

Figure 3.1 ORNL Bethel Valley area facility uses.

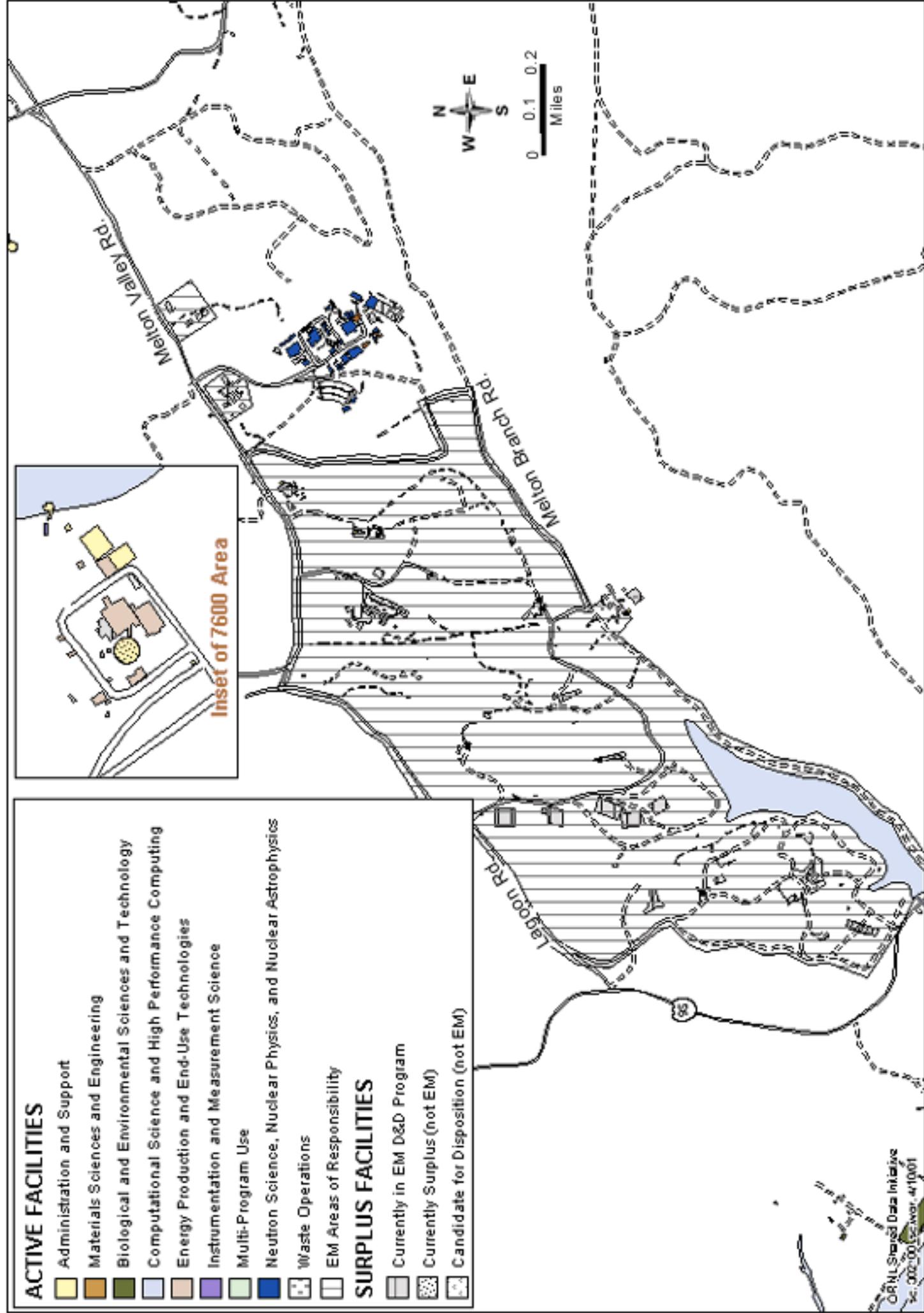


Figure 3.2 ORNL Melton Valley area facility uses.

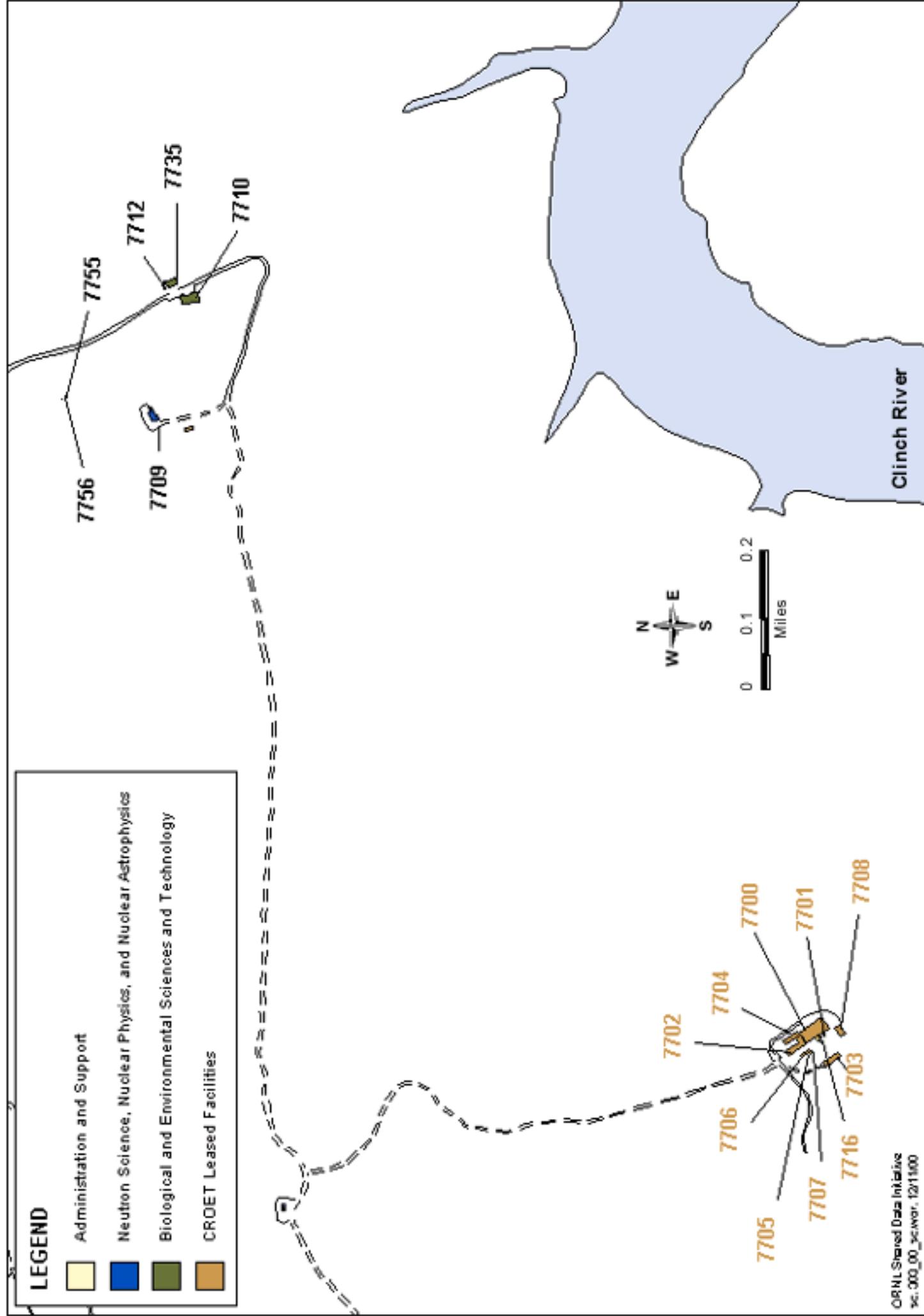


Figure 3.3 ORNL Copper Ridge area facility uses.

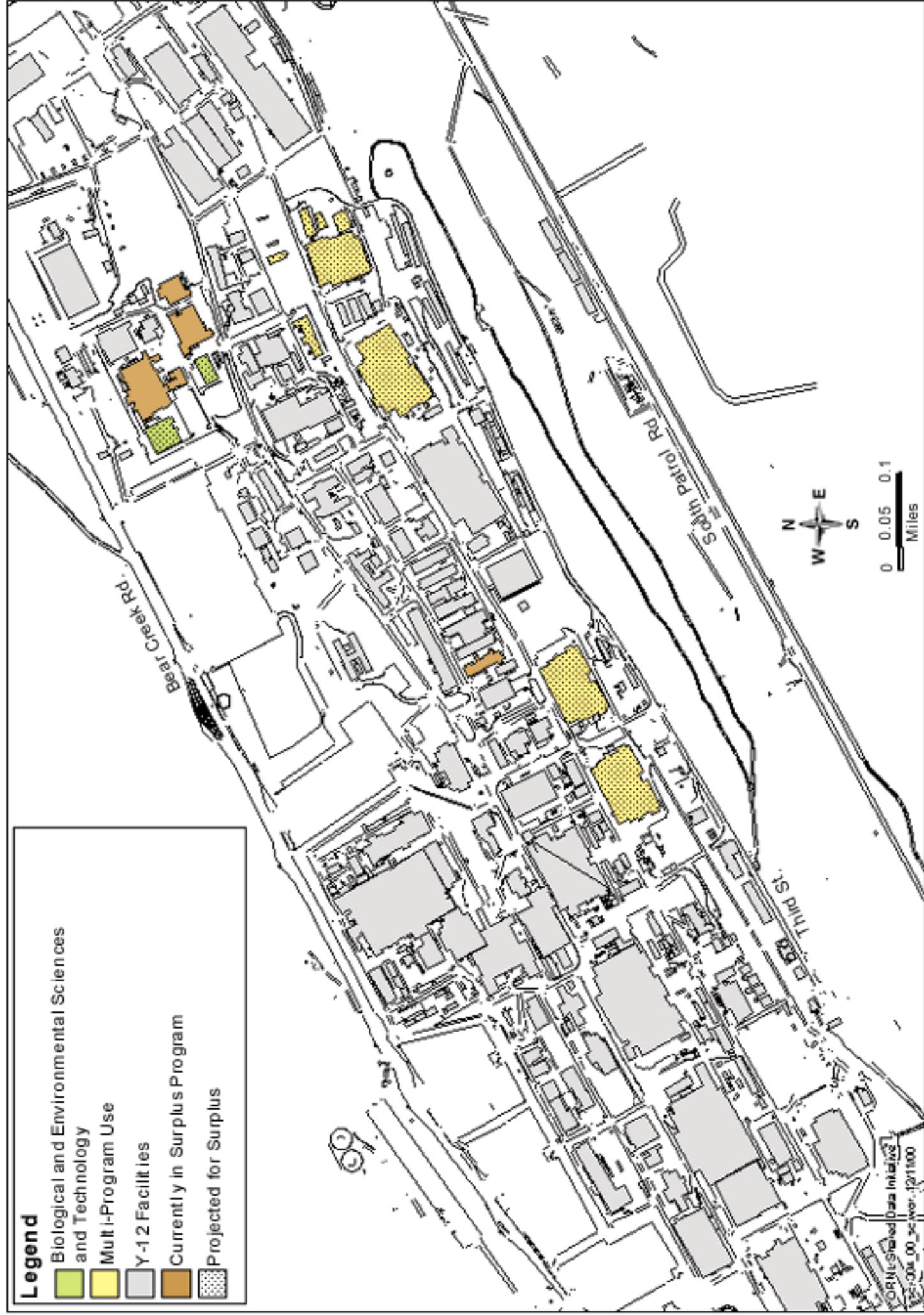


Figure 3.4 ORNL at Y-12 facility uses.

