

22-Trench Area TRU Waste Retrieval

618-10/-11 Burial Ground Remedial
Design Technical Workshop

June 10, 2003

22-Trench Area TRU Waste Retrieval

- Project Objective
 - Design, excavate, retrieve, handle, package, transport, and stage waste material buried in 22 unlined trenches in Solid Waste Storage Area (SWSA) 5 North
 - 204 retrievable casks, 18 boxes, and 12 drums
 - Final disposal of the retrieved waste is included in the TRU Disposition Project and is not part of this project

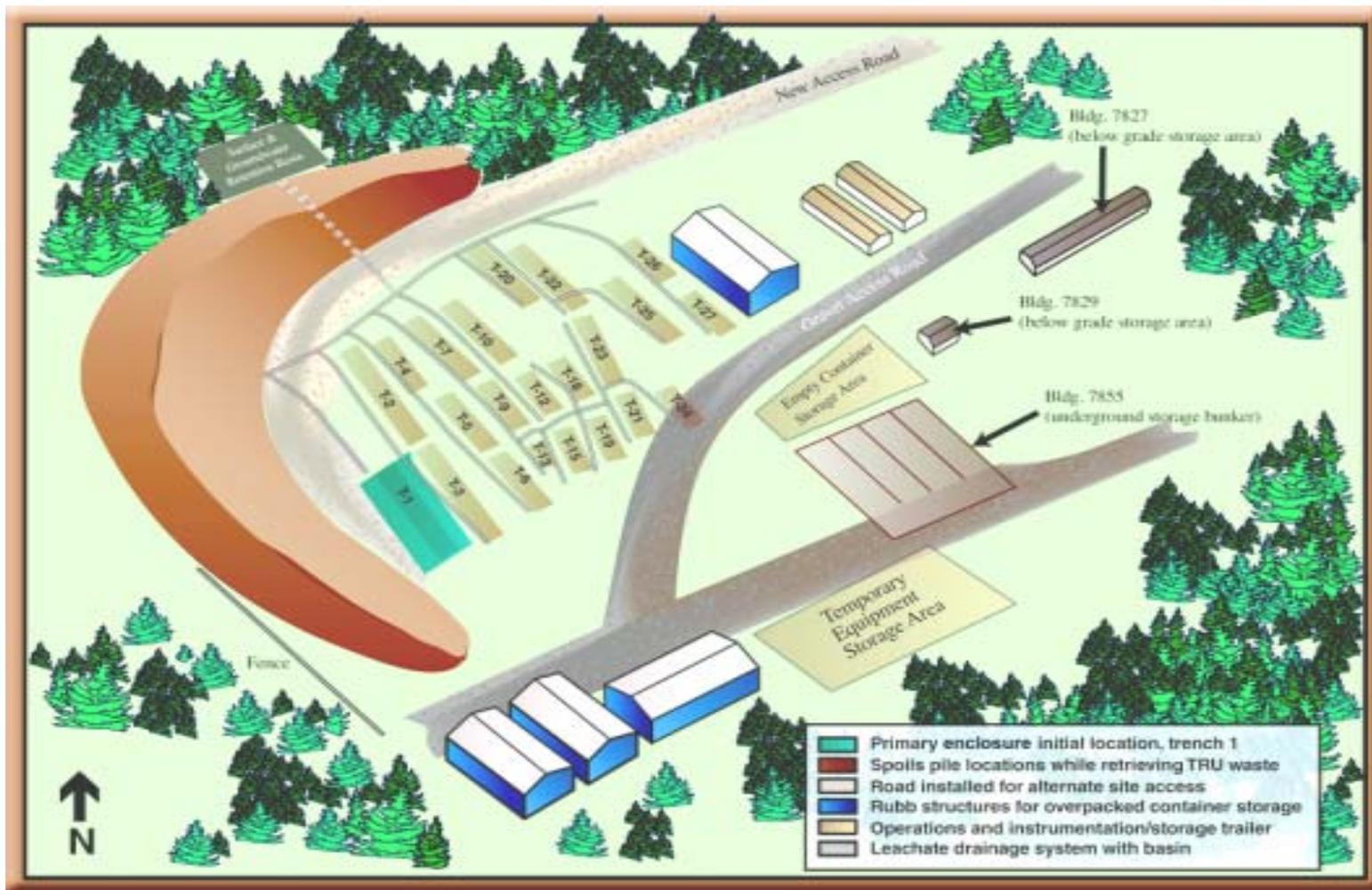
22-Trench Area TRU Waste Retrieval

- Project Status
 - Subcontract has been awarded to The Washington Group for turn-key operations including RDR/RAWP, DSA, and field activities
 - Legacy Waste stored in facilities at the SWSA 5 North area is being removed. Completed shipment of 16,896 ft³ of the 30,000 ft³ to be consolidated at ETTP.

