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Department of Energy
Richland Field Office
P.O. Box 550
Richland, Washington 99352

OCT 0 8 1992

93-ERB-010

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Mr. Paul T. Day
Hanford Project Manager
U.S. Environmental Protection Agency
712 Swift Boulevard, Suite 5
Richland, Washington 99352

Mr. David B. Jansen, P.E.
Hanford Project Manager
State of Washington
Department of Ecology
P.O. Box 47600
Olympia, Washington 98504-7600

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Dear Messrs. Day and Jansen:

VALIDATED DATA FOR THE 100-BC-1 OPERABLE UNIT (OU) LIMITED FIELD INVESTIGATION (LFI)

Enclosed please find three data validation reports submitted by the U.S. Department of Energy, Richland Field Office (RL) to the U.S. Environmental Protection Agency (EPA) and the State of Washington Department of Ecology (Ecology). Submittal of the subject documents by RL to EPA and Ecology completes the proposed M-15-08A Hanford Federal Facility Agreement and Consent Order interim milestone (IM). The proposed M-15-08A IM description (DOE ltr. to P. T. Day from S. H. Wisness, "Submittal of the 100-BC-1 Operable Unit Remedial Investigation/Feasibility Study Work Plan, Draft D, for Approval," dtd. July 14, 1992) is as follows:

> Submit validated data of all sampling activities associated with Section 5.1.1.2, "Source Investigations," and Section 5.1.1.5, "Vadose Zone Investigations" for 100-BC-1 OU to Ecology and EPA. IM completion date: October 9, 1992.

The subject documents include the following:

- Maps showing 100-BC-1 OU sampling locations.
- Data Validation Reports for lab analysis of samples collected for the 100-BC-1 OU LFI at:
  - Electrical Facilities
  - 116-C-5 Test Pits
  - Vadose Boreholes
- Sample location identification table.

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The reports include data summary tables describing analyte concentrations for each sample, and a case summary of data package validation. The data was validated by a review of laboratory performance and implementation of appropriate procedures per Data Validation Procedures for Chemical Analyses, WHC-SD-EN-SPP-002, Revision 1, dated April 1, 1992, and Data Validation Procedures for Radiological Analyses, WHC-SD-EN-SPP-001, Revision 0, dated January 21, 1992.

Please address comments or questions regarding this correspondence or Hanford Site 100 Area Past-Practice environmental investigations to Mr. Eric Goller on (509) 376-7326.

Sincerely,

Steven H. Wisness
Hanford Project Manager

ERD:EDG

Enclosures:
1. Data Validation Report for the 100-BC-1 OU Electrical Facilities
2. Data Validation Report for the 100-BC-1 OU 116-C-5 Test Pits
3. Data Validation Report for the 100-BC-1 OU Vadose Boreholes
4. Maps and Tables of 100-BC-1 Sample Locations

cc w/encls:
D. Teel, Ecology

cc w/o encls:
B. A. Austin, WHC
S. N. Balone, EM-442
R. E. Day, WHC
D. A. Faulk, EPA
D. Goswami, Ecology
R. P. Henckel, WHC
K. O. Kytola, WHC
R. E. Lerch, WHC
J. K. Patterson, WHC
T. B. Veneziano, WHC
R. D. Wojtasek, WHC

