

6.0 RADIOLOGICAL SURVEYS

In 2003, there were approximately 3,651 ha (9,022 acres) of posted outdoor contamination areas and 666 ha (1,646 acres) of posted underground radioactive materials areas at the Hanford Site. Survey locations are illustrated in Figures 6-1 through 6-10. These areas were typically associated with cribs, trenches, burial grounds, tank farms, and covered ponds and ditches.

The posted contamination areas vary in number and size between years because of an ongoing effort to clean, stabilize, and remediate areas of known contamination. Concurrently, new areas of contamination are also being identified. Approximately 2 ha (5 acres) in the 200 West Area were reclassified from underground radioactive materials areas to contamination/soil contamination areas during 2003. Six, small contaminated sites in the 200 East Area and one site in the 200 West Area, all totaling less than 1 ha (2 acres), were stabilized and down-posted to underground radioactive materials areas during the year. Several small contaminated areas totaling less than 0.5 ha (1 acre) were added to the 100-H Area total.

Remedial actions in the 100 Areas are ongoing, with decommissioning of facilities and cleanup of inactive waste sites ahead of schedule. The amount of area already remediated is not fully reflected in the reporting of outdoor areas posted as soil contamination areas and/or underground radioactive material areas. These areas are in the various stages of sampling, analysis, regulatory approval, and the posting change status.

It was estimated that the external dose rate at 80% of the identified outdoor contamination areas was less than 1 mrem/hr, although direct dose rate readings from isolated radioactive specks (a diameter less than 0.6 cm [0.25 in.]) could have been considerably higher. Contamination levels of this magnitude did not significantly add to dose rates for the public or Hanford Site workers in 2003.

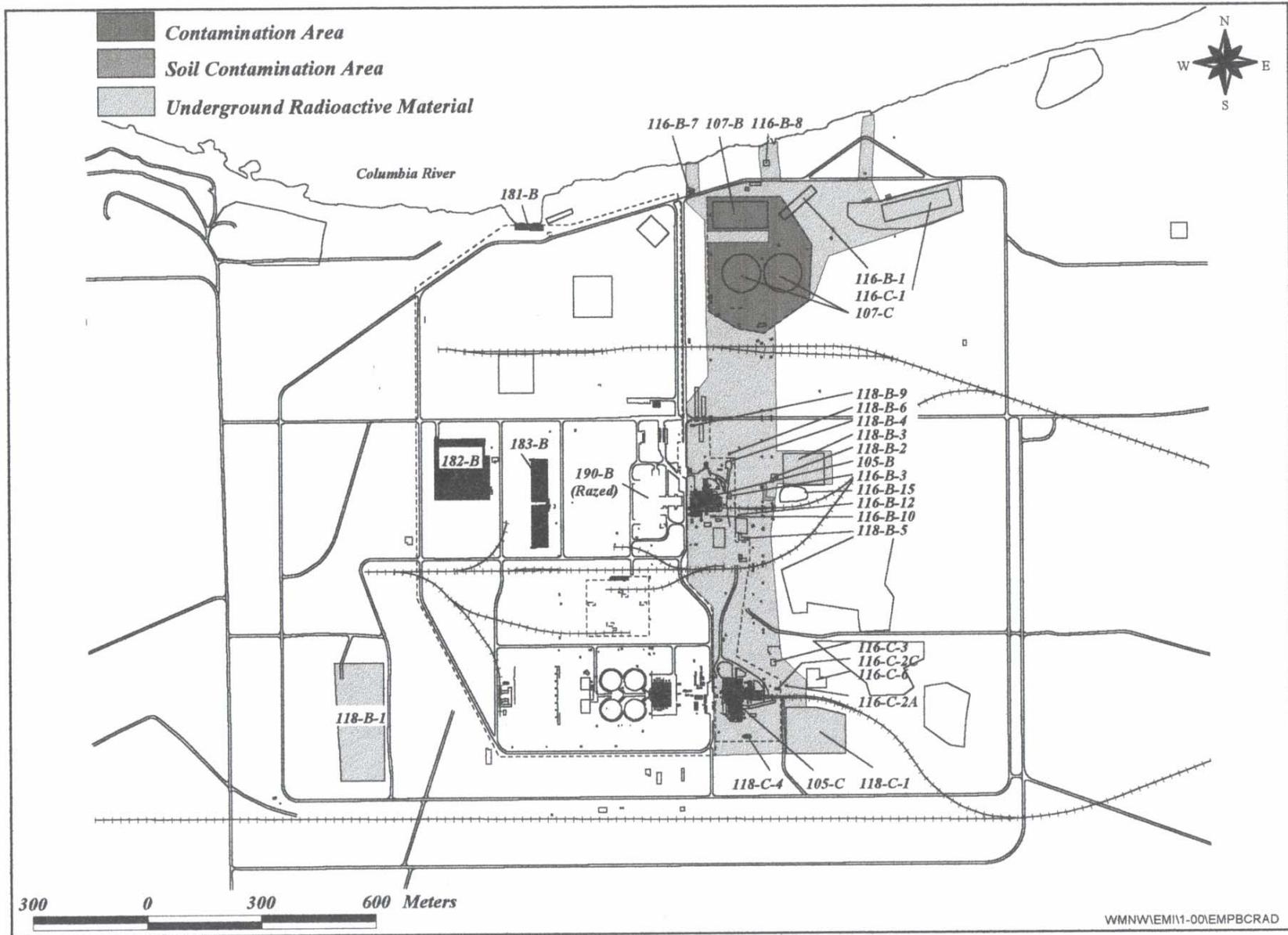


Figure 6-1. 2003 Radiological Survey Locations, 100-B/C Area.