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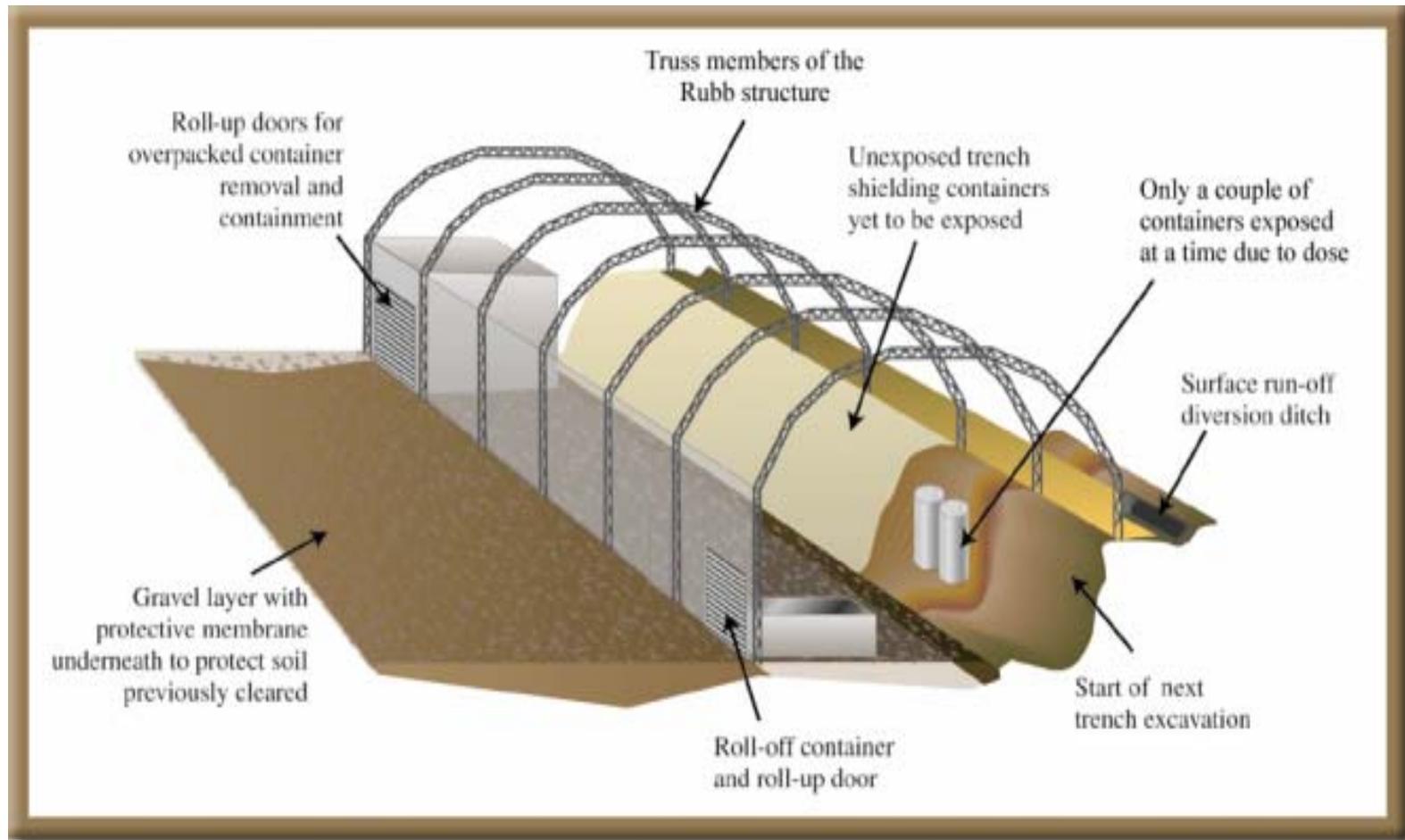
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