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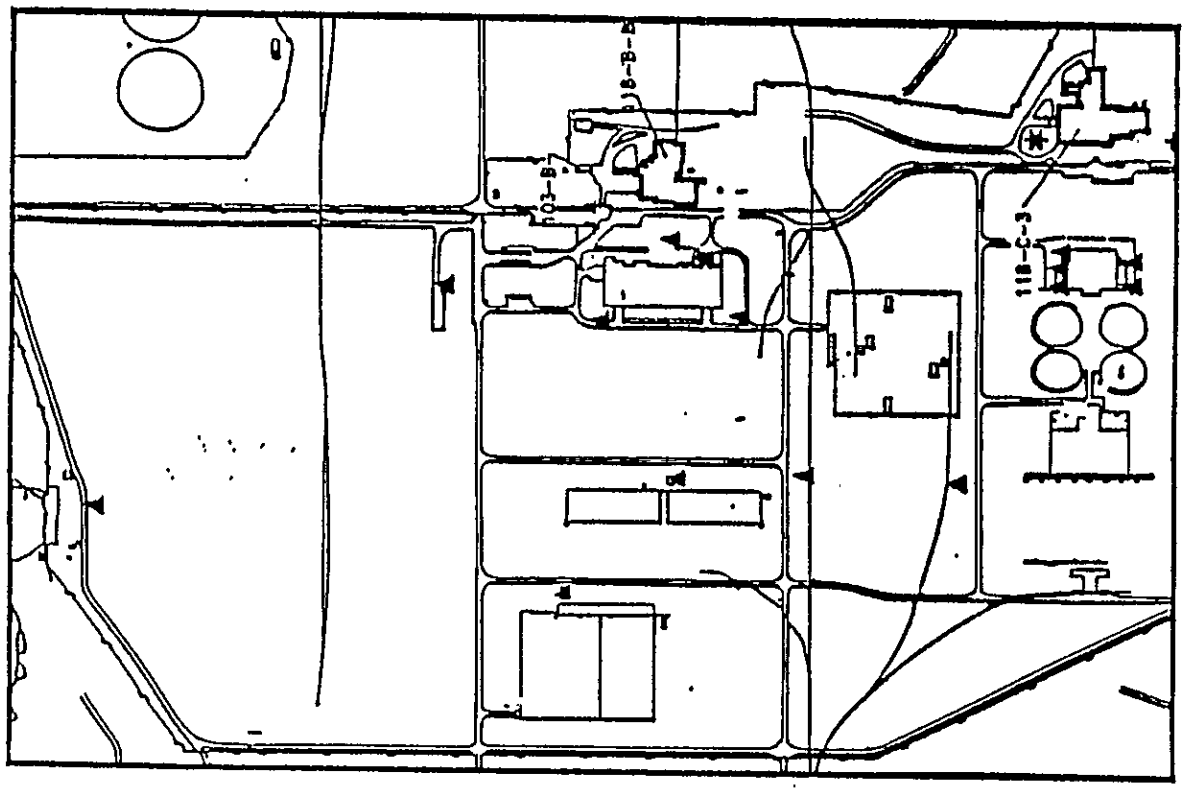