WMNW\EM\11-00\EMPBCRAD

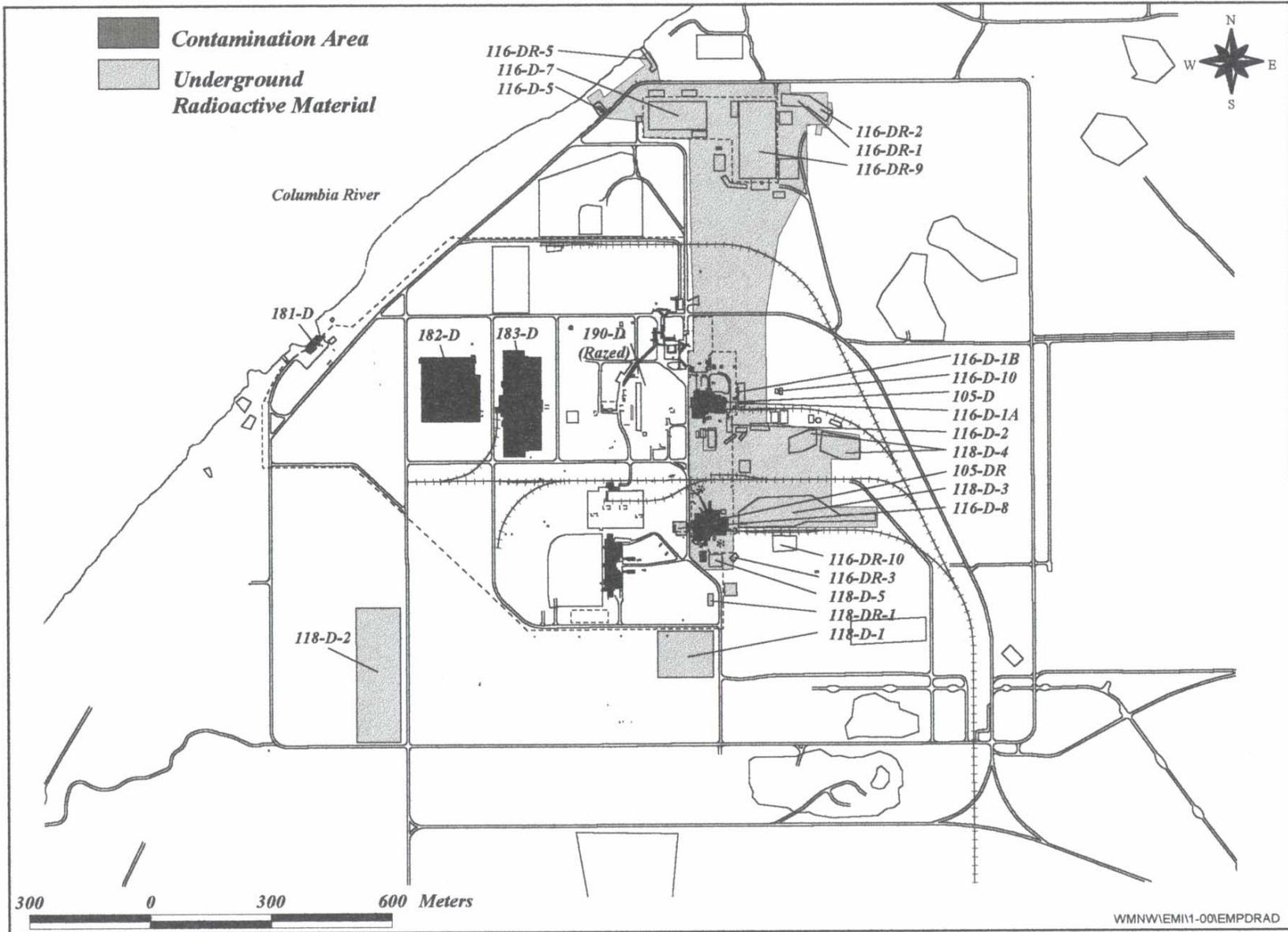


Figure 6-2. 2003 Radiological Survey Locations, 100-D/DR Area.

