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May 9, 1990

Meeting Minutes Transmittal/Approval
Unit Managers Meeting: 100-BC-1/BC-5 Operable Units
450 Hills Street, Room 47, Richland, WA
April 19, 1990

From/
Appvl. _____ Date: 5/17/90
J.B. Goodenough, 100-BC-1 Unit Manager, DOE-RL (A6-95)

Appvl. _____ Date: 5/17/90
K. Michael Thompson, 100-BC-5 Unit Manager, DOE-RL (A6-95)

Appvl.: _____ Date: 5/17/90
Douglas R. Sherwood, 100-BC-1/BC-5 Unit Manager, EPA (A7-70)

Appvl.: _____ Date _____
Larry Goldstein, 100-BC-1/BC-5 Unit Manager, WA Department of Ecology

To: Ward Staubitz, USGS
Donna Lacombe, PRC
Jerry Chiaramonte, SWEC/IT (A4-35)
Jack Waite, WHC (B2-35)
Bob Julian, WHC (H4-55)
Tom Wintczak, WHC (B2-15)
Mel Adams, WHC (H4-55)
Rick McCain, WHC (H4-55)
Roy Gephart, PNL (K6-97)
Brian Sprouse, WHC (H4-22)
Diane Clark, DOE-RL (A5-55)
Bill Price, WHC (S0-03)
Don Kane, Battelle EMO (K1-74)
Bill Green, WHC (H4-55)
Chuck Cline, Ecology

cc. Ronald D. Izatt (A6-95)
Director, DOE-RL, ERD
Ronald E. Gerton
Director, DOE-RL, WMD
Roger D. Freeberg (A6-95)
Chief, Rstr. Br., DOE-RL/ERD
Steven H. Wisness (A6-95)
Tri-Party Agreement Proj. Mgr.
Richard D. Wojtasek (B2-15)
Prgm. Mgr. WHC
Jim Patterson, WHC
Doug Sherwood, EPA

ADMINISTRATIVE RECORD (100-BC-1, 100-BC-5) [Care of Susan Wray, WHC (H4-51C)]

Meeting Minutes are attached. Minutes are comprised of the following:
Attachment #1 - Meeting Summary/Summary of Commitments and Agreements;
Attachment #2 - Attendance List and;
Attachment #3 - Viewgraphs used in presentation

Prepared by: _____ Date: 5/17/90
SWEC Support Services

Concurrence by: _____ Date: _____
WHC BC-1/BC-5, RI Coordinator

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Attachment #1

Meeting Summary and Summary of Commitments and Agreements
100-BC-1/BC-5 Operable Units Managers Meeting
450 Hills Street, Room 47
April 19, 1990

1. The meeting was centered around a general discussion of the 100-BC-1 and BC-5 Work Plans as delivered for review. EPA raised a question on the definition of the 100-BC-5 Boundary as shown in the plans. The boundary does not conform to the aggregate area definition of the Strategy Document. It is EPA's desire that continuity across the 100 Area NPL site be maintained. To accomplish this, wells may be necessary that close the gaps between the individual reactor areas.

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Attachment #2

Attendance List
1100-BC-1/BC-5 Unit Managers Meeting
April 19, 1990

Name	Organization	BC-1/BC-5 Responsibility	Phone
D.R. Sherwood	EPA	BC-1/BC-5 Unit Mgr	509-376-9529
C.S. Cline	WDOE	Hydrogeologist	206-438-7556
T. Young	WDOE	Data Mgt	206-438-7695
J.D. Goodenough	DOE-RL	BC-1 Unit Mgr	509-376-7087
R. Pressentin	DOE-RL	Admin. Ass't	509-376-5983
K.M. Thompson	DOE-RL	BC-5 Unit Mgr	509-376-6421
D.A. Myers	SWEC/IT	GSSC for DOE/RL	509-376-0969
M.M. Gasser	SWEC	GSSC for DOE/RL	509-376-9830
W. Staubitz	USGS	EPA Consultant	206-593-6510
D. Lacombe	PRC	EPA Consultant	206-624-2692
M. Lauterbach	WHC	EE&T Group	509-376-5257
J. Patterson	WHC	Env. Programs	509-376-0568
F.V. Roeck	WHC	RI Coordinator	509-376-8819
V. Rohay	WHC	Geosciences	509-376-5507
B. Wright	GAI	WHC Consultant	206-883-0777
K.L. Pittman	GAI	WHC Consultant	206-883-0777