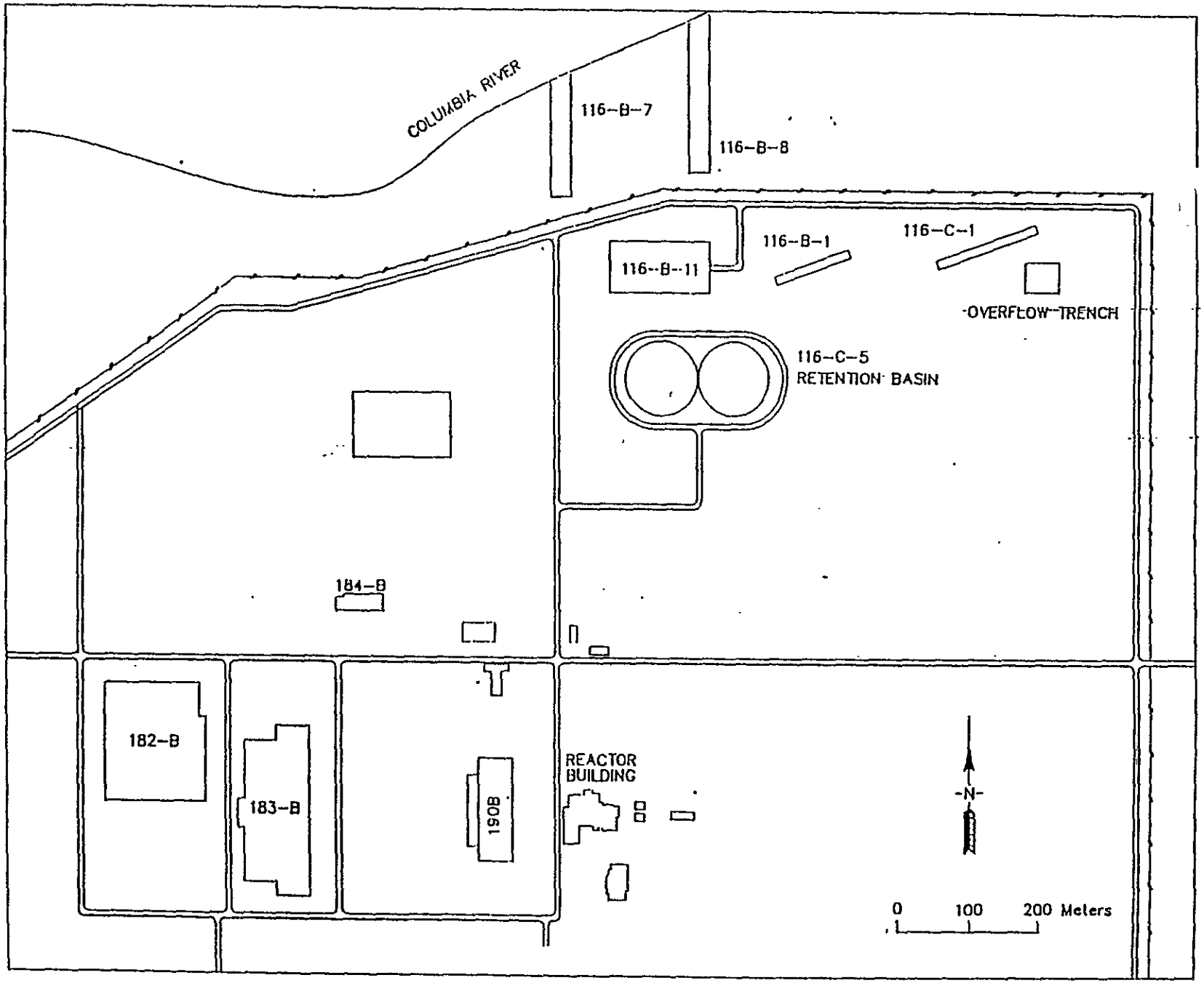
100-B/C Area Electrical Facilities Sample Location.