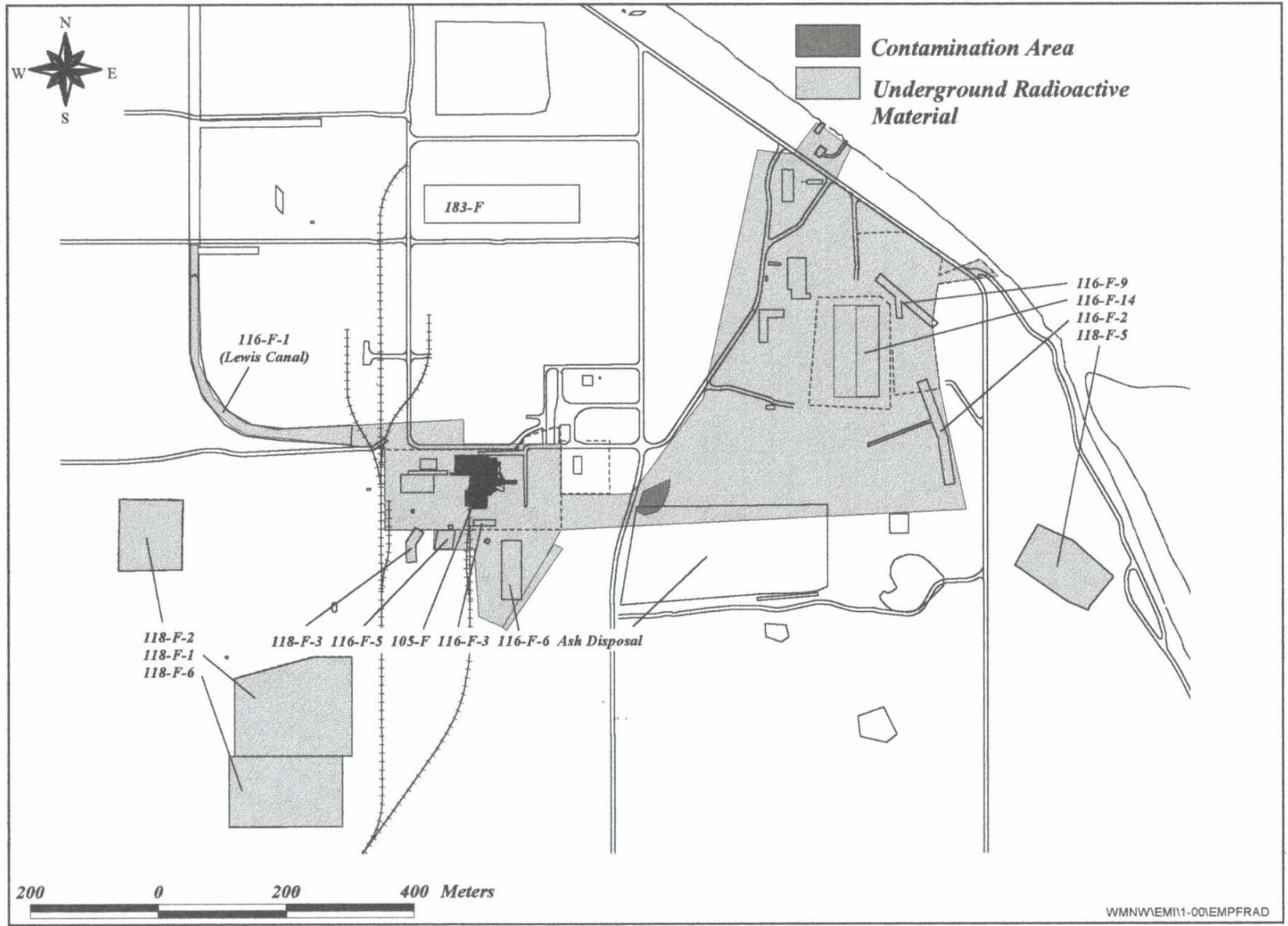


Figure 6-3. 2003 Radiological Survey Locations, 100-F Area.