Attachment #3

100-BC-1 and 100-BC-5

Operable Unit

Work Plans

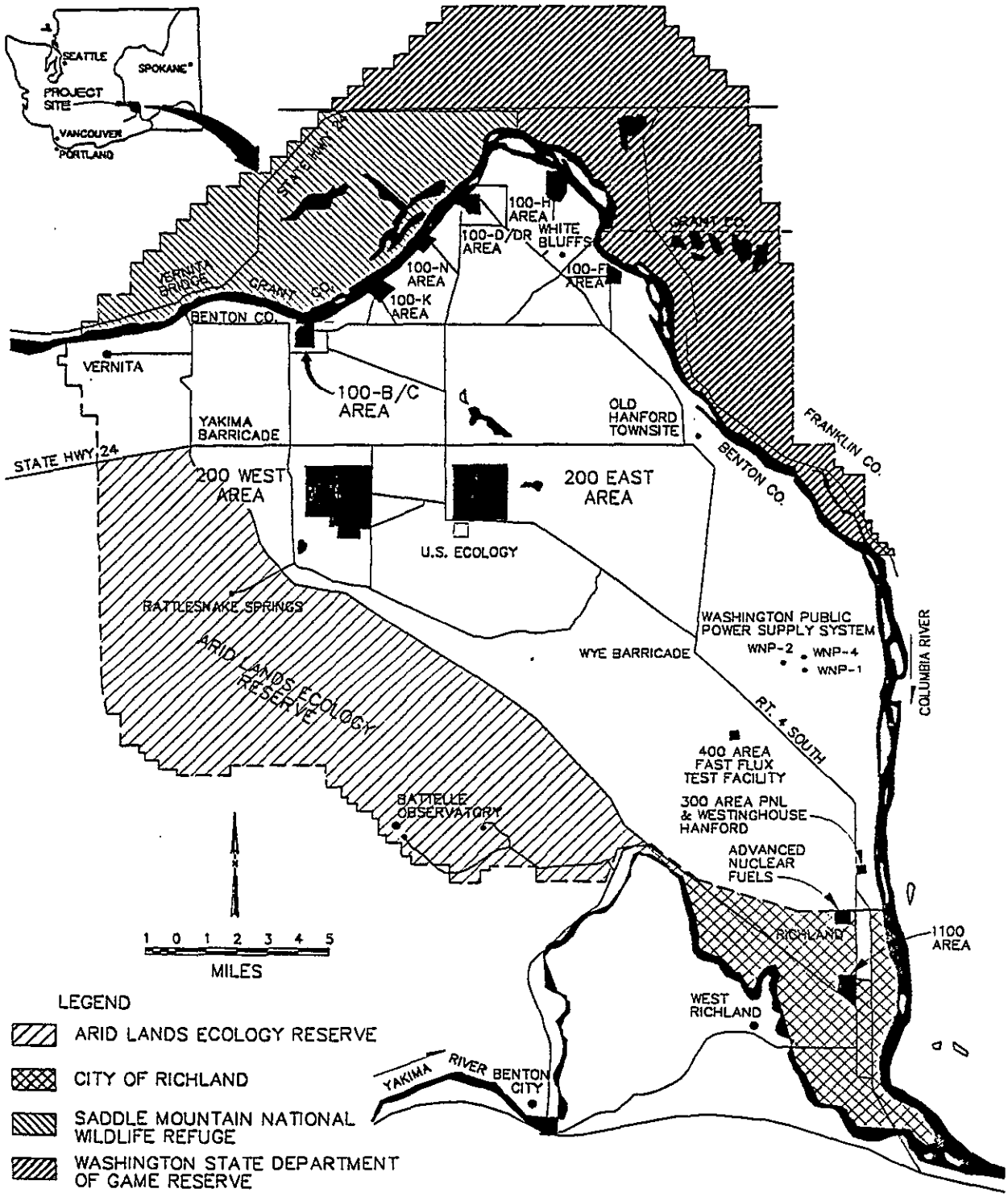


Figure 1-1. Hanford Site, U.S. Department of Energy.