Location of 116-C-5 Retention Basin

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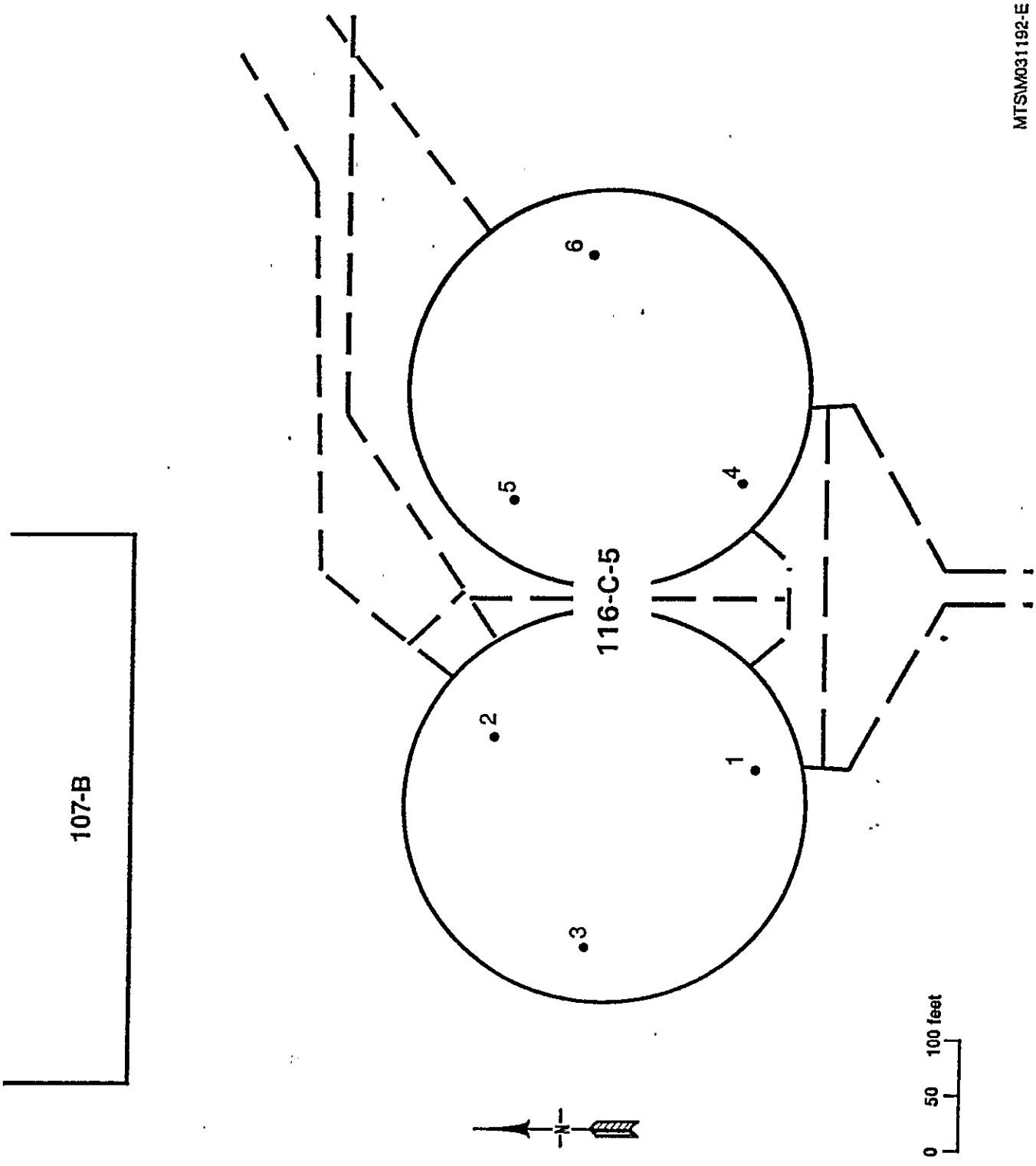
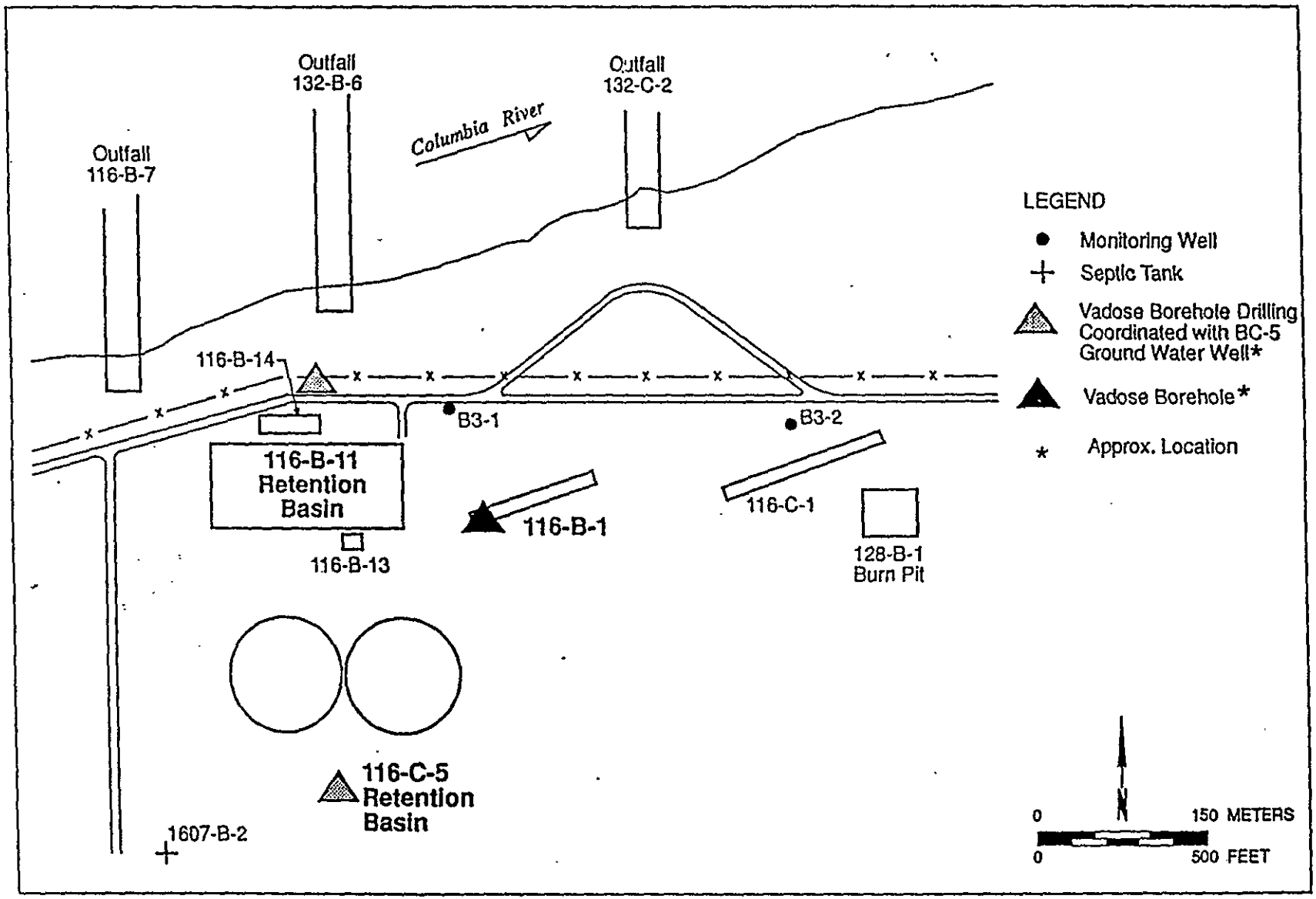
Location of 116-C-5 Test Pits