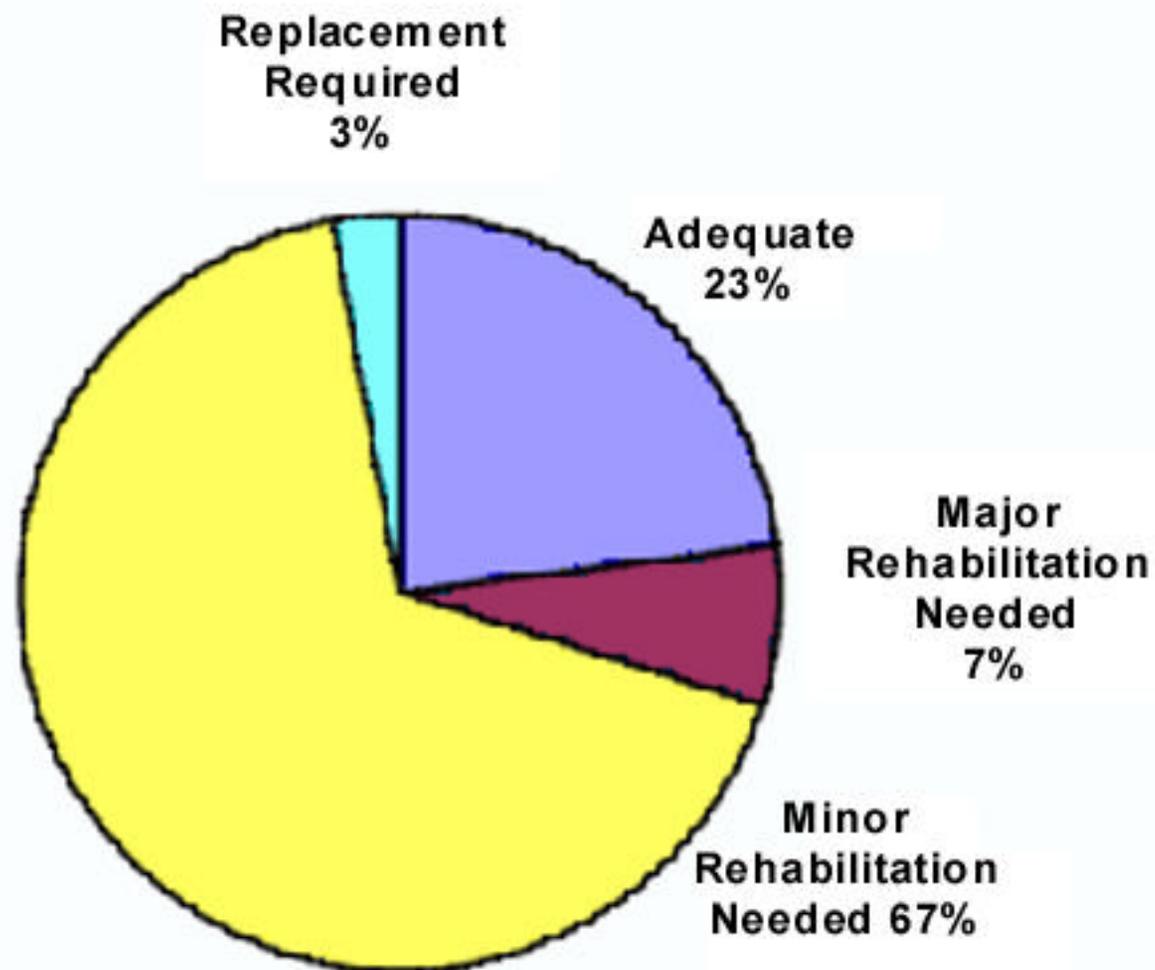


Figure 3.5 Condition of Space at ORNL

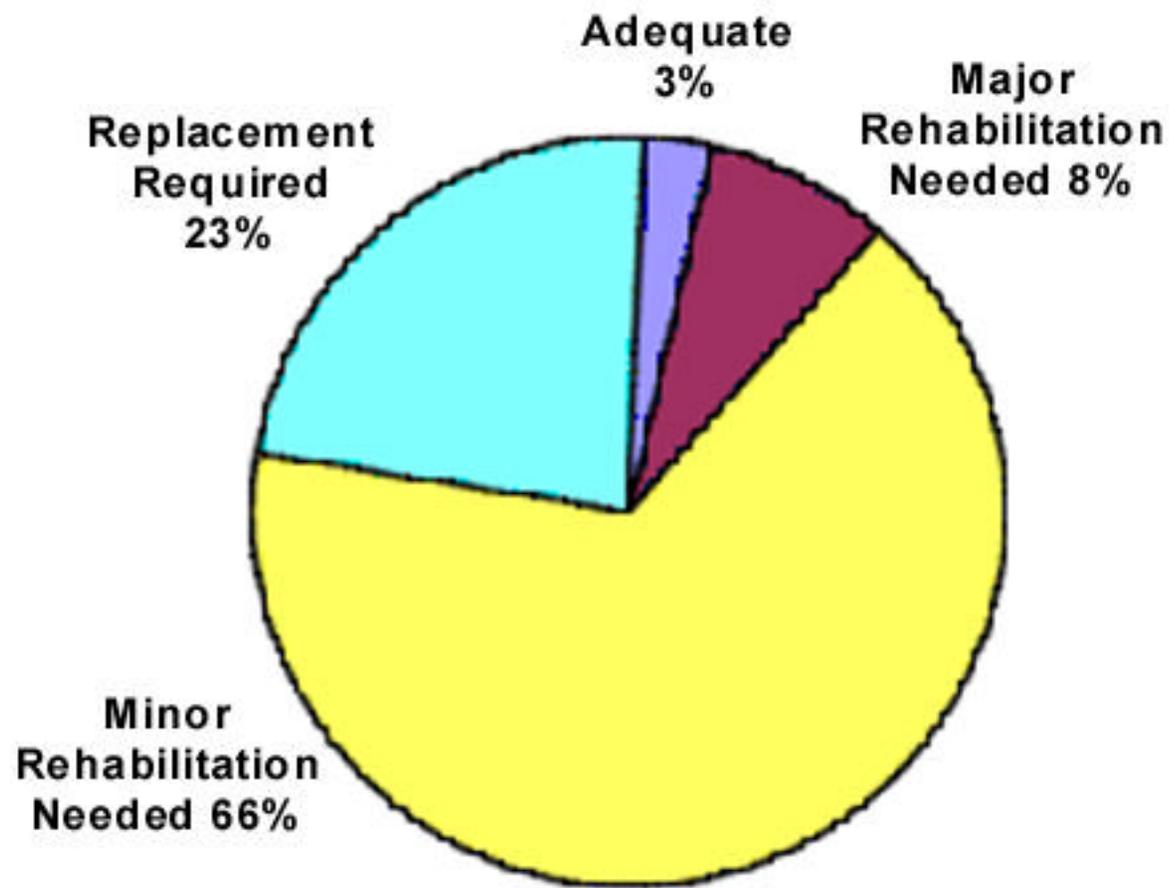


Figure 3.6 Condition of ORNL space at Y-12

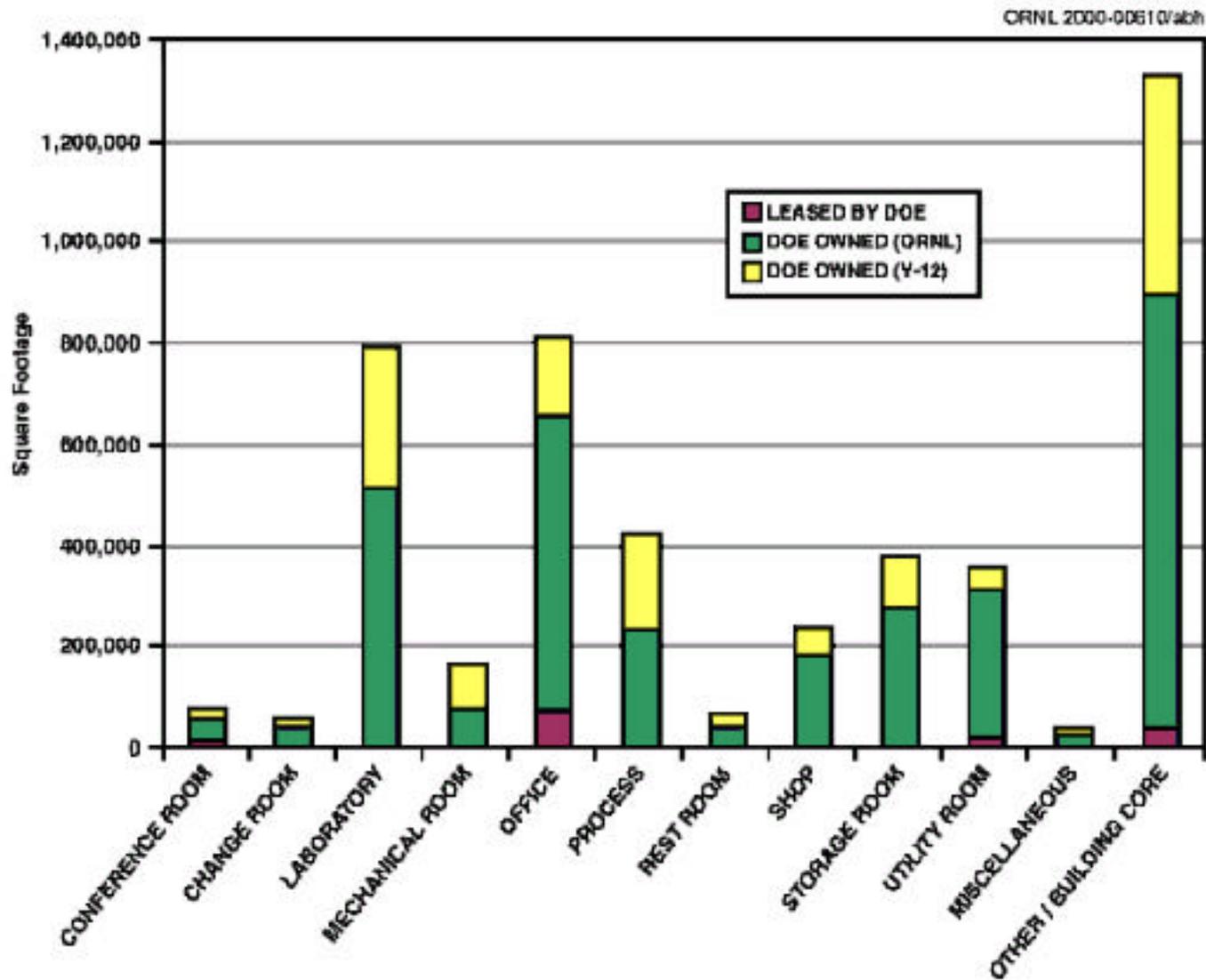


Figure 3.7 Use of ORNL space



**Figure 3.8**  
**Building 2001 (constructed in 1948)**

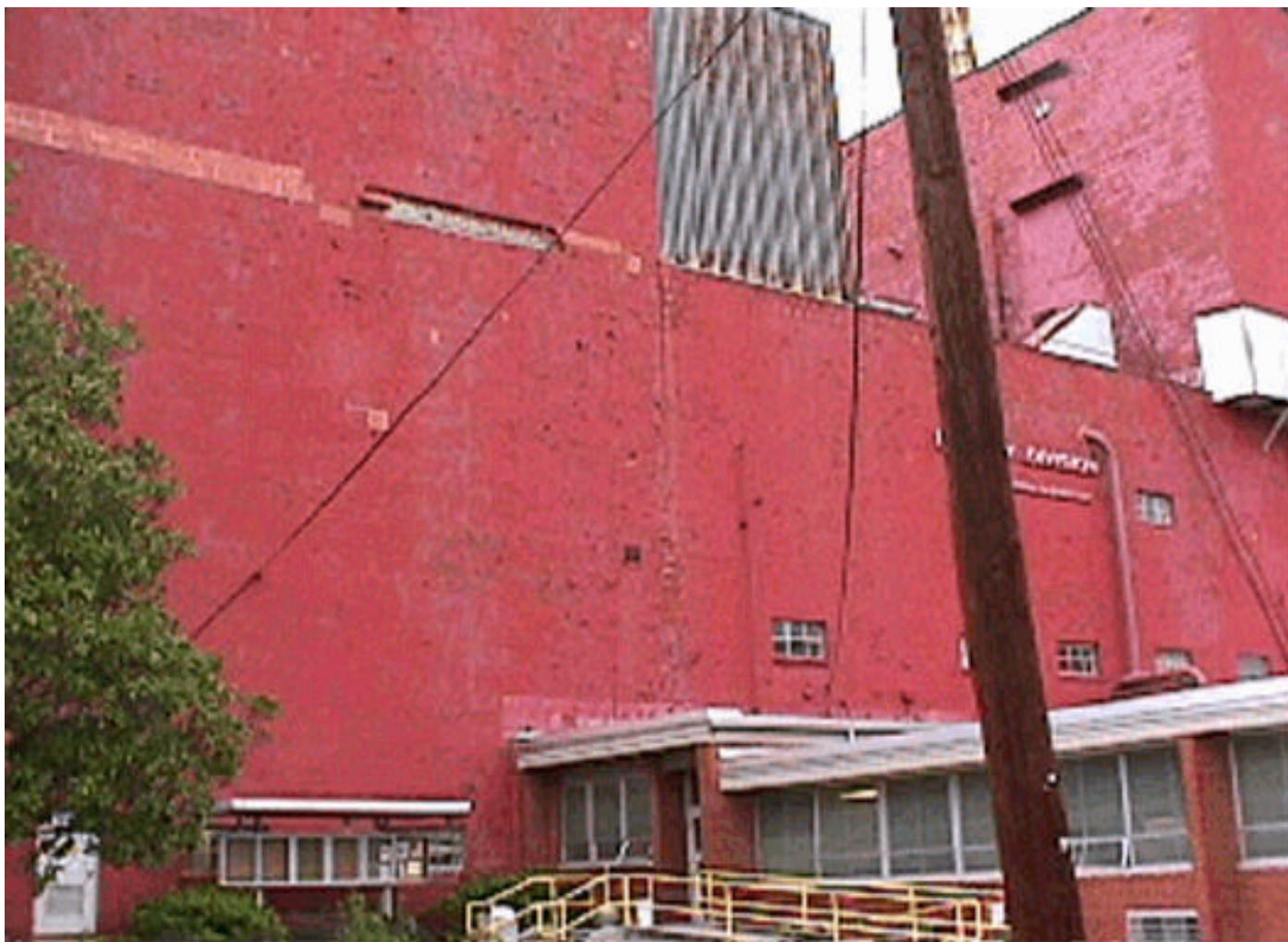


**Figure 3.9**  
**Building 3550 (constructed in 1943)**



**2010 Photo by CAS**

Figure 3.10  