WMNWLEMI11-001EMPFRAD

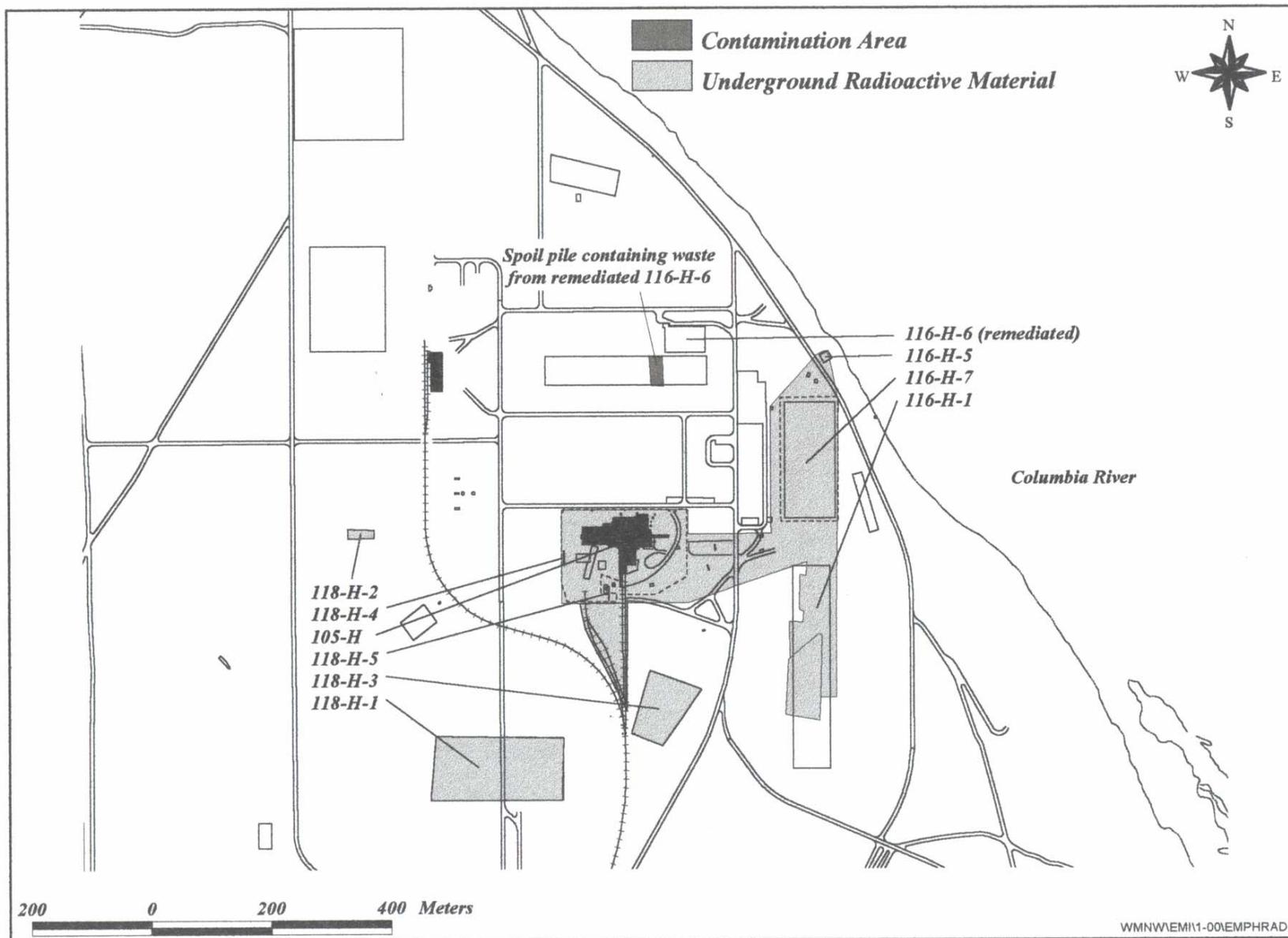


Figure 6-4. 2003 Radiological Survey Locations, 100-H Area.