BC1031.DWG

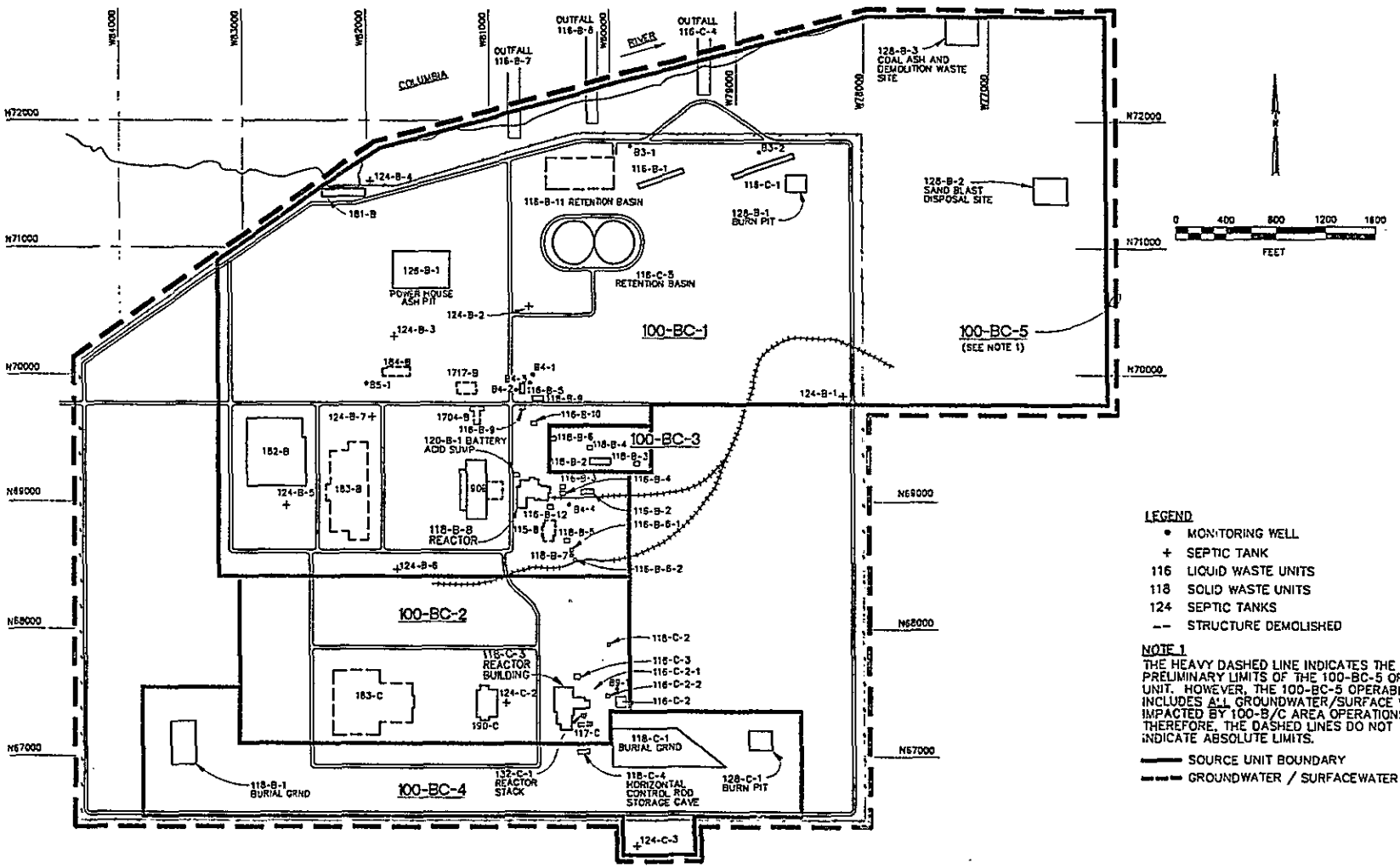
100-BC Area History

B Reactor
(First Hanford Production Reactor,
Nominated as National Historic Site)