The "new" ORNL Cafeteria (constructed in 1951)



**Figure 3.11**  
**Bricks Falling Off Building 9207 at Y-12**

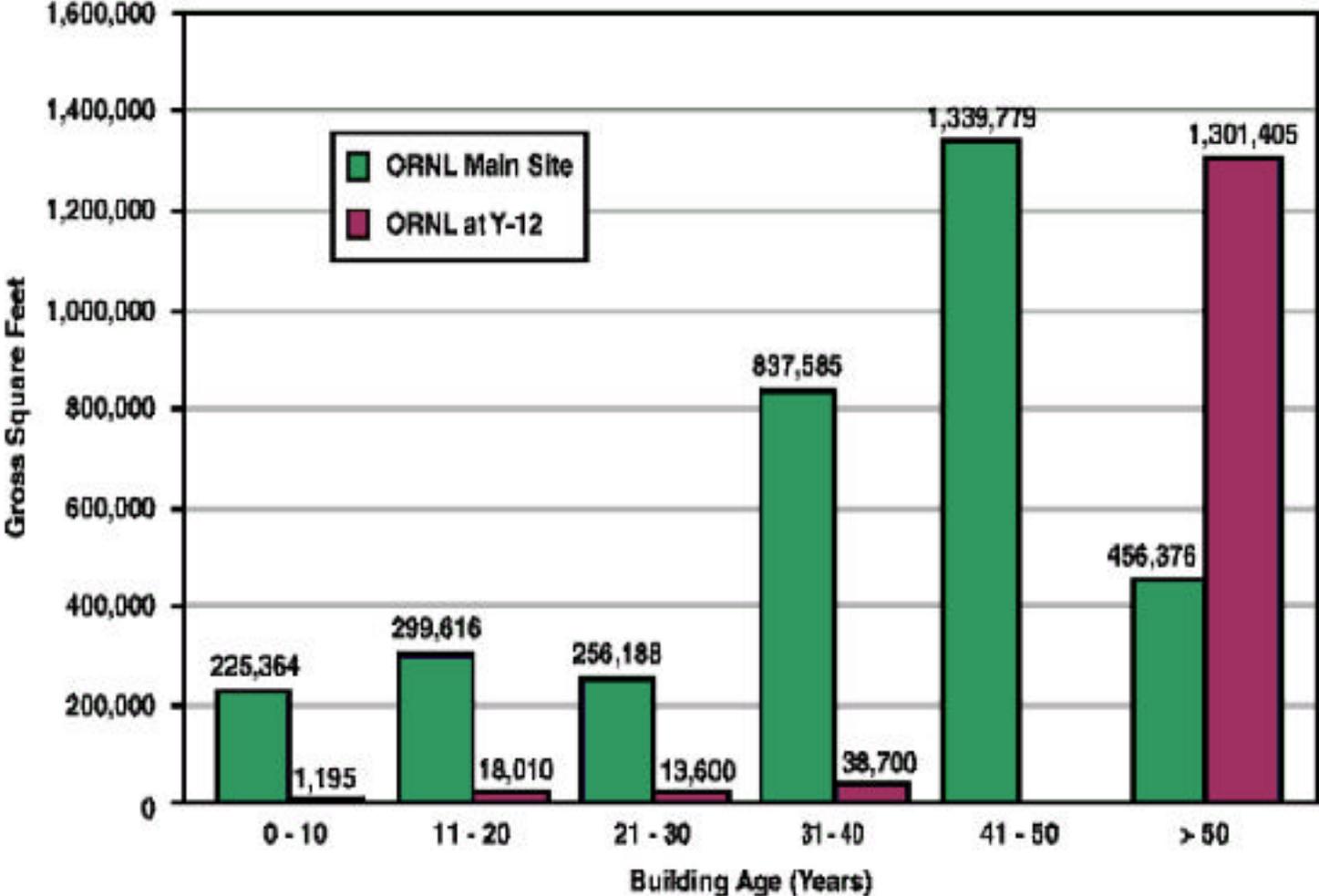


Figure 3.12 Age of ORNL Buildings

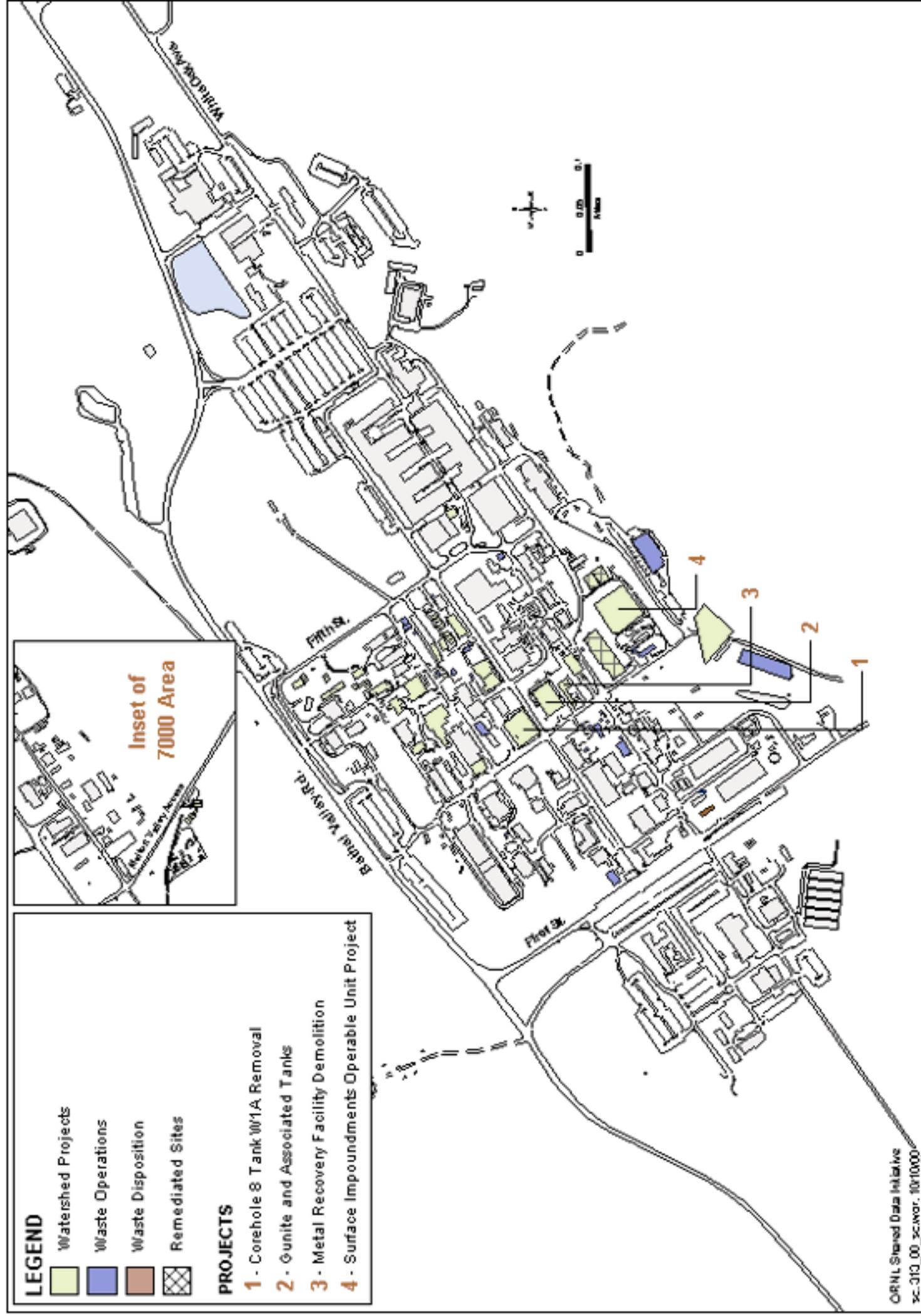


Fig. 3.13. Environmental Management facilities at the ORNL main site, Bethel Valley.

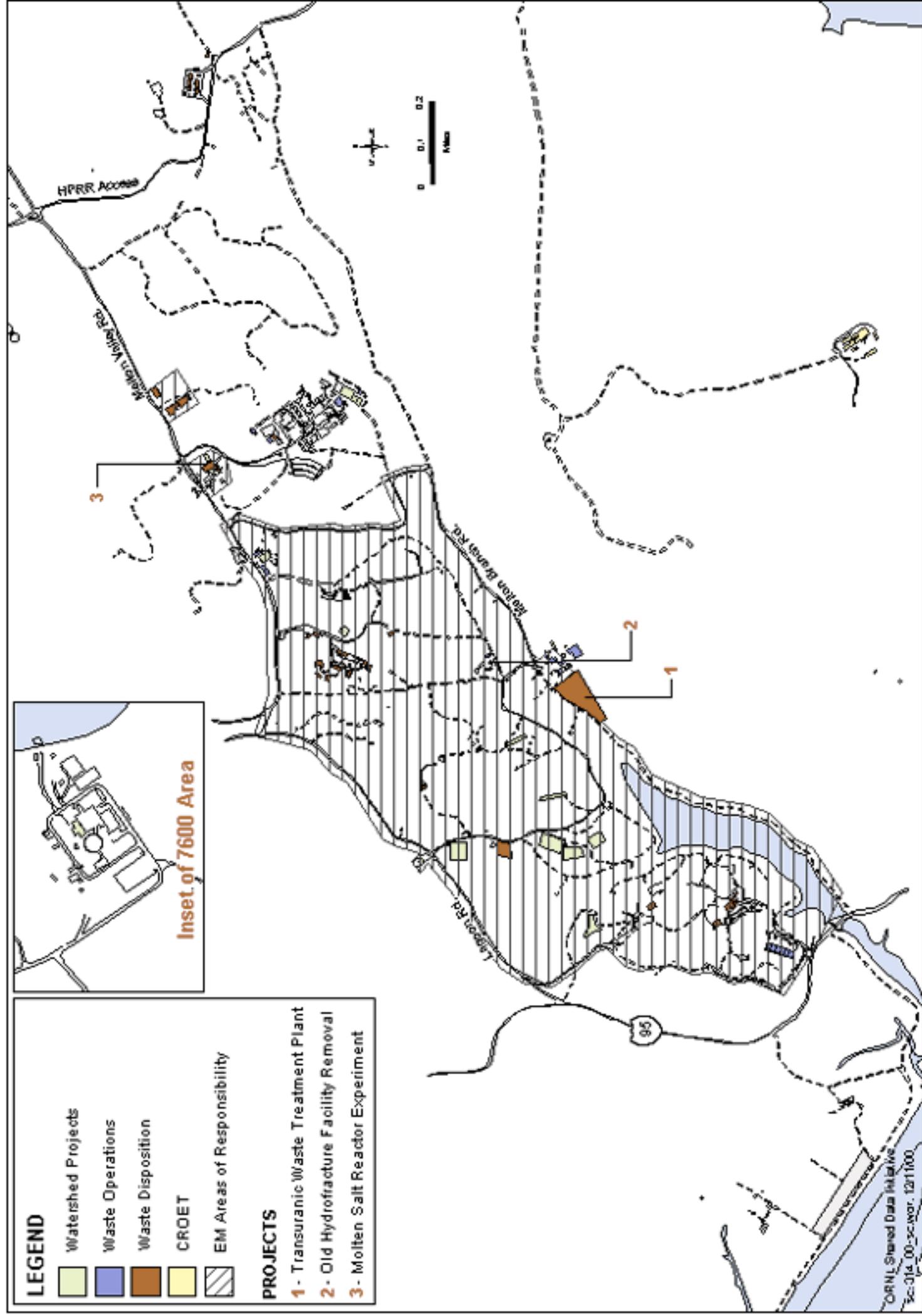


Fig. 3.14. Environmental Management facilities at the ORNL main site, Melton Valley.