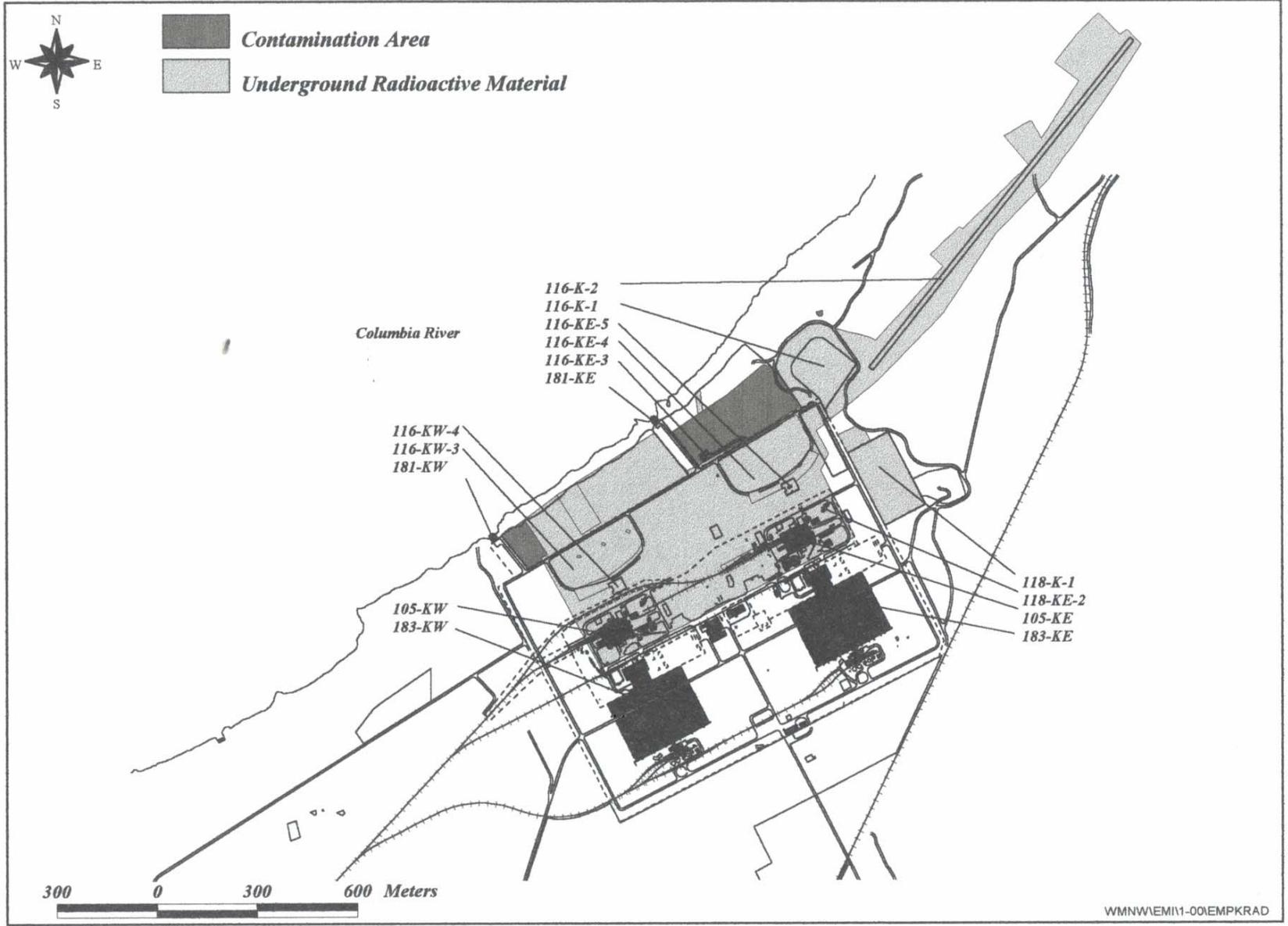


Figure 6-5. 2003 Radiological Survey Locations, 100-K Area.

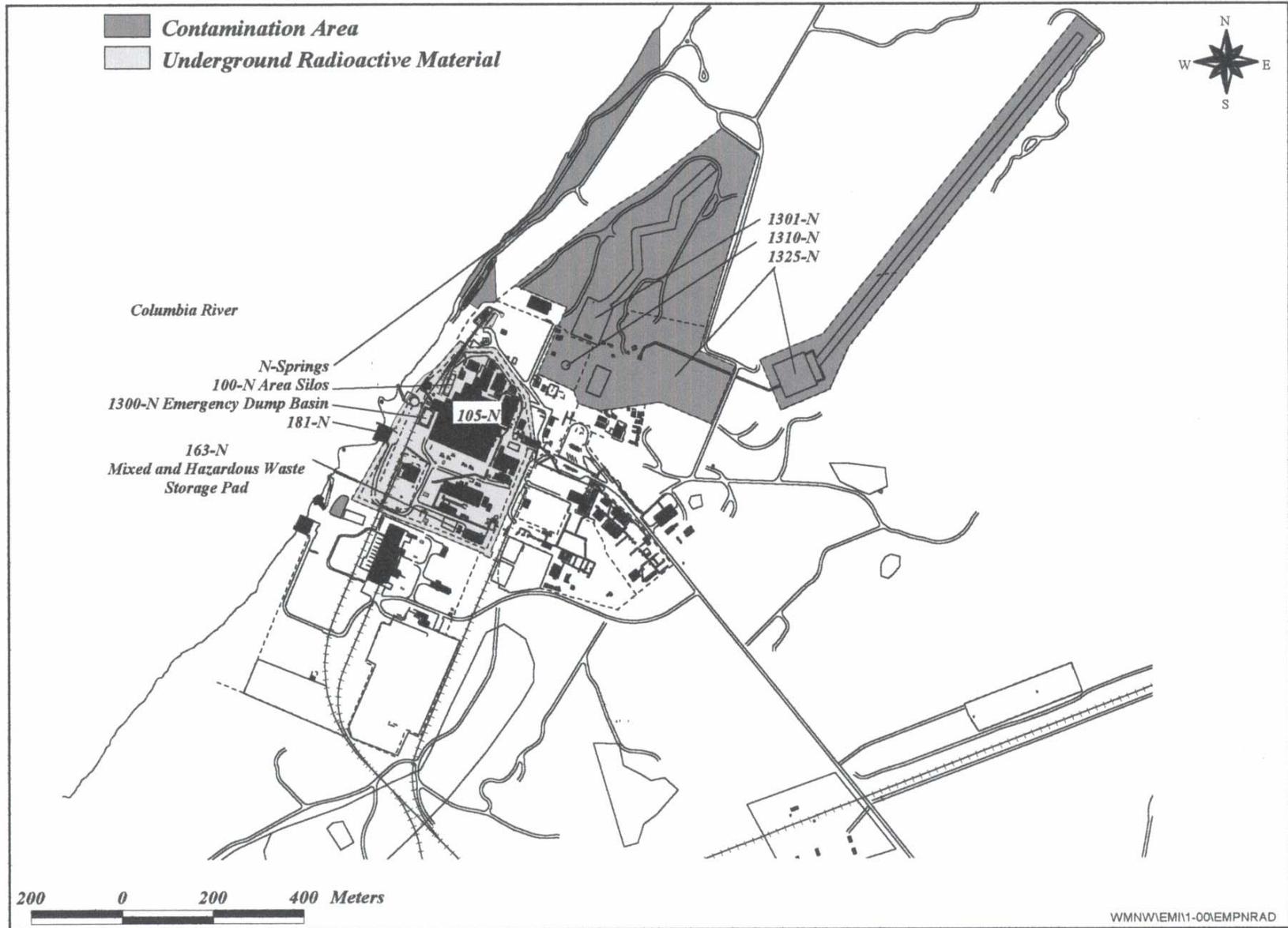


Figure 6-6. 2003 Radiological Survey Locations, 100-N Area.