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Location of Boreholes in 116-B-1 and Those Adjacent to the Retention Basins.

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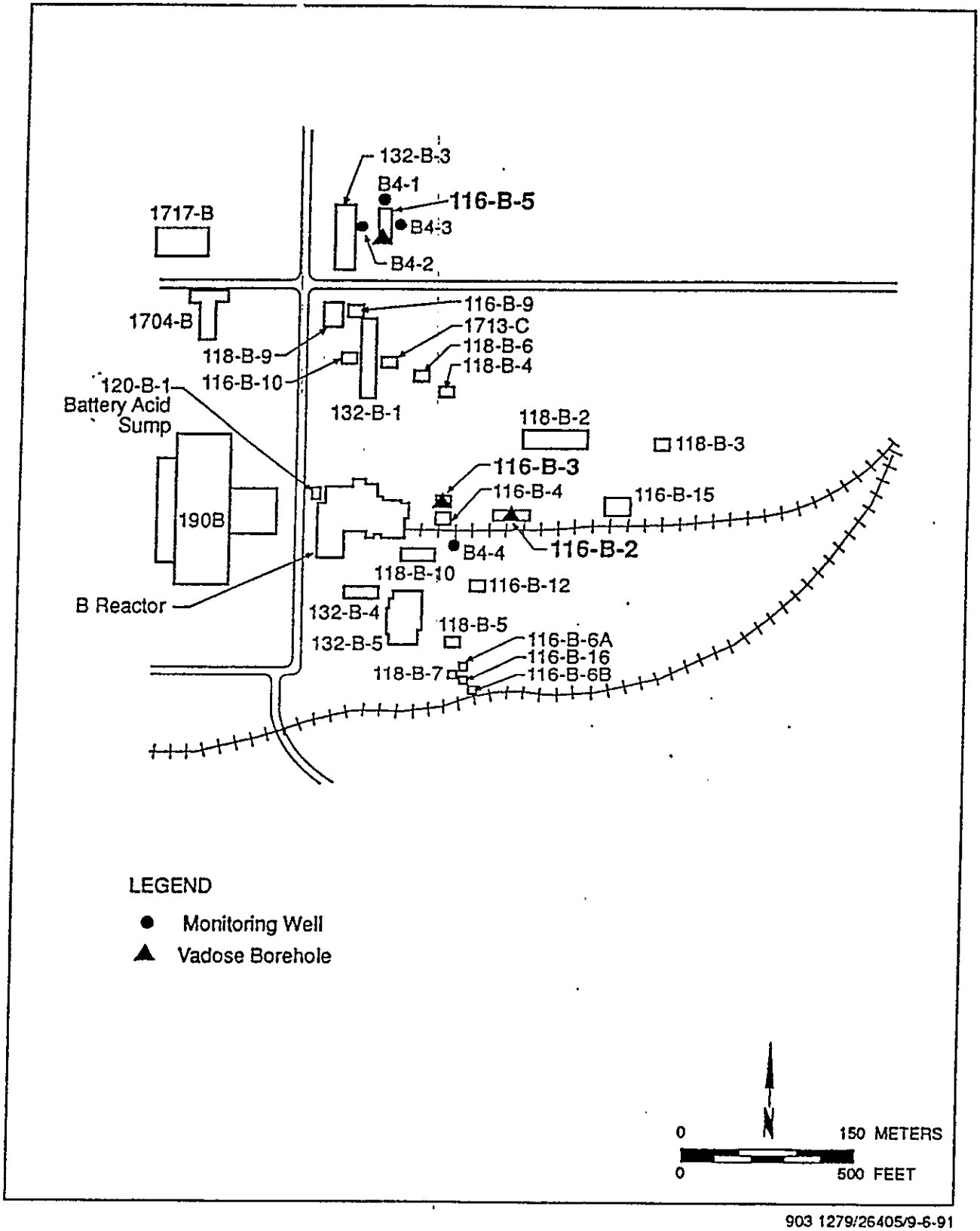
Location of Boreholes 116-B-2, 116-B-3, and 116-B-5.