Construction - 1943
Operation - 1944 to 1968

C Reactor

Construction - 1951
Operation - 1952 to 1969


COLUMBIA
RIVER
OUTFALL 116-B-7
OUTFALL 116-B-8
OUTFALL 116-C-4
128-B-3 COAL ASH AND DEMOLITION WASTE SITE
128-B-2 SAND BLAST DISPOSAL SITE
128-B-1 BURN PIT
116-B-11 RETENTION BASIN
116-C-5 RETENTION BASIN
128-B-1 POWER HOUSE ASH PIT
100-BC-1
100-BC-5
(SEE NOTE 1)
100-BC-3
100-BC-2
100-BC-4
120-B-1 BATTERY ACID SUMP
118-B-8 REACTOR
116-C-3 REACTOR BUILDING
118-B-1 BURIAL GRND
118-C-1 BURIAL GRND
132-C-1 REACTOR STACK
118-C-4 HORIZONTAL CONTROL ROD STORAGE CAVE
128-C-1 BURN PIT
N72000
N71000
N70000
N69000
N68000
N67000
W81000
W80000
W79000
W78000
W77000
0 400 800 1200 1600
FEET
LEGEND
• MONITORING WELL
+ SEPTIC TANK
116 LIQUID WASTE UNITS
118 SOLID WASTE UNITS
124 SEPTIC TANKS
-- STRUCTURE DEMOLISHED
NOTE 1
THE HEAVY DASHED LINE INDICATES THE PRELIMINARY LIMITS OF THE 100-BC-5 OPERABLE UNIT. HOWEVER, THE 100-BC-5 OPERABLE UNIT INCLUDES ALL GROUNDWATER/SURFACE WATER IMPACTED BY 100-B/C AREA OPERATIONS. THEREFORE, THE DASHED LINES DO NOT INDICATE ABSOLUTE LIMITS.
SOURCE UNIT BOUNDARY
GROUNDWATER / SURFACEWATER

Current Operations

1) Water for use in 200 and other 100 Areas:
   - 181-B Pumphouse
   - 182-B Reservoir
   - Associated Lines