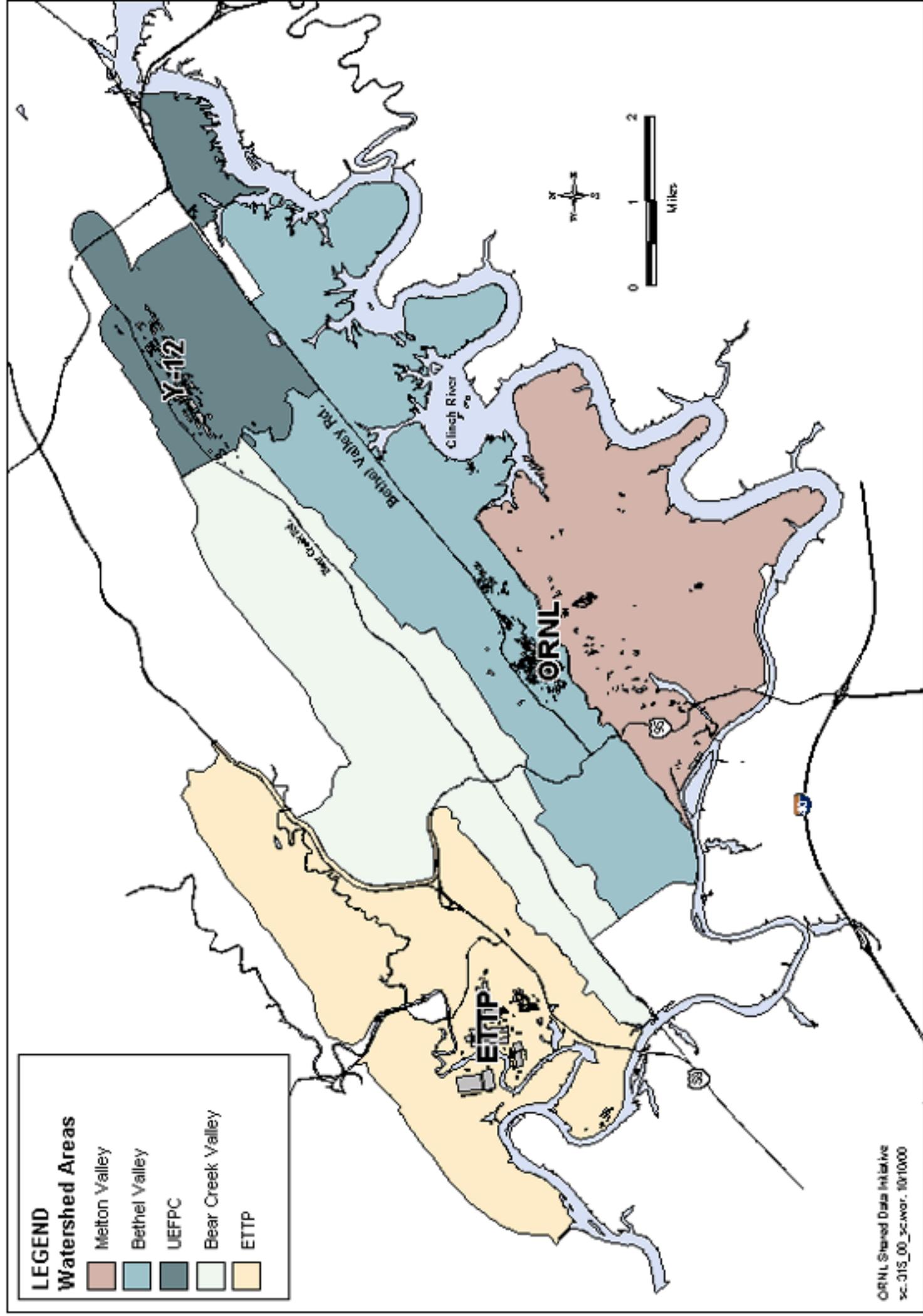


Fig. 3.15. Locations of Environmental Management watersheds areas.



Fig. 3.16. Spallation Neutron Source.