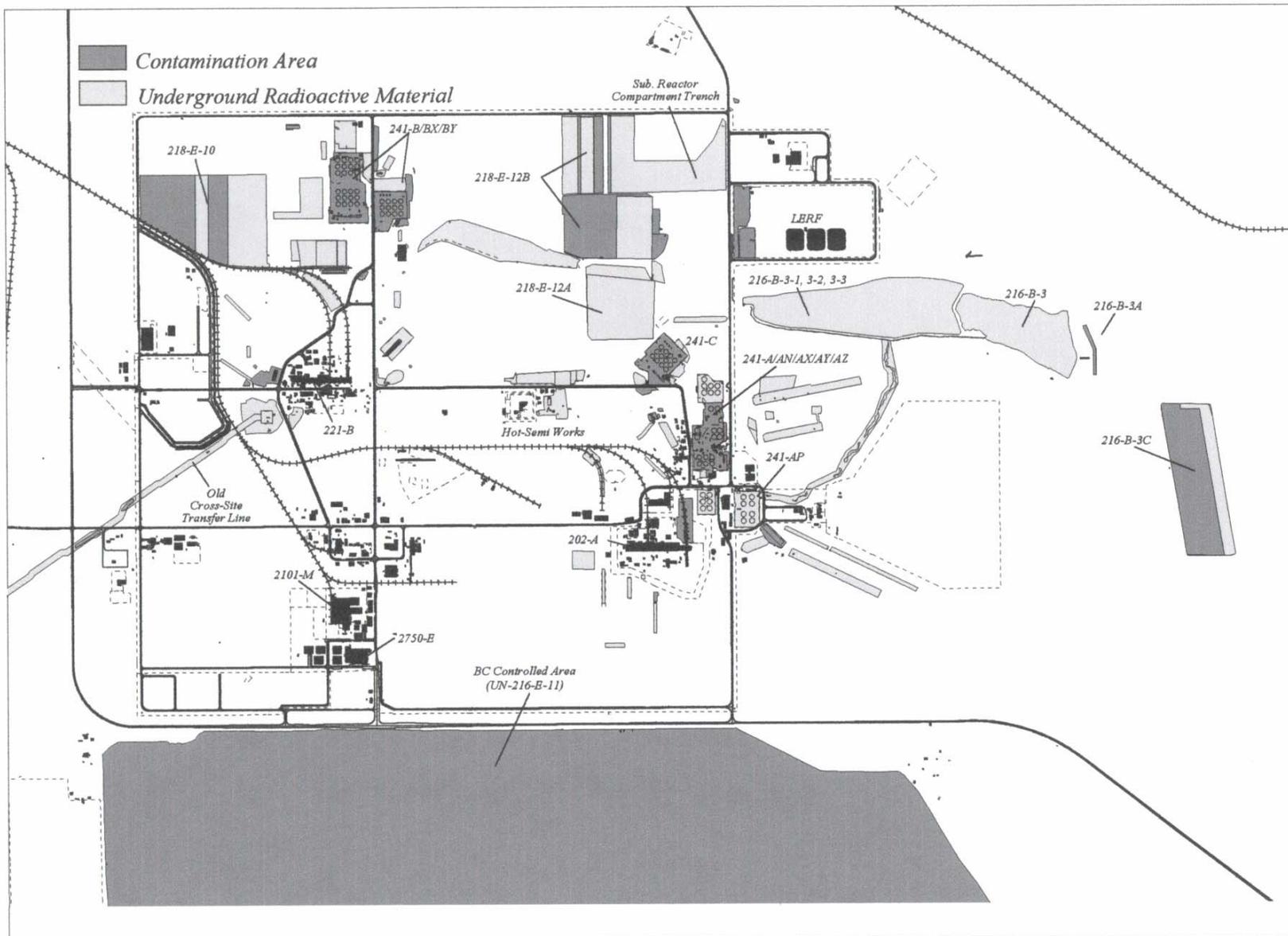


Figure 6-7. 2003 Radiological Survey Locations, 200 East Area.