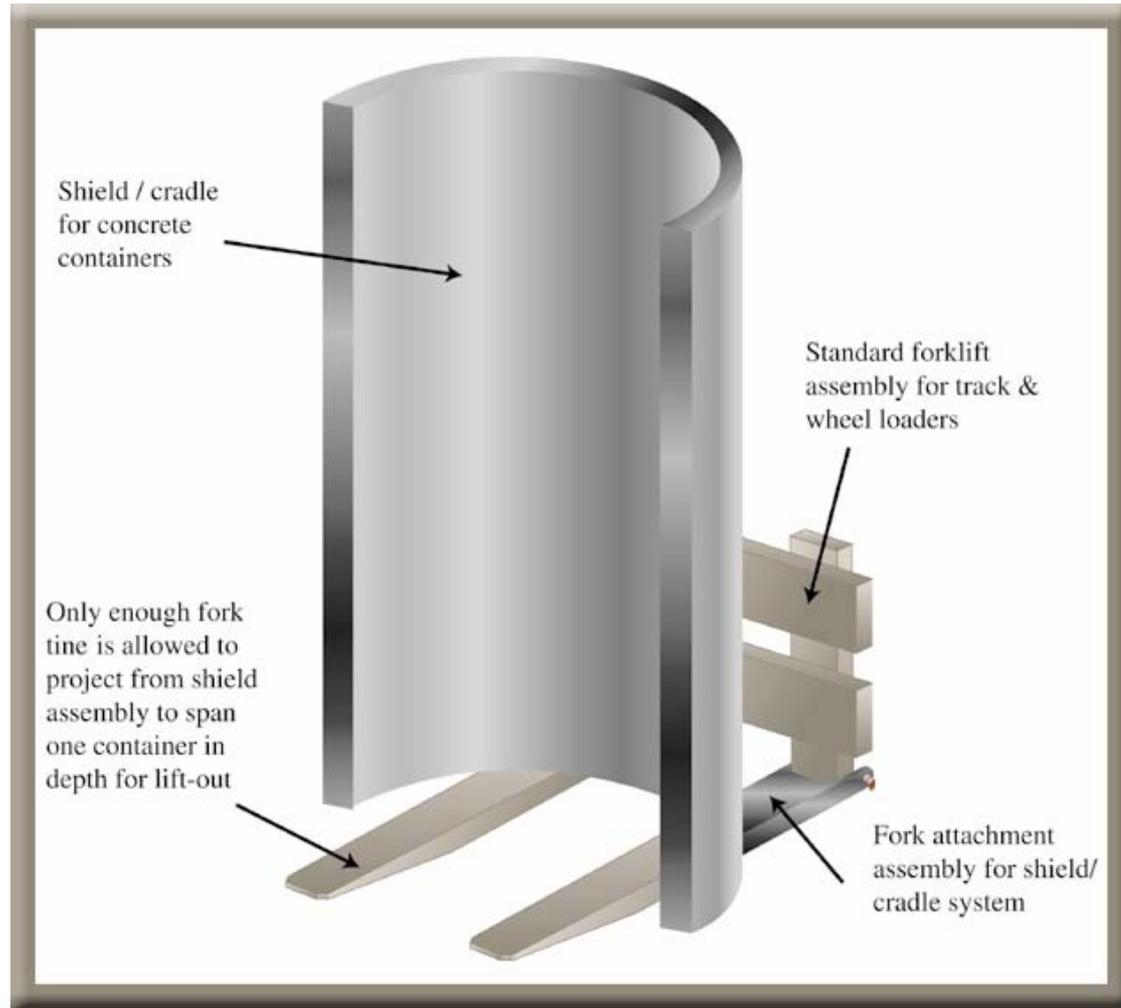
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