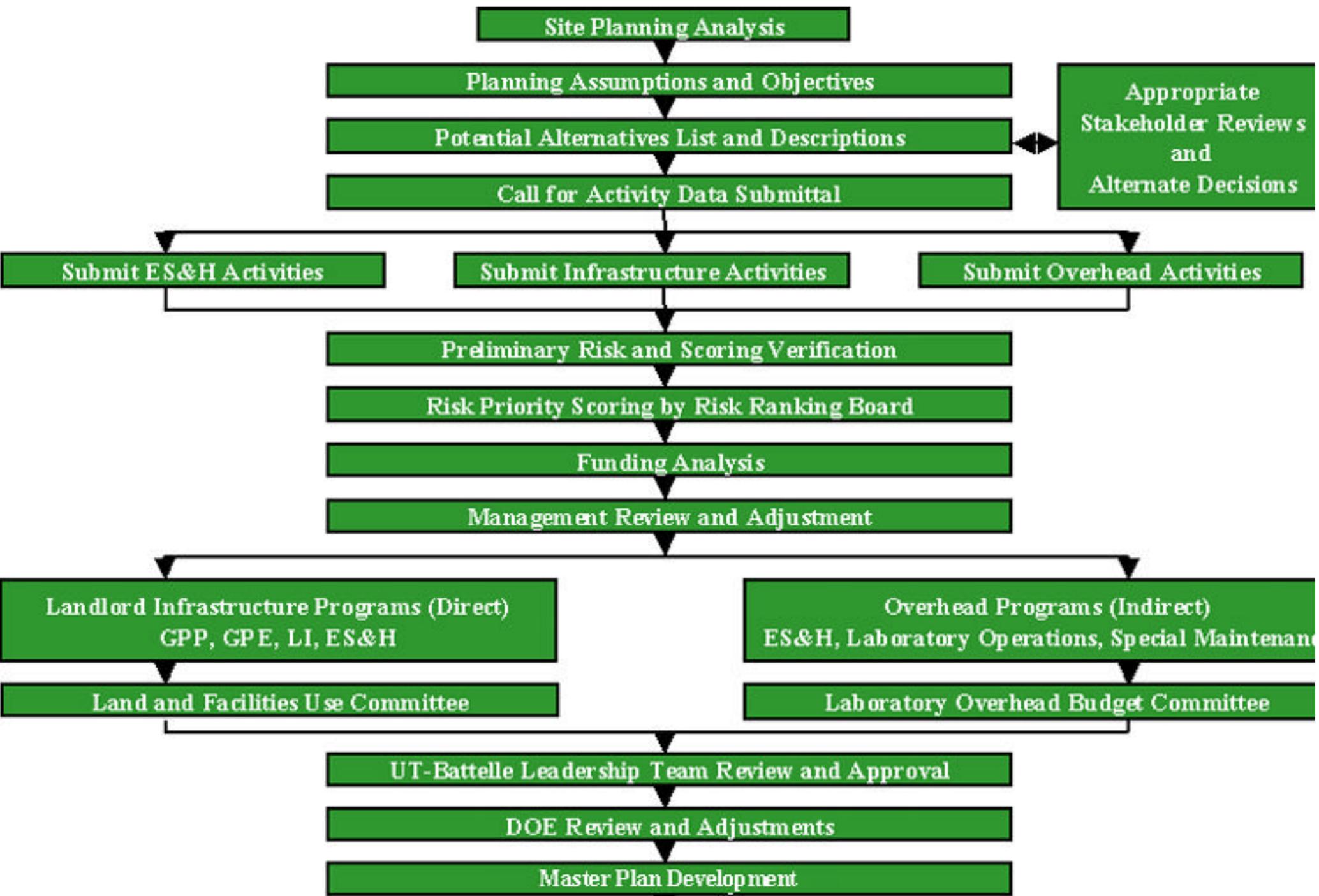


Figure 3.17 ORNL site planning methodology

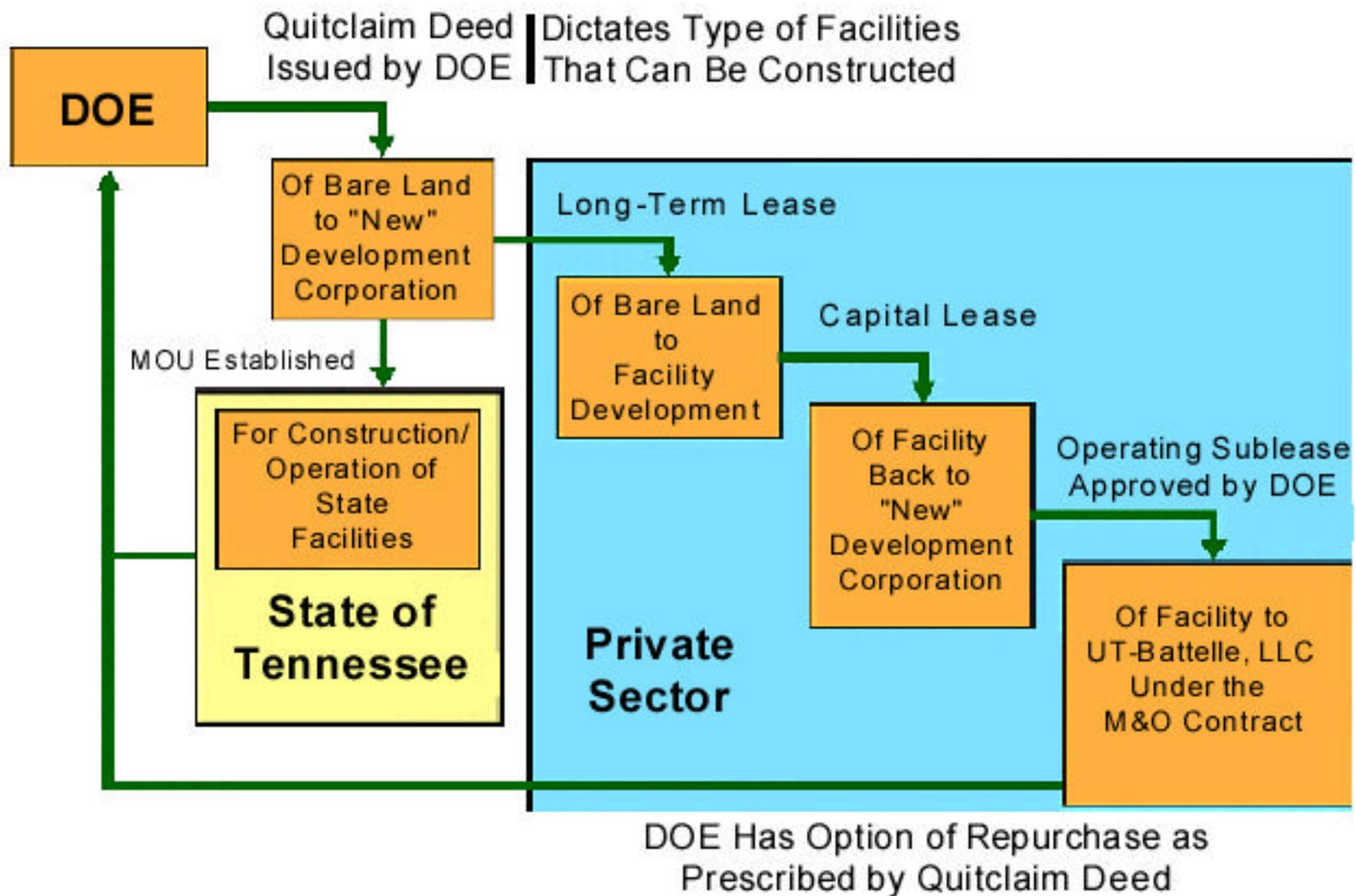


Figure 3.18 Property/facility lease flow diagram

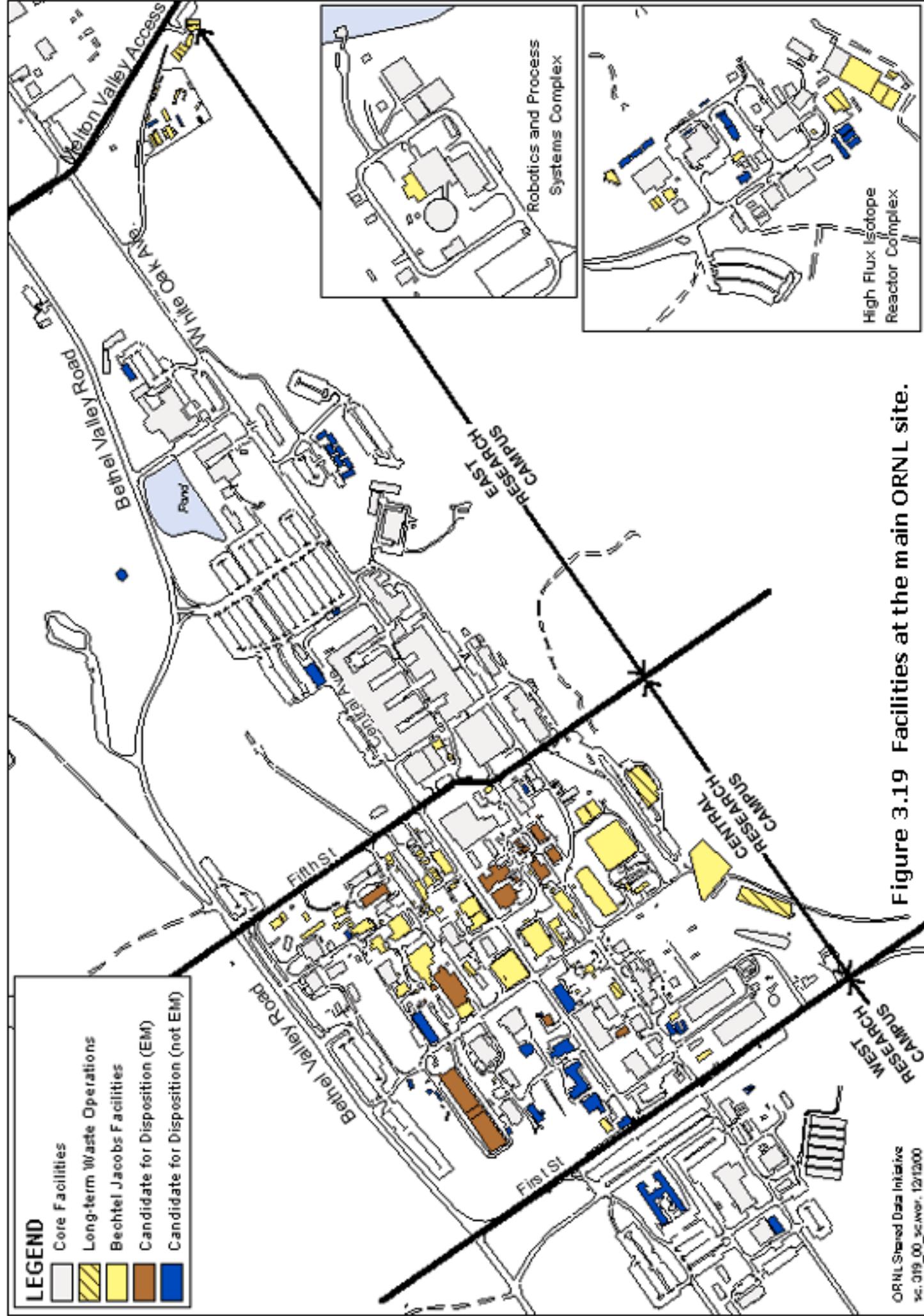


Figure 3.19 Facilities at the main ORNL site.

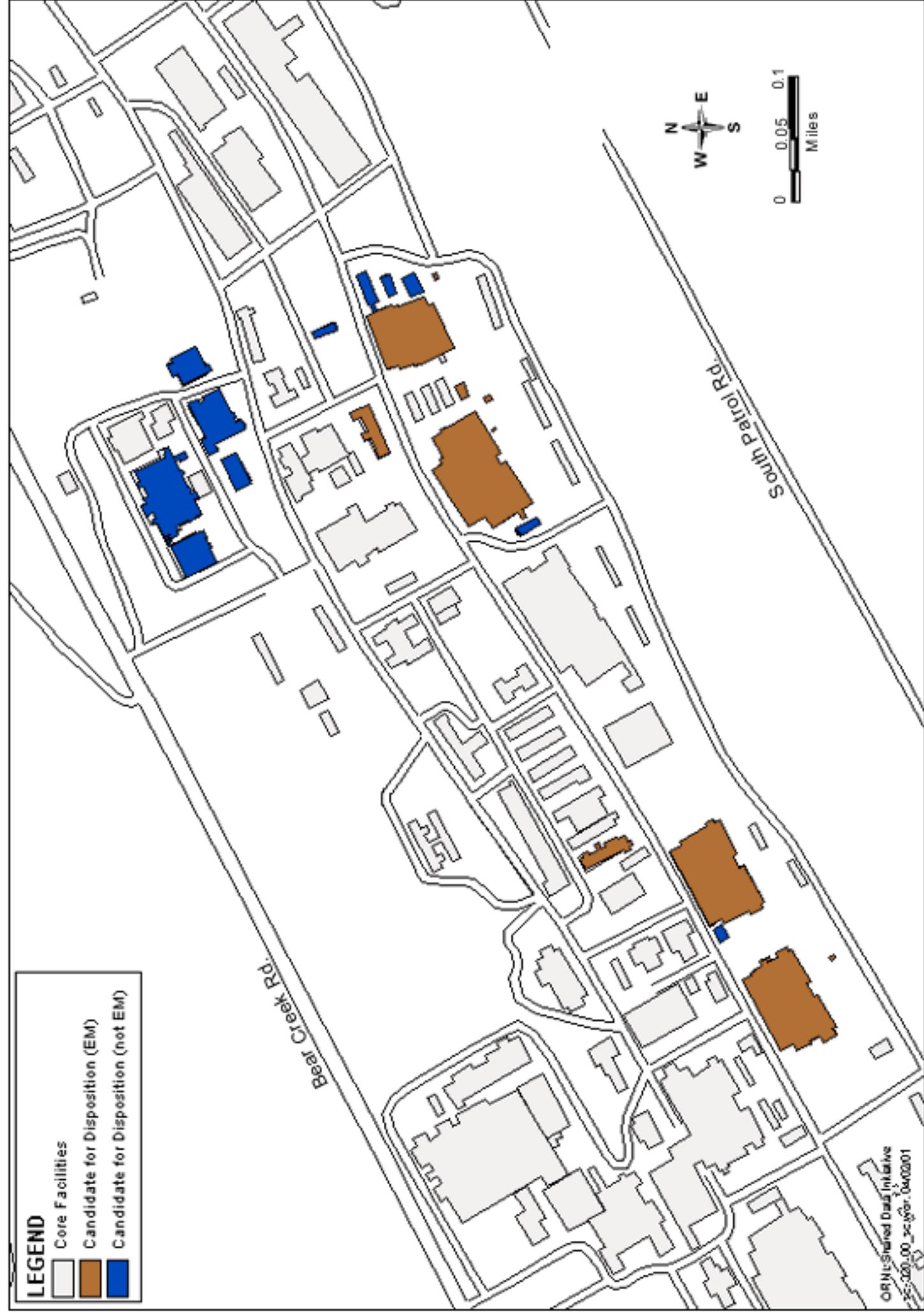


Figure 3.20 ORNL facilities at Y-12.

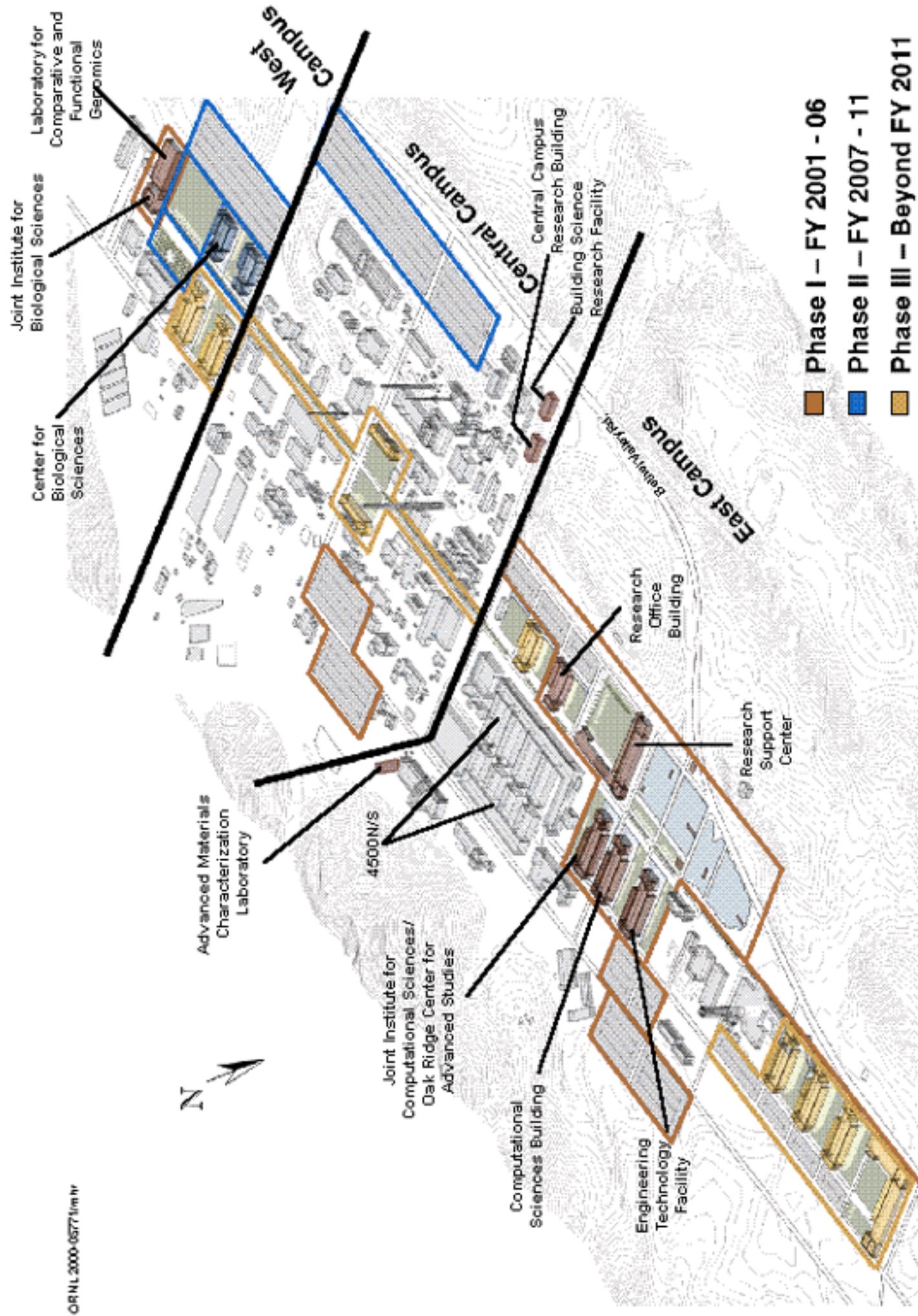


Figure 3.21 ORNL Master Plan for site development.

