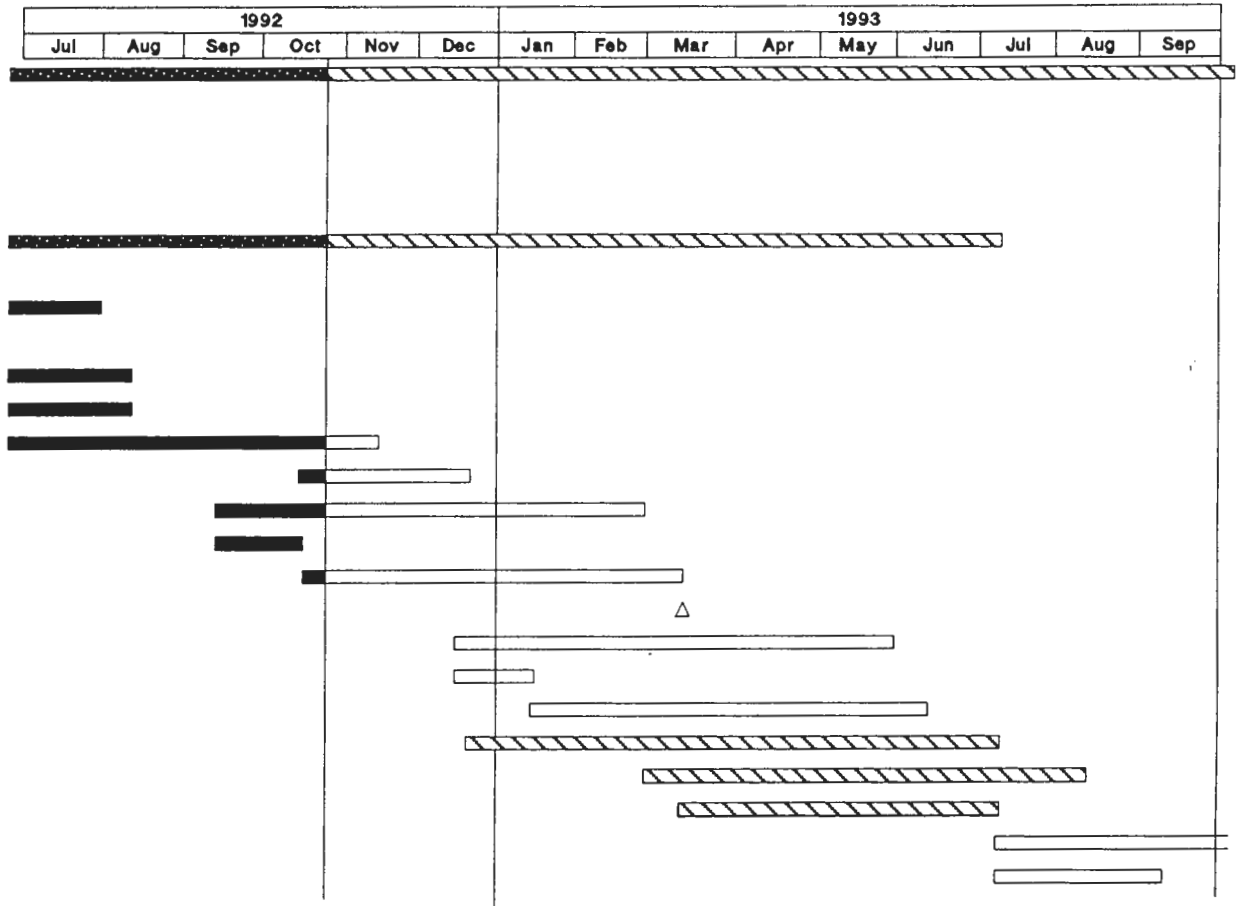
9 3 1 2 7 : 9 1 9 0 4

100-BC-5 OPERABLE UNIT



#10/Page 2 of 5

100-KR-4 OPERABLE UNIT

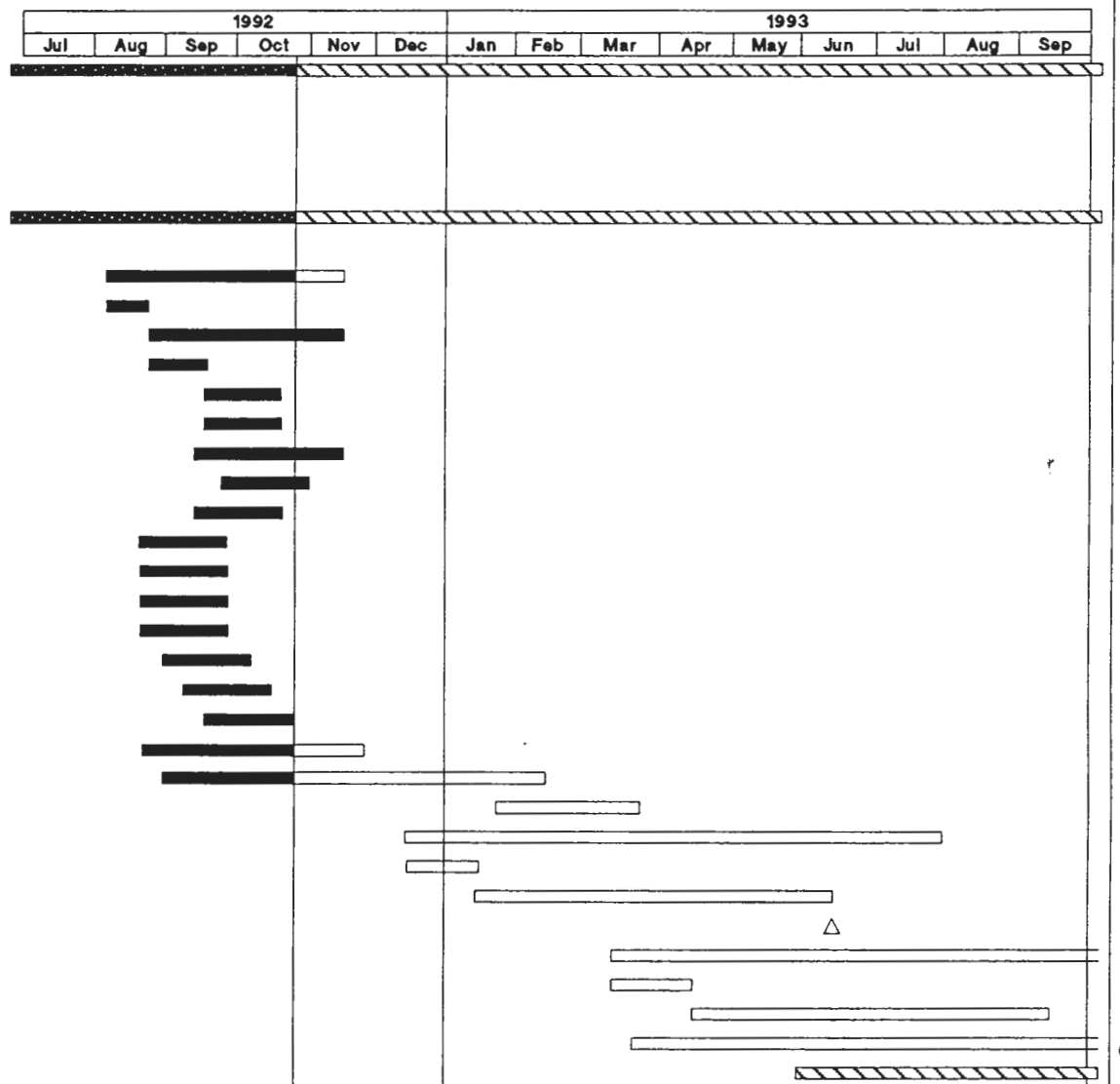


LIMITED FIELD INVESTIGATION	
Task 3-Geological Investigation	Complete
Data Compilation	Complete
Task 5-Vadose Investigation	Complete
Data Compilation	Complete
Task 6-Groundwater Investigation	
Data Compilation	Complete
Field Activities	
Evaluate Existing Wells	Complete
WELL INSTALLATION	
Groundwater/Soil Samples	
Laboratory Analysis	
Data Validation	
1st Quarterly Monitoring	
Groundwater Sampling	
Laboratory Analysis/Validation	
Validated Data to Regulators	March 1993
2nd Quarterly Monitoring	
Groundwater Sampling	
Laboratory Analysis/Validation	
Data Evaluation	
Task 10-Data Evaluation	
Task 11 -Qualitative RA	
Task 13-LFI Report	
LFI Report Preparation	

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



LIMITED FIELD INVESTIGATION	
Task 3-Geological Investigation	Completed
Data Compilation	Completed
Task 5-Vadose Investigation	Completed
Data Compilation	Completed
Task 6-Groundwater Investigation	
Data Compilation	Completed
Field Activities	
Evaluate Existing Wells	
Well Installation	
Well F3-1 199-F6-1	
Well F3-2 199-F5-42	
Well F3-3 199-F5-43A	
Well F3-3A 199-F5-43B	
Well F3-4 199-F5-44	
Well F3-5 199-F1-2	
Well F3-6 199-F5-45	
Well F3-7 199-F5-48	
Well F3-8 199-F5-47	
Well F3-9 199-F8-3	
Well F3-11 199-F5-46	
Well F3-12 199-F7-3	
Well F3-13 199-F8-4	