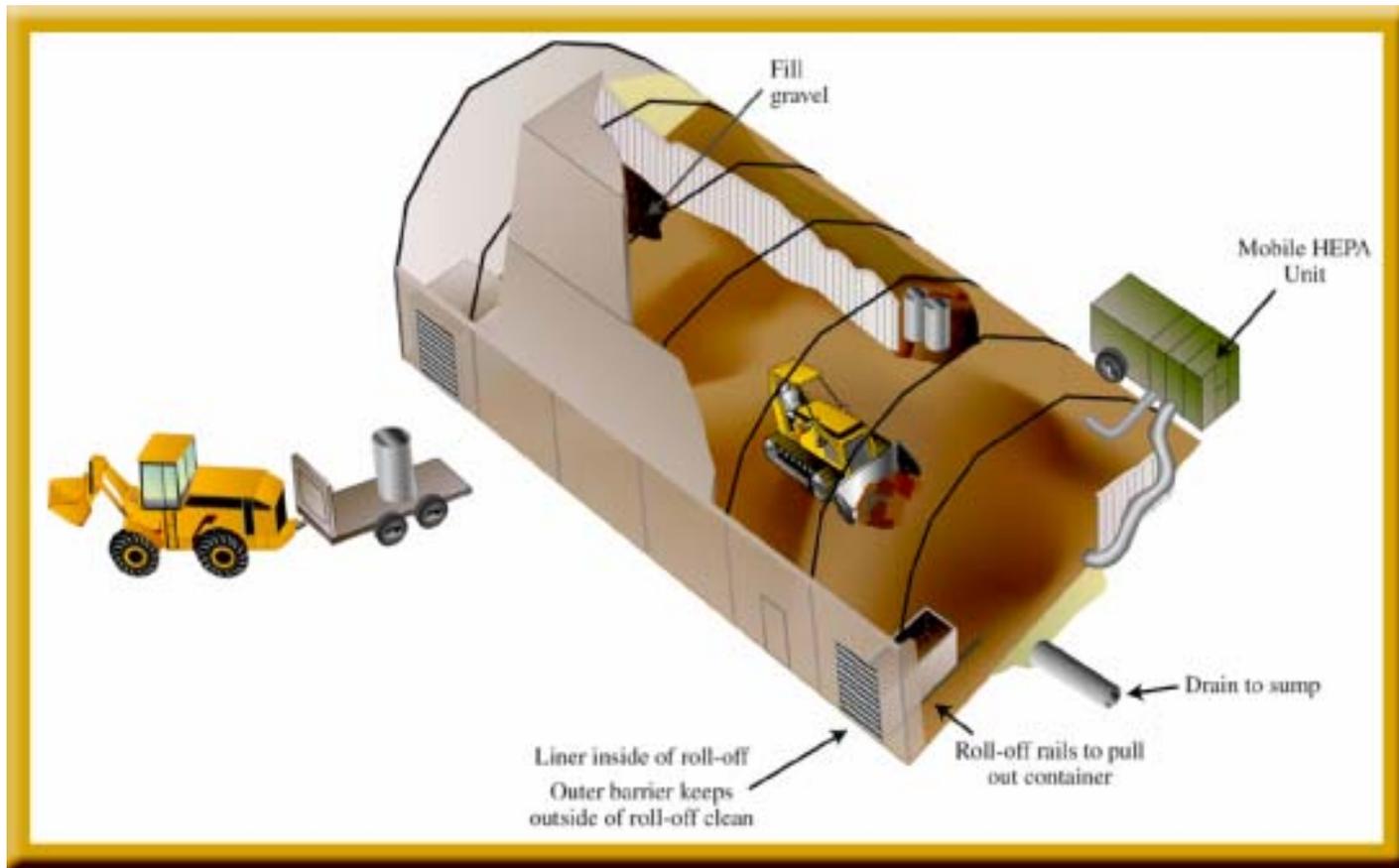
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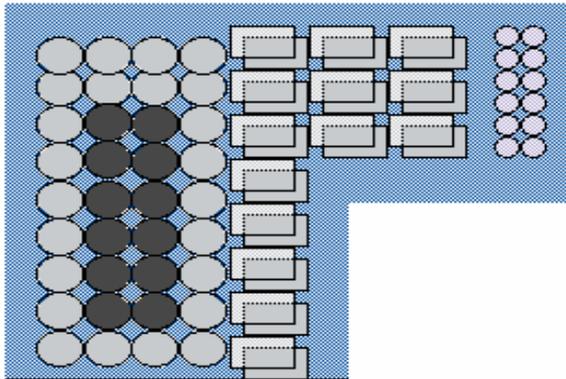