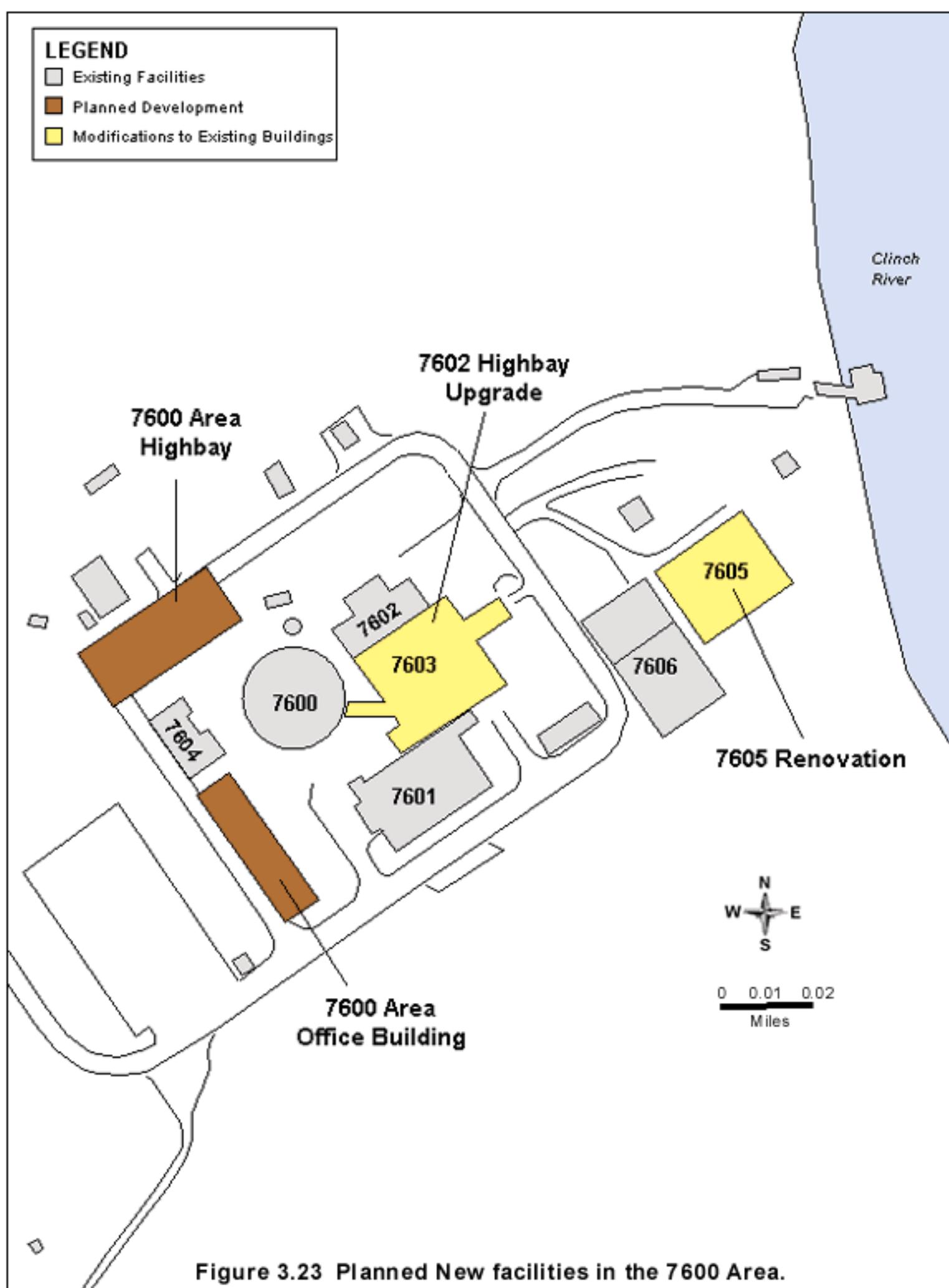


## EAST ELEVATION

Figure 3.22. The Research Support Center at Oak Ridge National Laboratory.

**LEGEND**

-  Existing Facilities
-  Planned Development
-  Modifications to Existing Buildings



**Figure 3.23 Planned New facilities in the 7600 Area.**

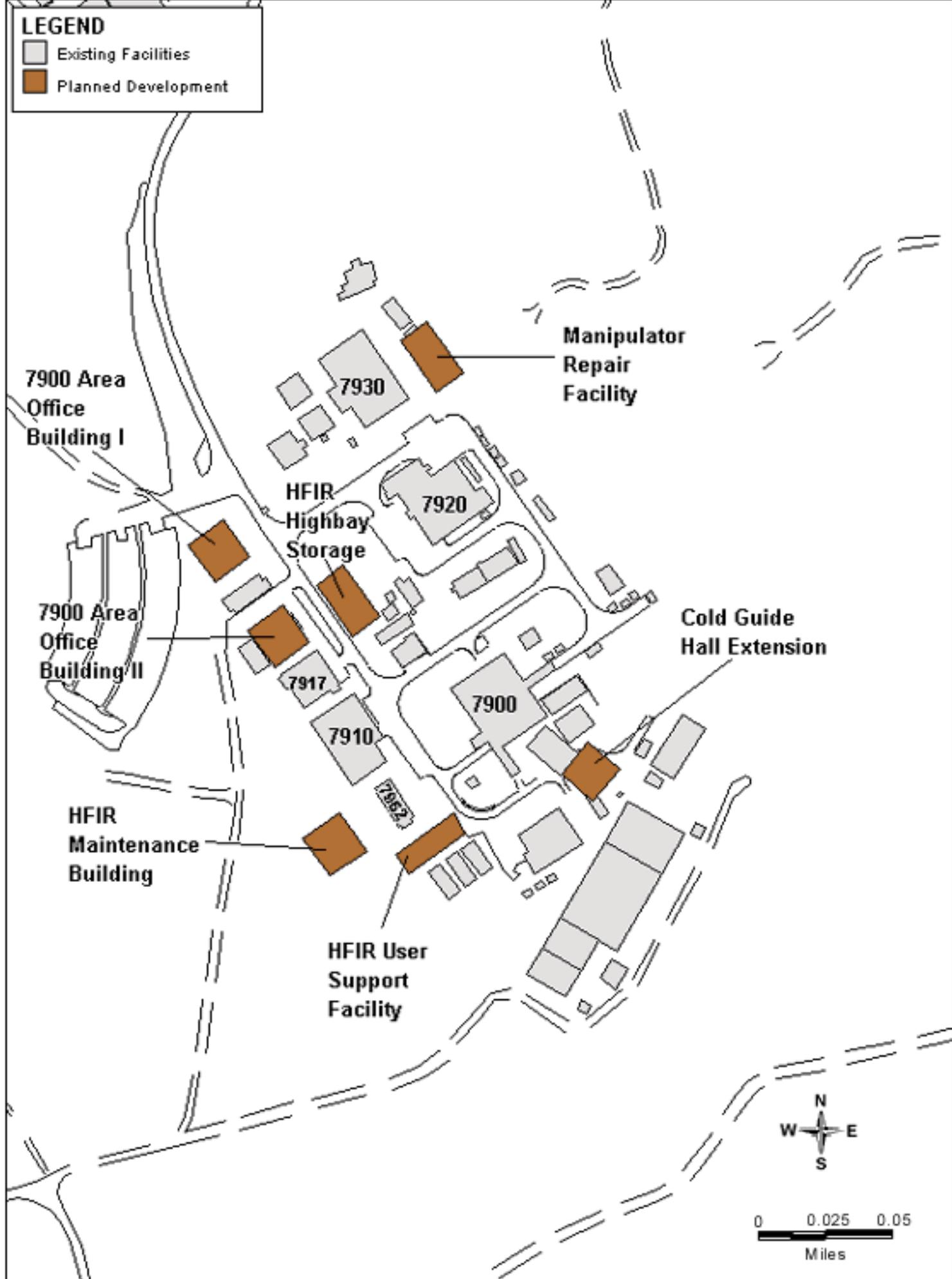
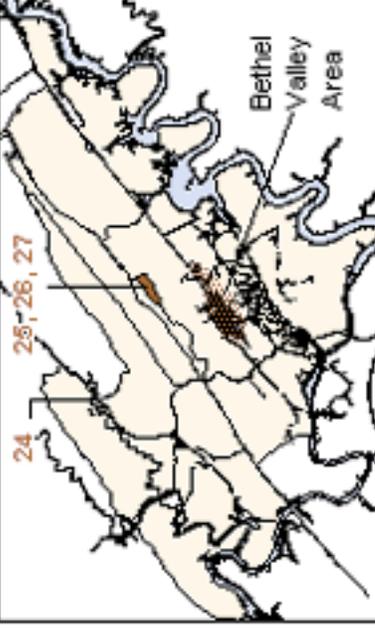


Figure 3.24 Planned new facilities in the 7900 Area.

## KEY

- 1 Water System Upgrade, 1000 Area (GPP)
- 2 Flow Monitoring Stations, First and Fifth Creeks (GPP)
- 3 1506/1503 Greenhouse/Seismic Renovation (GPP)
- 4 Fire Headquarters Renovations (GPP)
- 5 Potable Water System Upgrades (Line Items)
- 6 Steam Plant Upgrades/W5 Boiler Upgrade (GPP), #6 Boiler Standby Generator (GPE), Coal Yard Area Reclamation (GPP)
- 7 Electrical Upgrades (Line Item)
- 8 Primary Substation SF6 Breakers (GPE)
- 9 Primary Substation Upgrades (Line Item)
- 10 Laboratory Facility Ventilation System Upgrades (Line Item)
- 11 Nanoscience Metrology and Instrumentation Lab (GPP)
- 12 Dry Chemical Processing Station (GPE)
- 13 New 1.5-Million-Gallon Water Reservoir (GPP)
- 14 4500-S Basement Renovation (GPP)
- 15 4509 Maintenance Shop Addition (GPP)
- 16 HVAC Upgrades (Line Item)
- 17 4511 Cooling Tower Replacement (GPP)
- 18 Open Campus Improvements (GPE)
- 19 5500 Renovation for ES & H Functions (GPP)
- 20 Natural Gas System Restoration (GPP)
- 21 Bethel Valley Rd. Improvements (GPP)
- 22 6010/6025 Renovations (GPP)
- 23 Transportation and Packaging Management Facility (GPP)
- 24 Lambert Quarry Signage and Fencing (GPP)
- 25 Spallation Neutron Source (Line Item)
- 26 Joint Institute for Neutron Sciences (State)
- 27 Center for Nanophase Materials Science (Line Item)
- 28 Fire Protection Upgrades (GPP and Line Item)
- 29 Computer Systems Upgrades - Internet Fire Wall (GPP), Data Network Layer 2 Upgrades (GPE), New External Web Server (GPE)



## LEGEND

- Existing Facilities
- Planned Development
- Modifications to Existing Buildings
- Facilities Revitalization Project Development