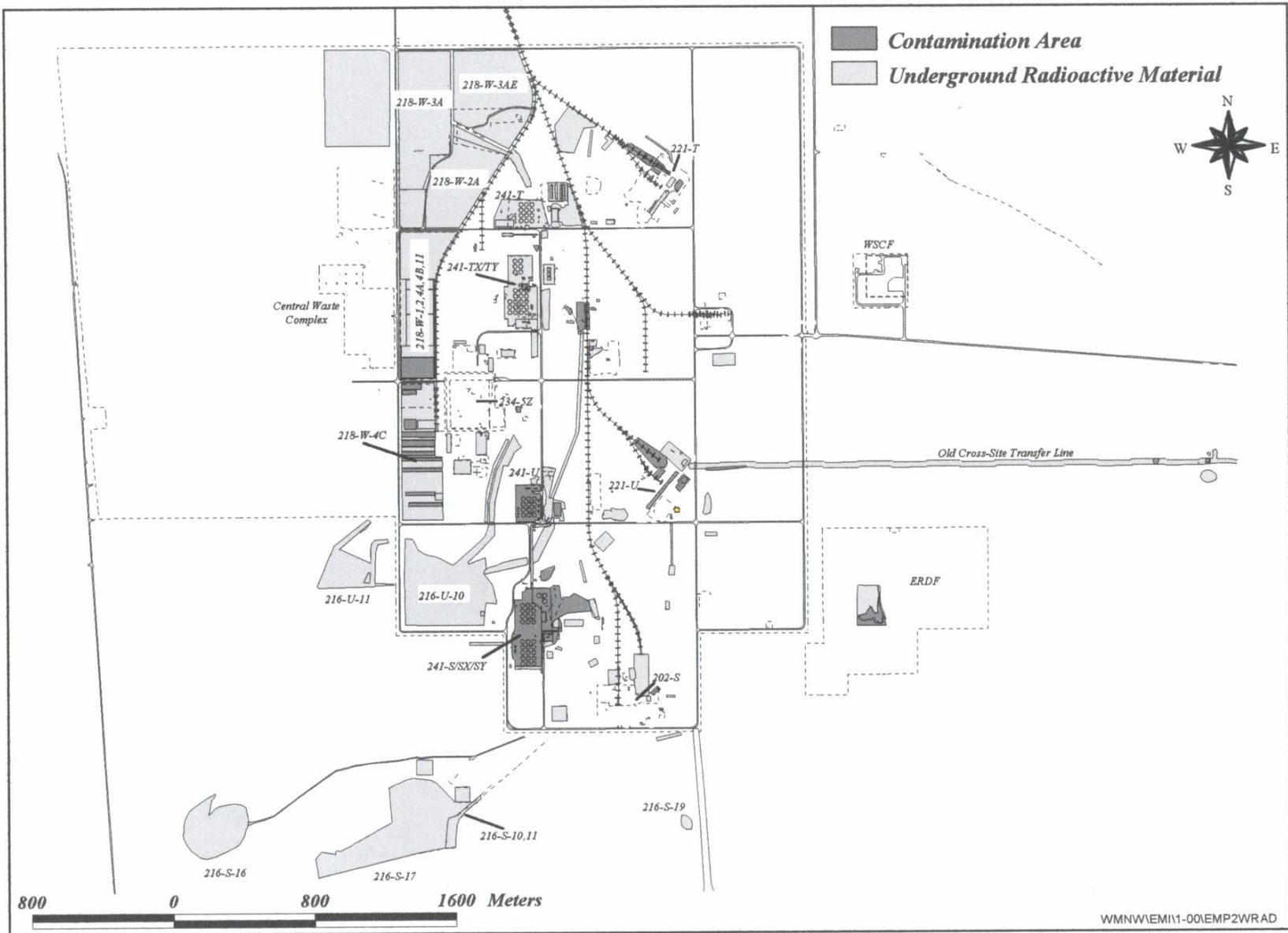


Figure 6-8. 2003 Radiological Survey Locations, 200 West Area.