2) In Situ Vitrification:
   - 116-B-6-1 Crib

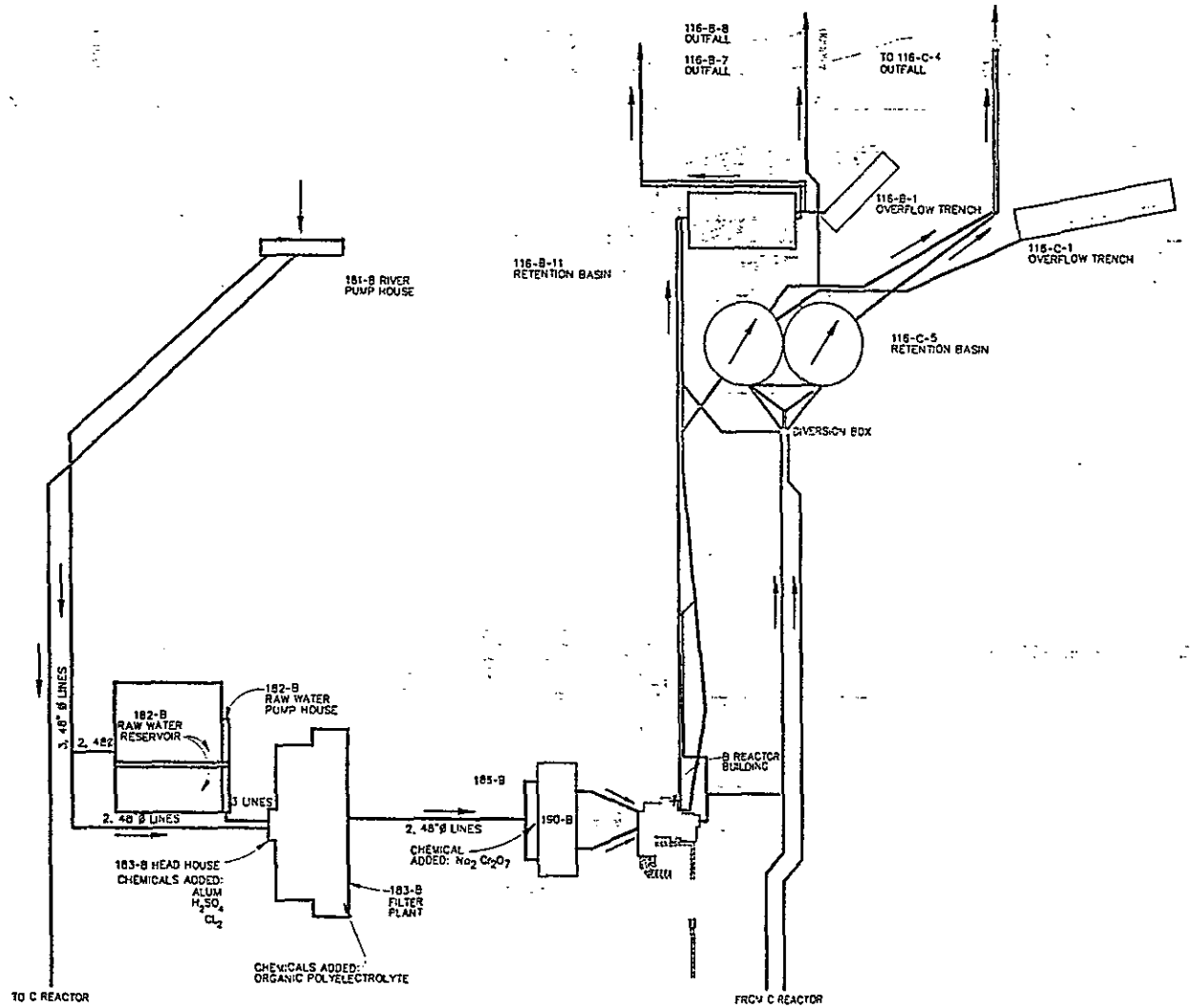
Main Sources

1) Cooling Water System

Leaks in
Retention Basins, Effluent Lines

Elevated Contamination Water
sent to Trenches, Pluto Cribs

Contaminants include:
Co-60, Eu-152,154,155, Sr-90,
Cs-137, Pu-239/240, Nitrates



NOTES
1. LOCATION OF BURIED PIPELINES ARE APPROXIMATE ONLY.

LEGEND

COOLING WATER FLOW

SEPTIC TANK

DEMOLISHED

MONITORING WELL

116 LIQUID WASTE UNIT

118 SOLID WASTE UNIT

124 SEPTIC TANK

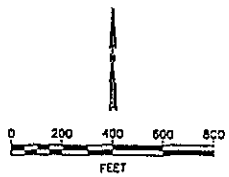


Figure 2-2. Flow Circuit for Water from the Columbia River Through the B Reactor

Main Sources *(Con't)*

2) Tritium Recovery (108-B)