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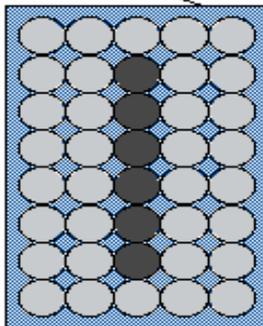
Bunker 7823, 36 Containers, 18 Boxes, 12 Drums
(Note: Boxes stacked two high for storage)



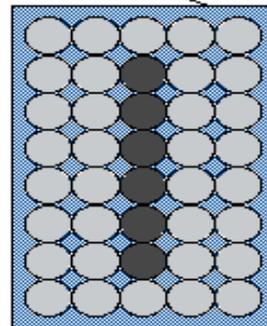
WGI plans on storing all the containers for the period of the contract by using the existing buildings as noted in this proposed building usage layout. Total containers stored: 204 overpacked concrete containers, 18 boxes, and 12 drums.

Note the dark containers: these represent high-dose containers which will utilize the lower-dose containers as shielding for ALARA.

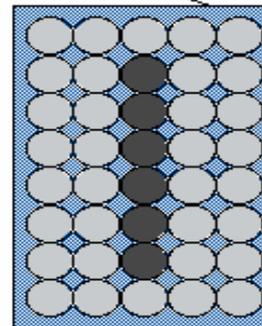
Rubb 7823 B
40 Containers



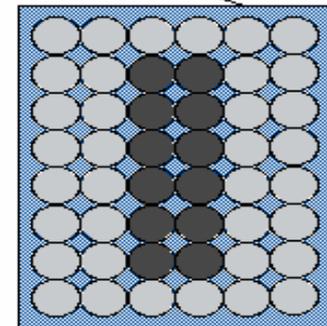
Rubb 7823 C
40 Containers



Rubb 7823 D
40 Containers



Rubb 7823 E
48 Containers



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- Regulatory Environment
 - Consent agreement for retrieval of casks with State of Tennessee
 - CERCLA for loose waste and soil removal
 - RCRA
 - 40 CFR Part 265 closure requirements for Trench 27
 - 40 CFR Part 264, if existing permitted storage facility is used

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- Regulatory Documentation Integration
 - Propose modified RDR/RAWP
 - Will delineate work subject to various drivers
 - RCRA closure plan for Trench 27 included as an appendix, but can also be a stand-alone document for DSWM review, public notice, and approval
 - Any required RCRA permit modification for storage facility to be a separate submittal to DSWM
 - Approach may need to be modified after further discussion with DSWM

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- Lessons Learned:
 - Capture historical documentation and worker knowledge early in the process
 - Make all data and information available to formulate design criteria
 - An evaluated procurement weighted more on the technical approach than the price
 - A clear grading criteria for proposals prior to evaluation

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- Lessons Learned (continued):
 - Teaming approach with all stakeholders
 - Flexible or fluid approach to achieve final goal
 - Understanding known risk, developing contingencies, and team sharing of the risk
 - Documented Safety Basis and design/method of accomplishment being developed concurrently