WMNW1EM11-001EMP2WRAD

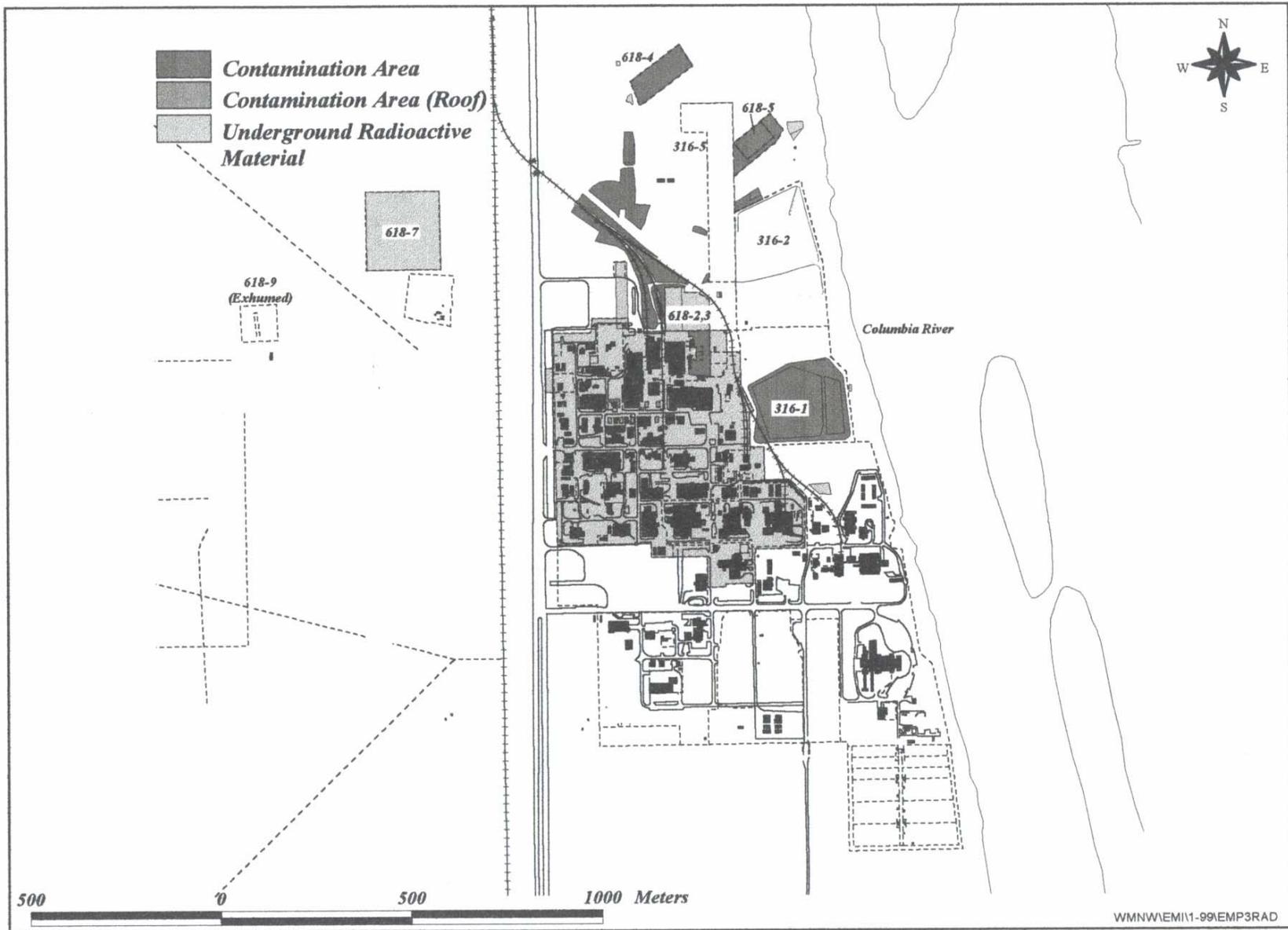


Figure 6-9. 2003 Radiological Survey Locations, 300 Area.

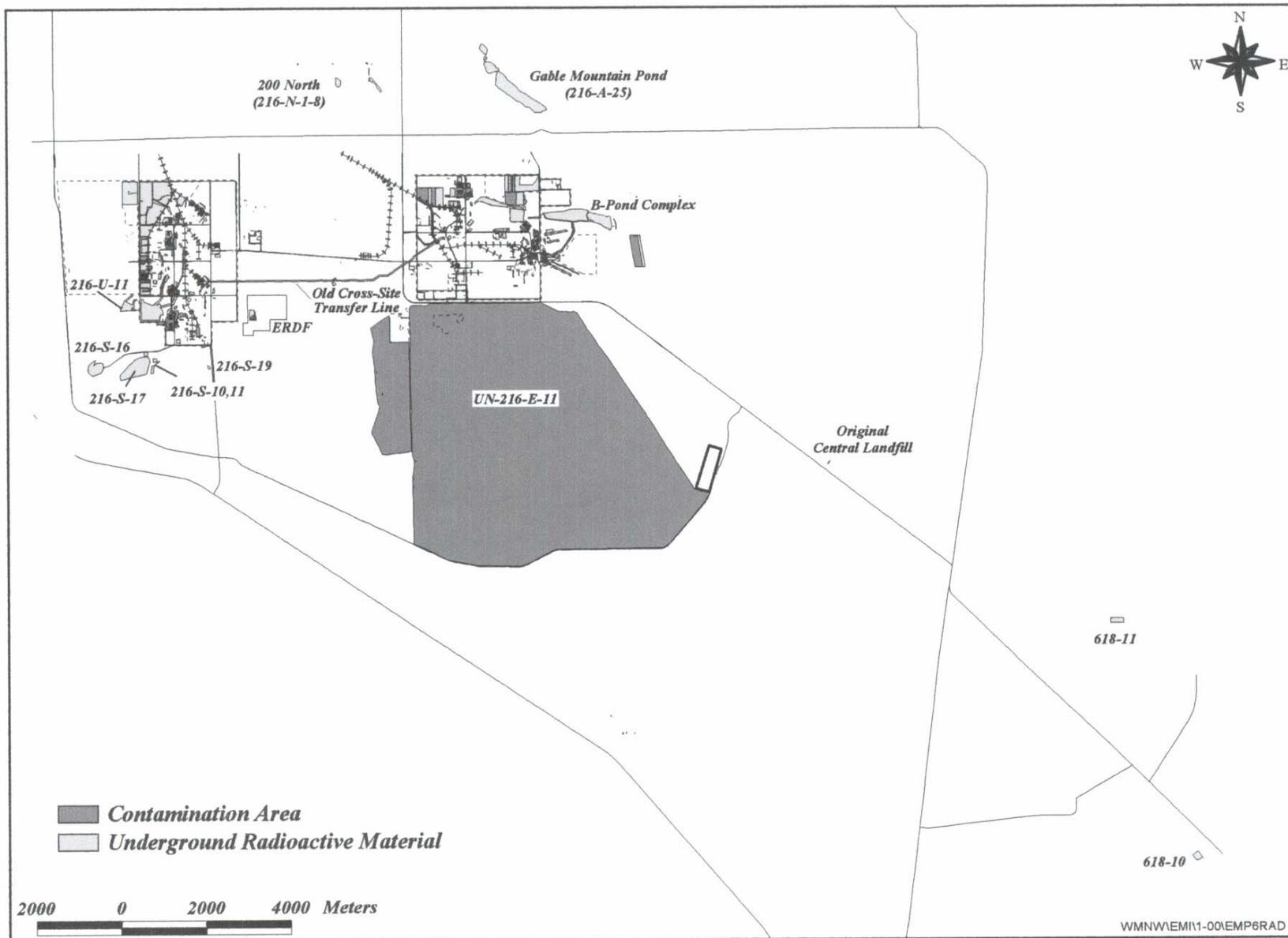


Figure 6-10. 2003 Radiological Survey Locations, 600 Area.

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