Tritium Disposed of in 116-B-5

Most Mercury Disposed of in 118-B-1

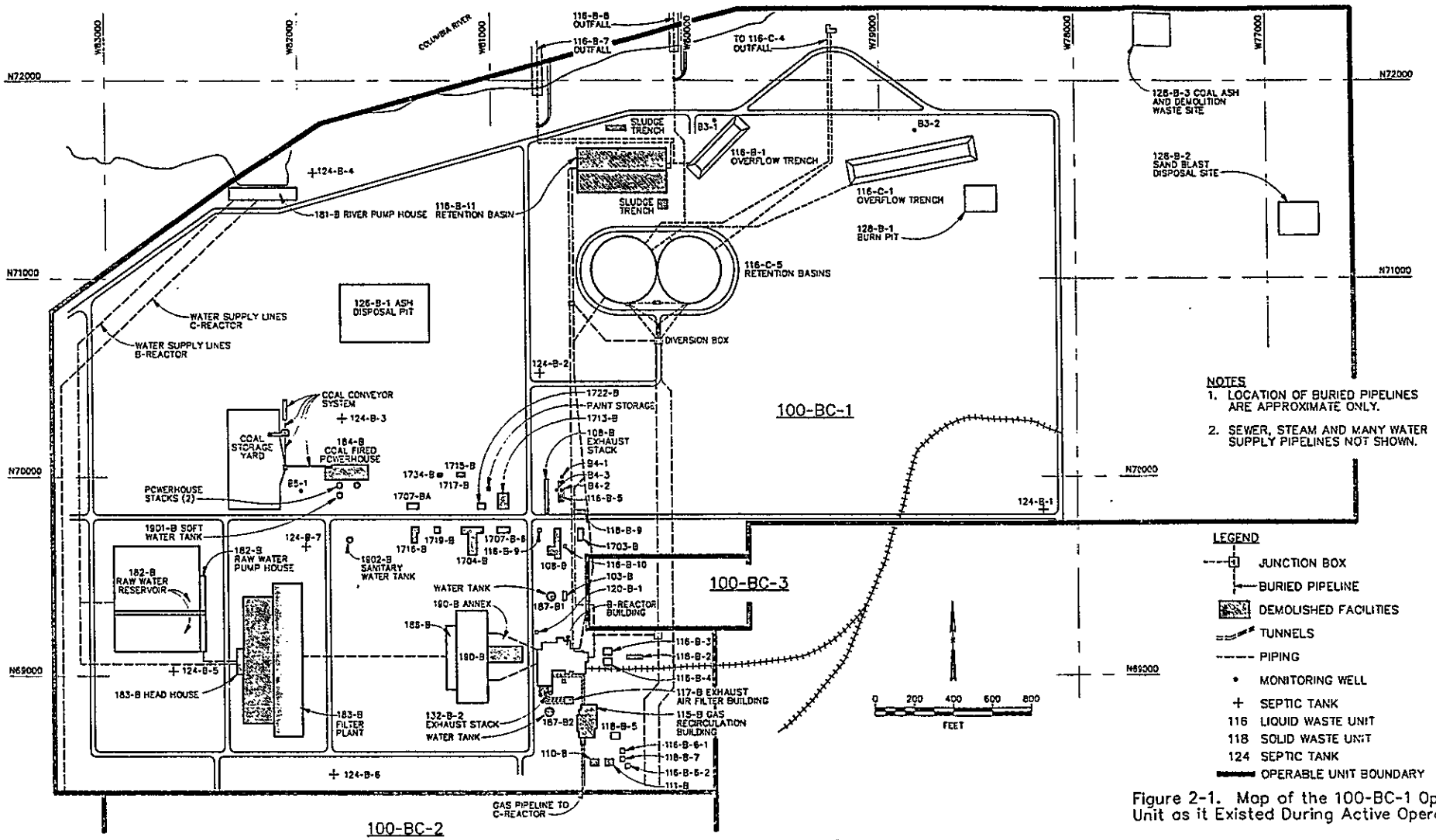


Figure 2-1. Map of the 100-BC-1 Operable Unit as it Existed During Active Operations.