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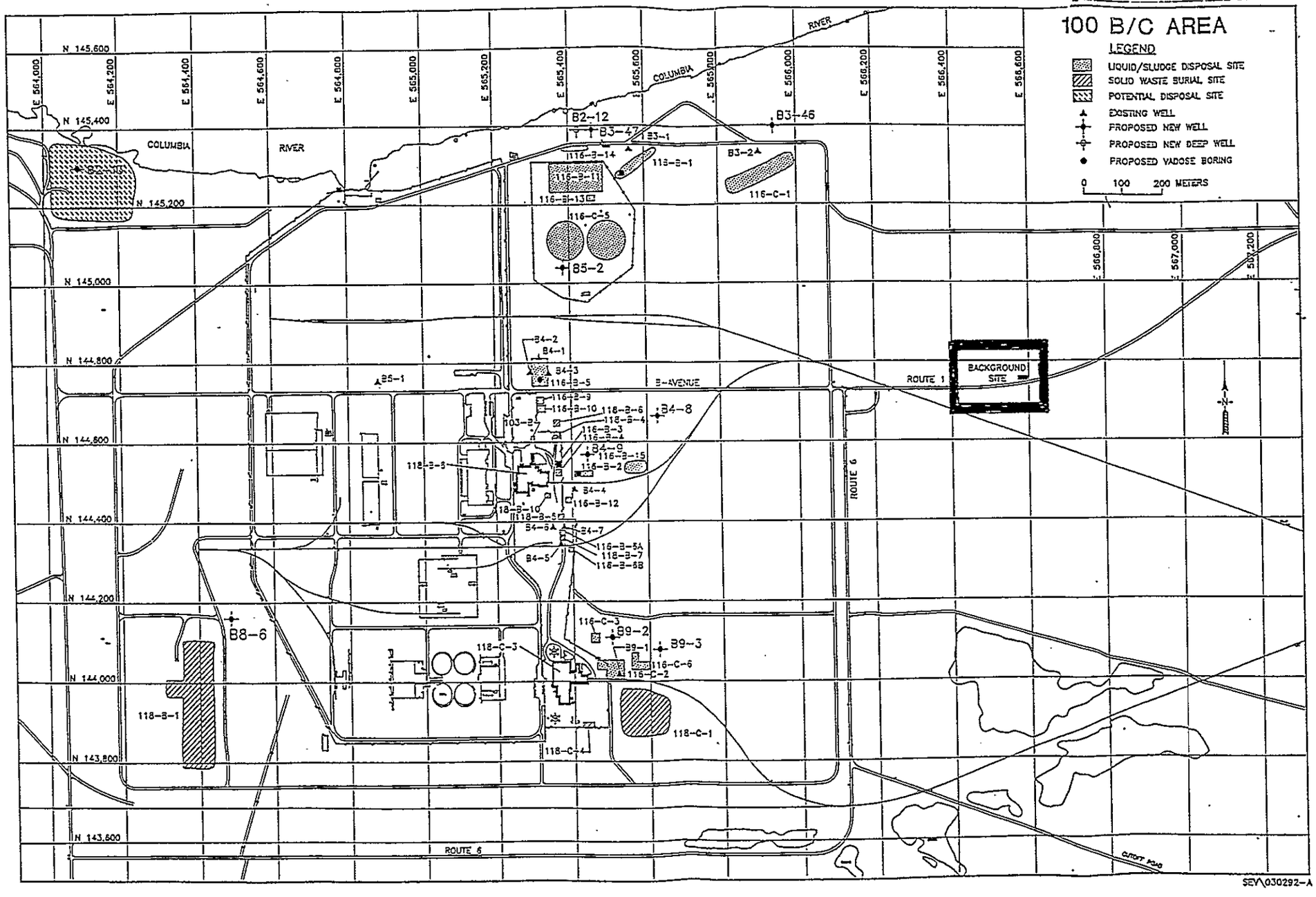
Location of Background Site.



100-BC-1 Operable Unit RI Samples					
#	HEIS #	Activity	Location	Date Sampled	Lab
Source Investigation Activities					
1	B018Q6	Electrical Facilities	181-B, C2-S1	12/09/91	Data-Chem
2	B018Q7	Electrical Facilities	183-B, C2-S3	12/09/91	Data-Chem
3	B018Q8	Electrical Facilities	185-B, E2-S6	12/09/91	Data-Chem
4	B018Q9	Electrical Facilities	185-B, E2-S7	12/09/91	Data-Chem
5	B018R0	Electrical Facilities	190-B - 190 AID	12/09/91	Data-Chem
6	B018R1	Electrical Facilities	", SPLIT	12/09/91	S-Cubed
7	B018R2	Electrical Facilities	190-BA, E2-S10	12/09/91	Data-Chem
8	B018R3	Electrical Facilities	190-C, 152 GIC (North pad), SW SIDE OF PAD	12/09/91	Data-Chem
9	B018R4	Electrical Facilities	190-C, 152 GIC (North pad), SE SIDE OF PAD	12/09/91	Data-Chem
10	B018R5	Electrical Facilities	190-C C5356F	12/09/91	Data-Chem
11	B018R6	Electrical Facilities	", DUPLICATE	12/09/91	Data-Chem
12	B018R7	Electrical Facilities	", SPLIT	12/09/91	S-Cubed
13	B018R8	Electrical Facilities	170-C, 152 GIC (South Pad), E SIDE OF PAD	12/09/91	Data-Chem
14	B018R9	Electrical Facilities	170-C, 152 GIC (South Pad), SE SIDE OF PAD	12/09/91	Data-Chem
15	B018S0	Electrical Facilities	FIELD BLANK	12/09/91	Data-Chem
16	B018S1	Electrical Facilities	EQUIPMENT BLANK	12/09/91	Data-Chem
17	B018S2	Electrical Facilities	C2321, N SIDE OF PAD	12/09/91	Data-Chem
18	B018S3	Electrical Facilities	C2313	12/09/91	Data-Chem
19	B018S4	Electrical Facilities	1713-B, E2-S3	12/09/91	Data-Chem
20	B018V6	116-C-5 Test Pit	East Basin Test Pit #5	4/28/92	TMA
21	B018V7	116-C-5 Test Pit	East Basin Test Pit #4	4/28/92	TMA
22	B018V8	116-C-5 Test Pit	Duplicate, East Basin Test Pit #4	4/28/92	TMA
23	B018V1	116-C-5 Test Pit	East Basin Test Pit #6	4/28/92	TMA
24	B018V0	116-C-5 Test Pit	West Basin Test Pit #2	4/28/92	TMA