Groundwater/Soil Samples	
Laboratory Analysis	
Data Validation	
1st Quarterly Monitoring	
Groundwater Sampling	
Laboratory Analysis/Validation	
Validated Data to Regulators	June 14, 1993
2nd Quarterly Monitoring	
Groundwater Sampling	
Laboratory Analysis/Validation	
Data Evaluation	
Task 10-Data Evaluation	

Summary Task ▨ Progress ▬
Detail Task ▭ Milestone ▲

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	

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

9 3 1 2 7 0 9 1 9 0 7

Control Number	100 NPL Agreement/Change Control Form	Date Submitted
35	X Change X Agreement Information Operable Unit(s) 100 Area: 100-BC-1,HR-1,DR-1	10/21/92 Date Approved

Document Number & Title:	Date Document Last Issued
Treatability Study Program Plan, (Decisional Draft), DOE/RL-92-48	To RL 7/14/92.

Originator	Phone
J. G. Woolard	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.

R. E. Day RE Day — Oct 21, 1992
WHC Operable Unit Coordinator — Date
E. D. Goller ED Goller — 10/21/92
DOE Unit Manager — Date
Rich Hibbard Rich B Hibbard — 10/21/92
Ecology Unit Manager — Date
Dennis Faulk Laurence E Gadliors — Oct 21, 1992
Env. Protection Agency Unit Manager — Date

Per Action Plan for Implementation of the Hanford Consent Order and Compliance Agreement Section 9.3

93127191908

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.

9 3 1 2 7 . 9 1 9 1 9

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.

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