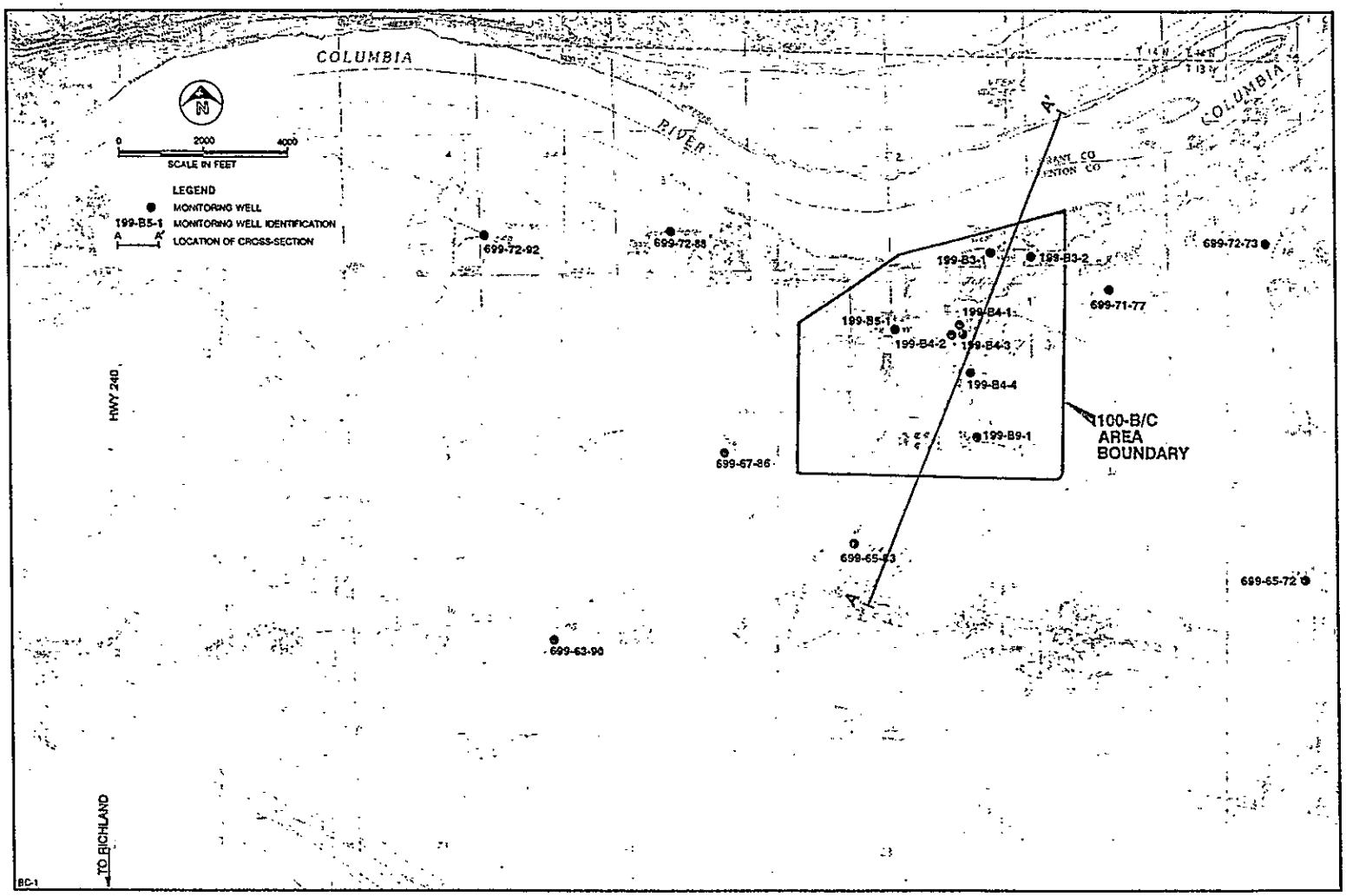


Figure 2-15. Monitoring Well Locations for 100-B/
Area - January 1990

Approach

Phase I Groundwater: Drill Wells to Investigate Hydrology and Known Potential Sources of Groundwater Contamination at all BC Operable Units

Early Source Investigations: Conduct Non-invasive Surface Studies to

- Help Guide Phase I Groundwater Wells and Understand Data
- Build Foundation to Guide Later Source Studies

Approach *(con't)*

Later Source Investigations: Drill Boreholes to Study Sources After Phase I Groundwater Well Drilling to

- Define "Bad Actors" for Feasibility Study
- Assess Long-Term Risk of Sources with no Short-Term Risk

Phase II Groundwater: As Needed,

- Refine Groundwater Data,
- Assess Identified Contributors
- Assess Contribution of Other Sources