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100-BC-1 Operable Unit RI Samples					
#	HEIS #	Activity	Location	Date Sampled	Lab
25	B018V2	116-C-5 Test Pit	West Basin Test Pit #1	4/28/92	TMA
26	B018V3	116-C-5 Test Pit	West Basin Test Pit #3	4/28/92	TMA
27	B018V4	116-C-5 Test Pit	West Basin Composite	4/28/92	TMA
28	B018V5	116-C-5 Test Pit	Duplicate, West Basin Composite	4/28/92	TMA
29	B018V9	116-C-5 Test Pit	Equipment Blank	4/28/92	TMA
Vadose Investigation Activities					
30	B05XY1	Vadose Drilling	116-B-1, 15-17'	03/23/92	TMA
31	B05XY4	Vadose Drilling	116-B-1, 17-19'	03/23/92	TMA
32	B05XY5	Vadose Drilling	116-B-1, 20-22'	03/24/92	TMA
33	B05XY6	Vadose Drilling	116-B-1, 25-27'	03/24/92	TMA
34	B05XY7	Vadose Drilling	116-B-3	04/01/92	TMA
35	B05XY8	Vadose Drilling	116-B-3, 7.5 -9.5'	04/06/92	TMA
36	B05XZ0	Vadose Drilling	116-B-3, 11-13'	04/07/92	TMA
37	B05XZ1	Vadose Drilling	116-B-3 Split	04/07/92	Weston
38	B05XZ2	Vadose Drilling	116-B-3 VOA Sample	04/07/92	TMA
39	B05XZ3	Vadose Drilling	116-B-3, 15-17'	04/08/92	TMA
40	B05XZ4	Vadose Drilling	Background Sample	04/14/92	TMA
41	B05XZ5	Vadose Drilling	Background Sample	04/14/92	TMA
42	B05Y20	Vadose Drilling	116-B-2, 10-12'	03/23/92	TMA
43	B05Y21	Vadose Drilling	116-B-2, 15-18'	03/24/92	TMA
44	B05Y22	Vadose Drilling	116-B-2, 20-22'	03/25/92	TMA
45	B05Y23	Vadose Drilling	116-B-2, 20-22'	03/25/92	
46	B05Y24	Vadose Drilling	116-B-5, 6.6-9.6'	04/16/92	TMA
47	B05Y25	Vadose Drilling	116-B-5, 10-11'	04/20/92	TMA
48	B05Y26	Vadose Drilling	116-B-5, 15-17'	04/21/92	TMA

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Author	Addressee	Correspondence No.
S. H. Wisness, 6-6798	P. T. Day, EPA D. B. Jansen, Ecology	Incoming:9207479

Subject: VALIDATED DATA FOR THE 100-BC-1 OPERABLE UNIT (OU) LIMITED FIELD INVESTIGATION (LFI)

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		R. D. Wojtasek, Assignee	L4-92	
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