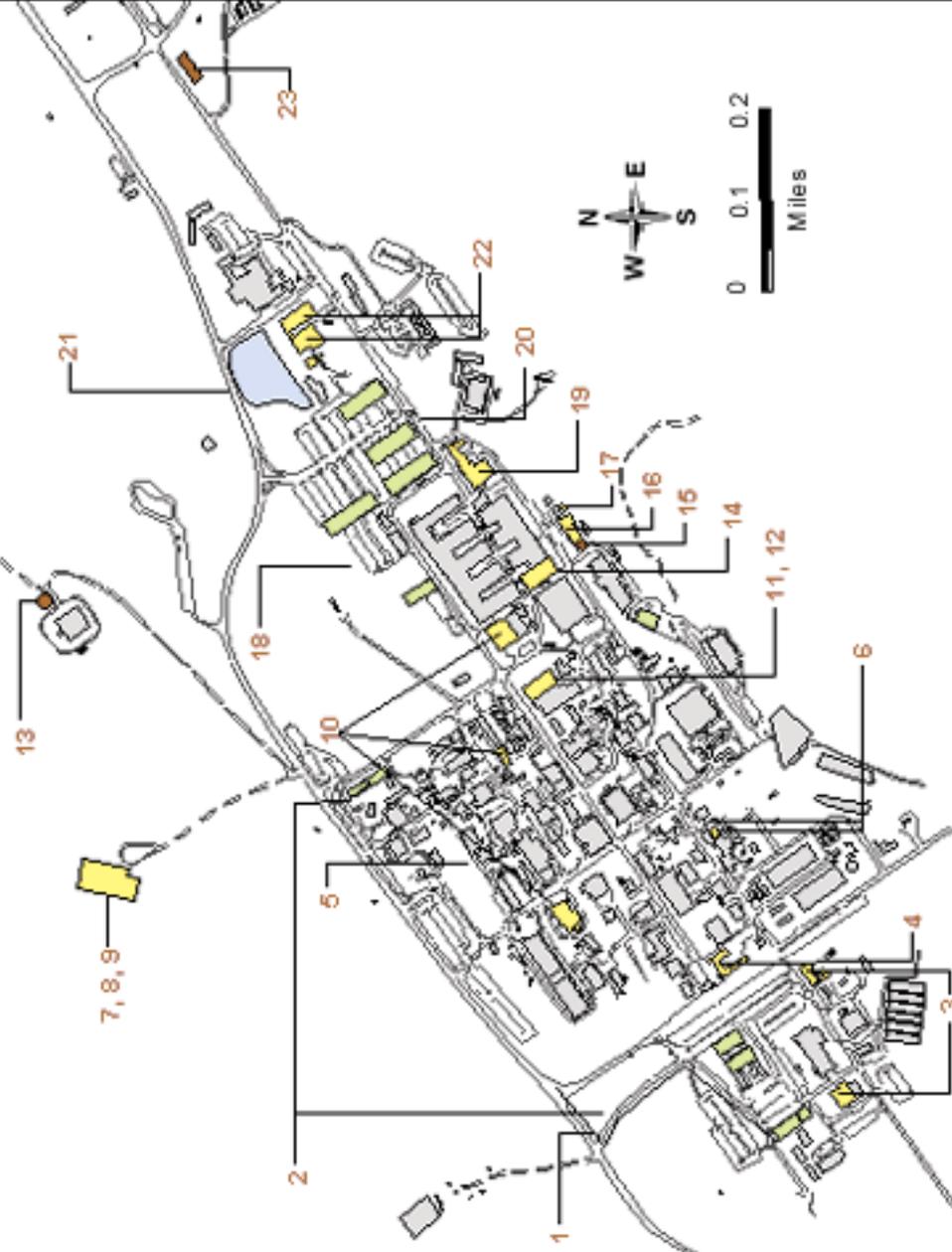


Figure 3.25 ORNL general-purpose projects for Bethel Valley, Phase I, FY 2001-06.

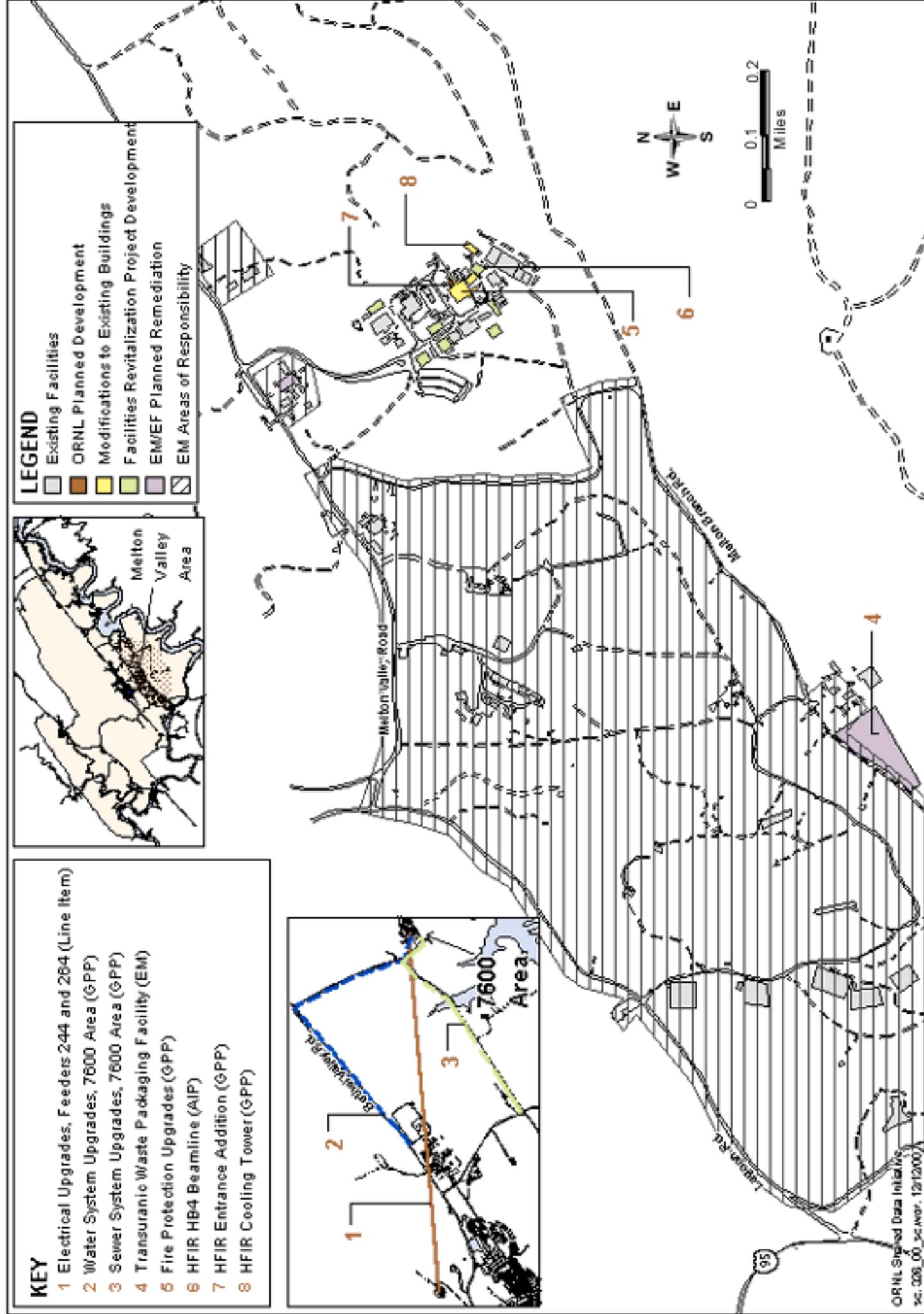
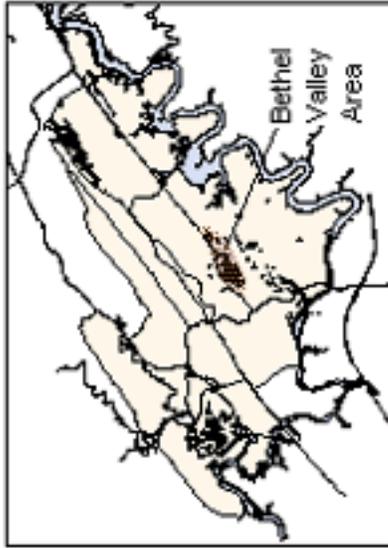


Figure 3.26 ORNL general-purpose projects for Melton Valley, Phase I, FY 2001-06.

### KEY

- 1 Roads and Parking Lot Paving (GPP)
- 2 Whole Body Counting and TLD Laboratory Building (GPP)
- 3 Steam Plant Upgrades/ West End Steam Upgrades Completion (GPP), Upgrade Steam Condensate Removal System (GPP), Replace East End Water Softeners (GPP)
- 4 Upgrade Building Electrical Systems; 3000, 6000, and 7000 Areas (GPP)
- 5 Elevator Upgrades (GPE)
- 6 Technical Support Building Addition, 4512 (GPP)
- 7 Addition to Building 6012 (GPP)
- 8 Extend 7000 Area Water Main (GPP)
- 9 Sanitary Waste Transfer Station (GPP)
- 10 Heavy Equipment Shed (GPP)
- 11 Auxilliary System Upgrades (GPP)
- 12 Install Water Meters (GPP)



### LEGEND

- Existing Facilities
- Planned Development
- Modifications to Existing Buildings
- Facilities Revitalization Project Development



Figure 3.27 ORNL general-purpose projects for Bethel Valley, Phase II, FY 2007-11.

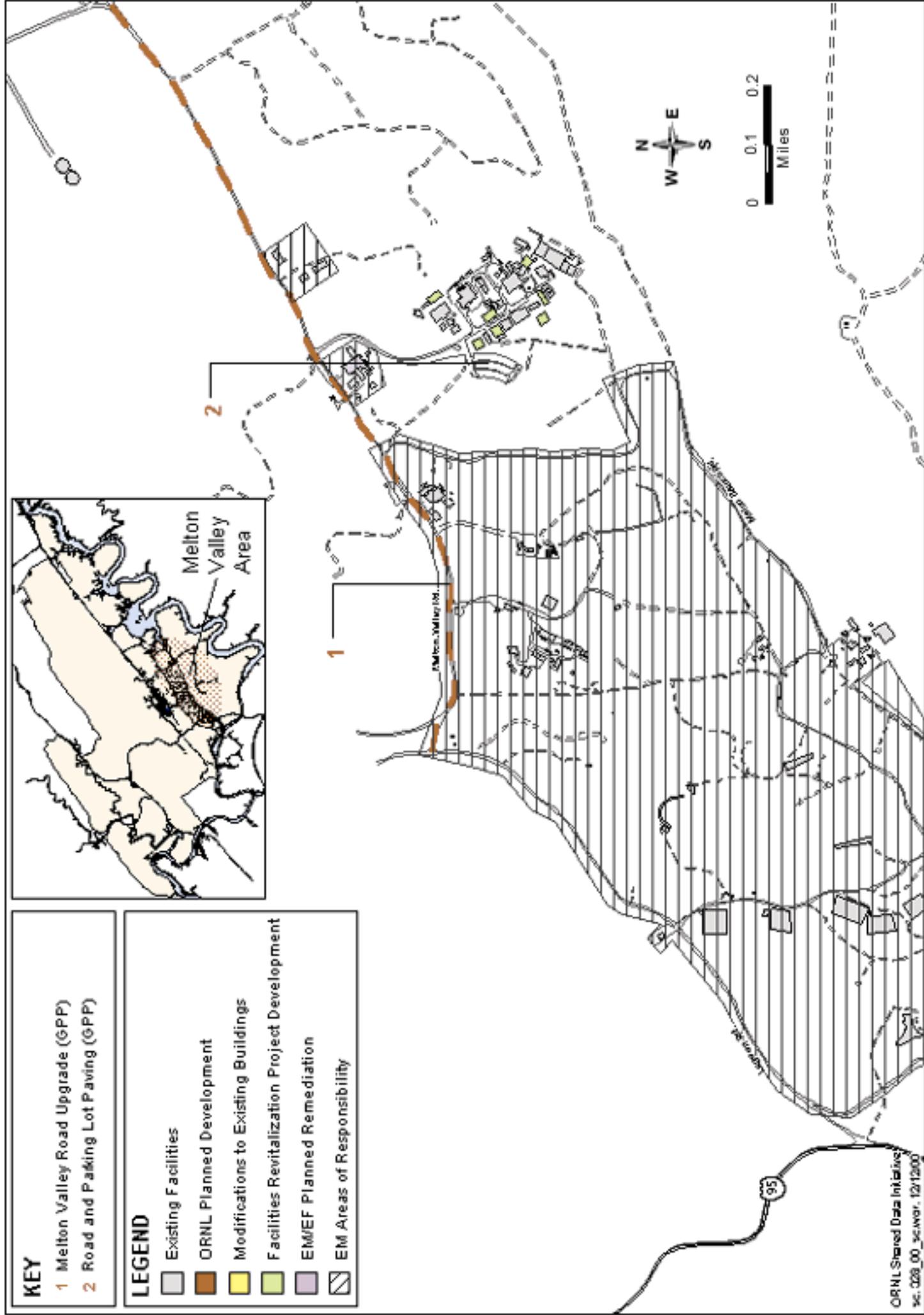


Figure 3.28 ORNL general-purpose projects for Melton Valley, Phase II, FY 2007-11.

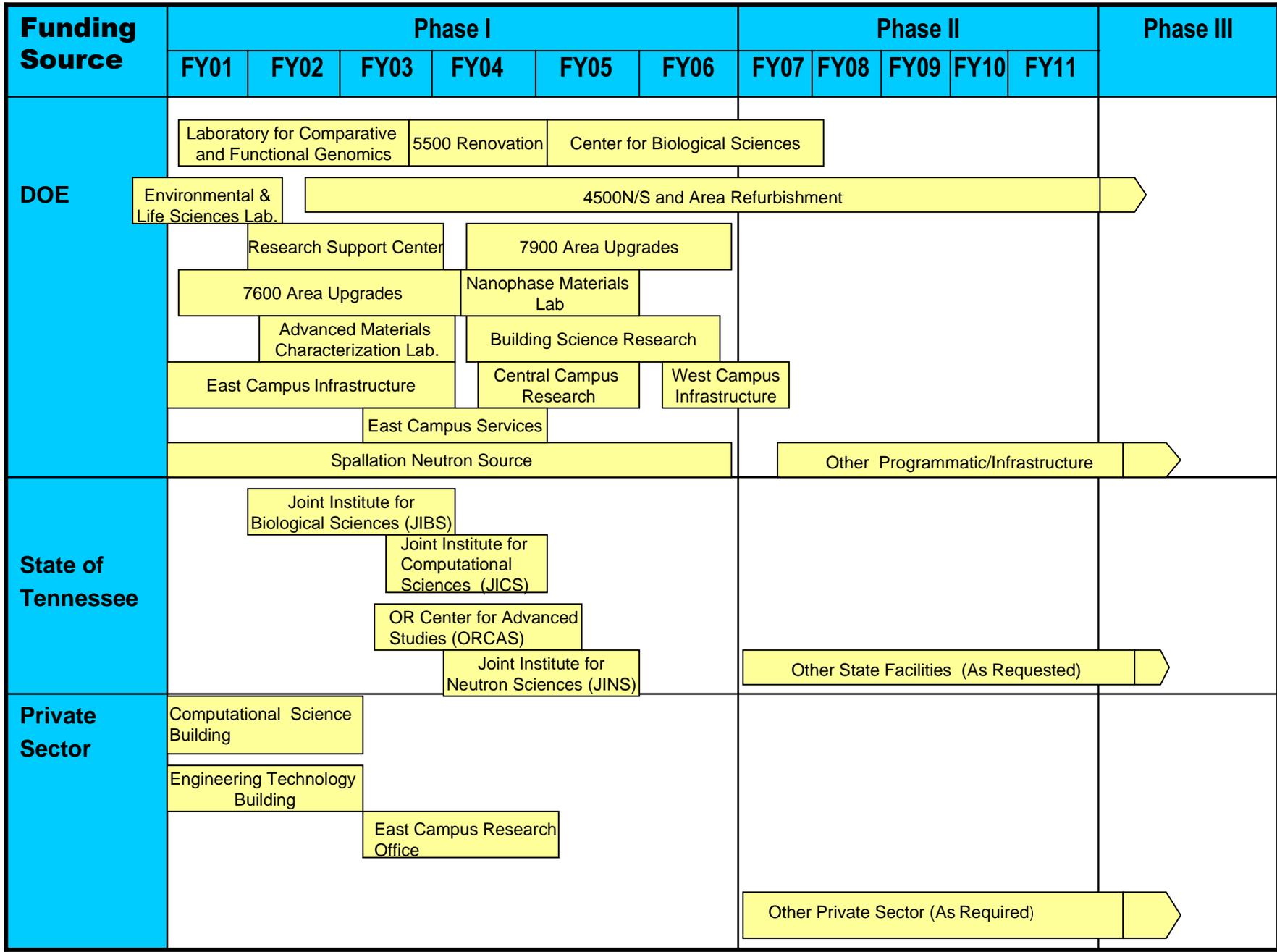
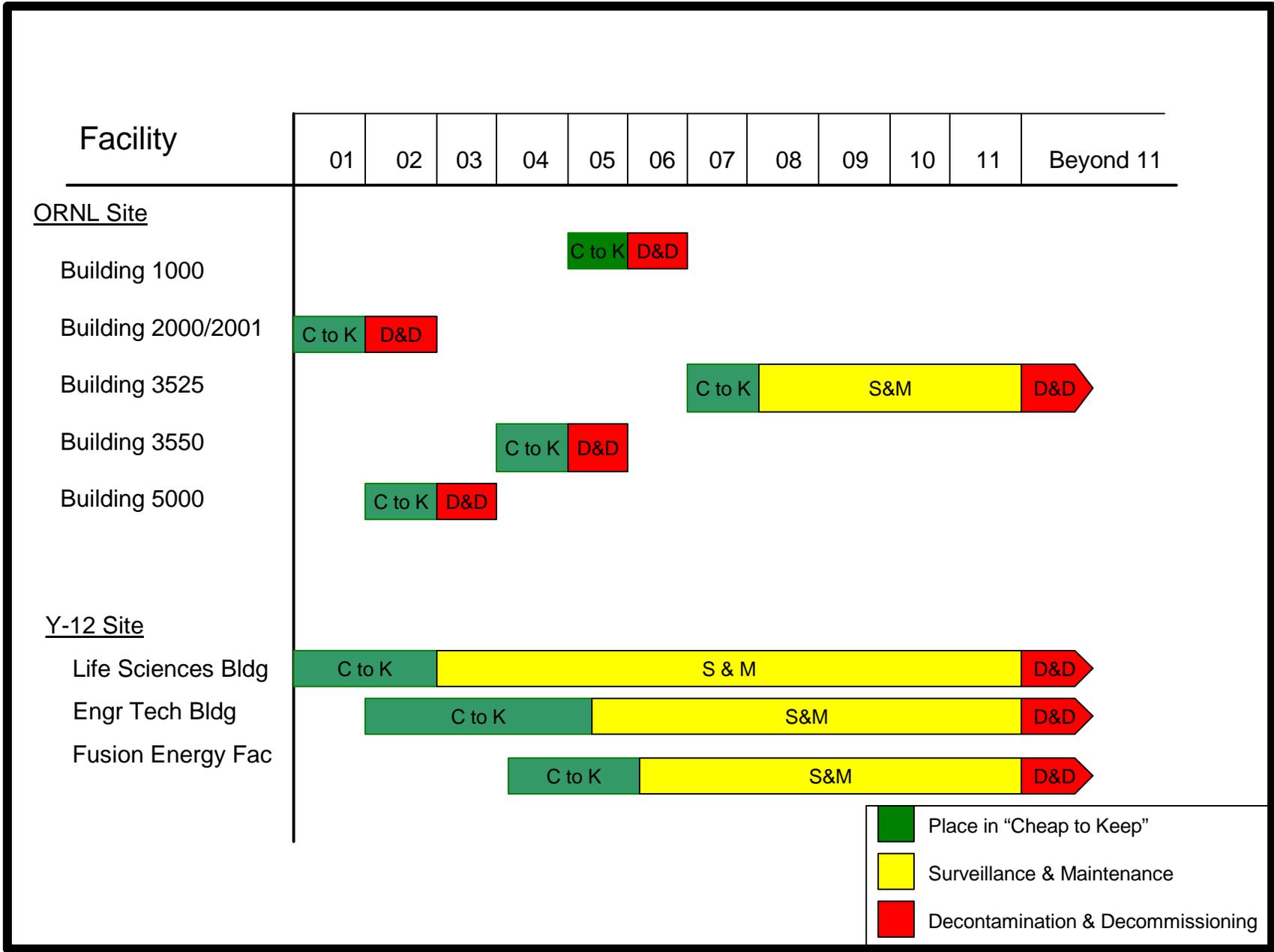
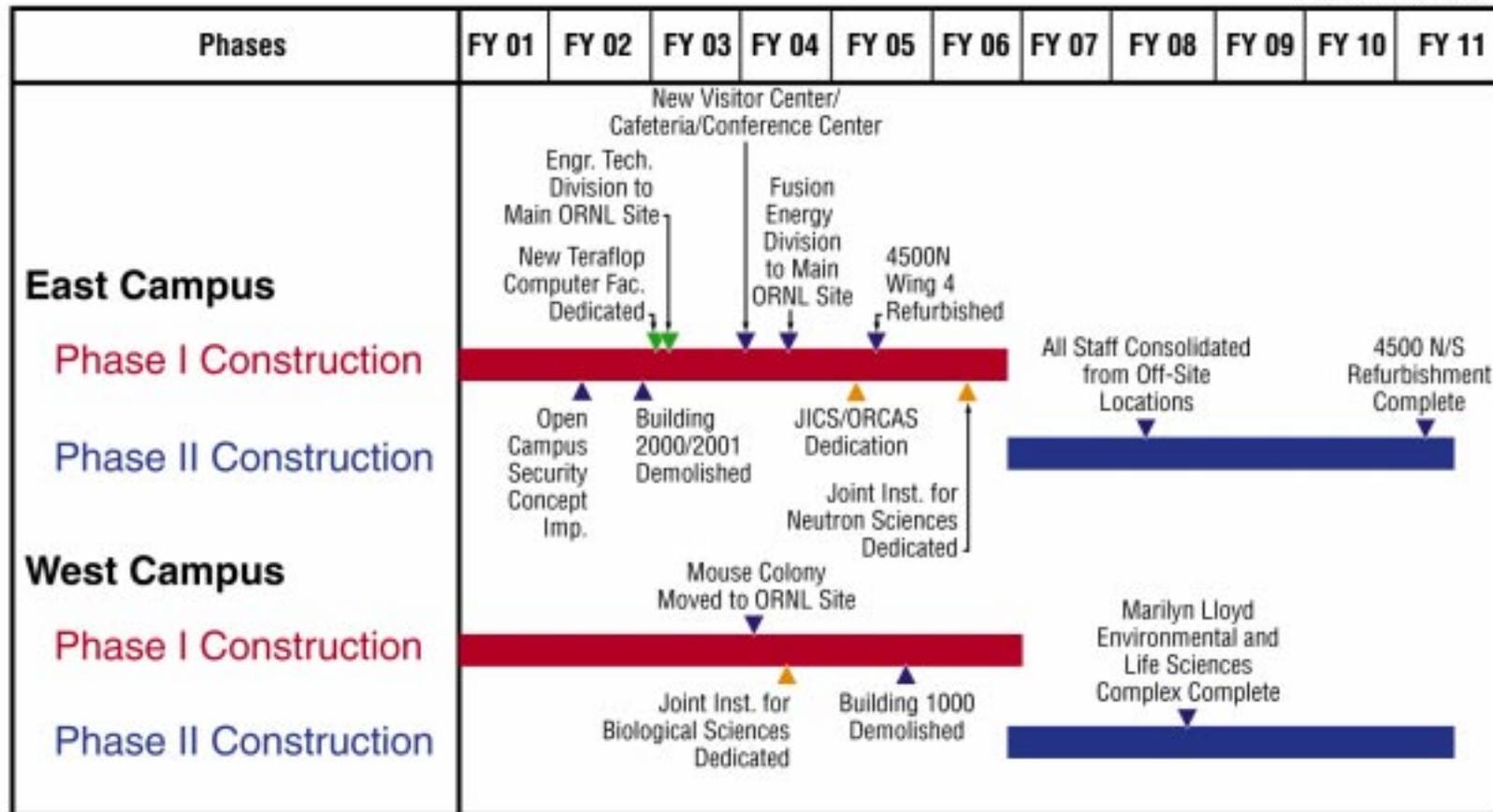


Fig. 3.29 Preliminary schedule for ORNL site development.



**Fig. 3.30. Preliminary consolidation/D&D schedule for selected ORNL surplus facilities.**



- ▲ DOE Funded
- ▲ State of Tennessee Funded
- ▲ UT-Battelle Funded

Figure 3.31. Major milestones on the Facilities Revitalization Project schedule.