

Public Information Session

April 20, 2004

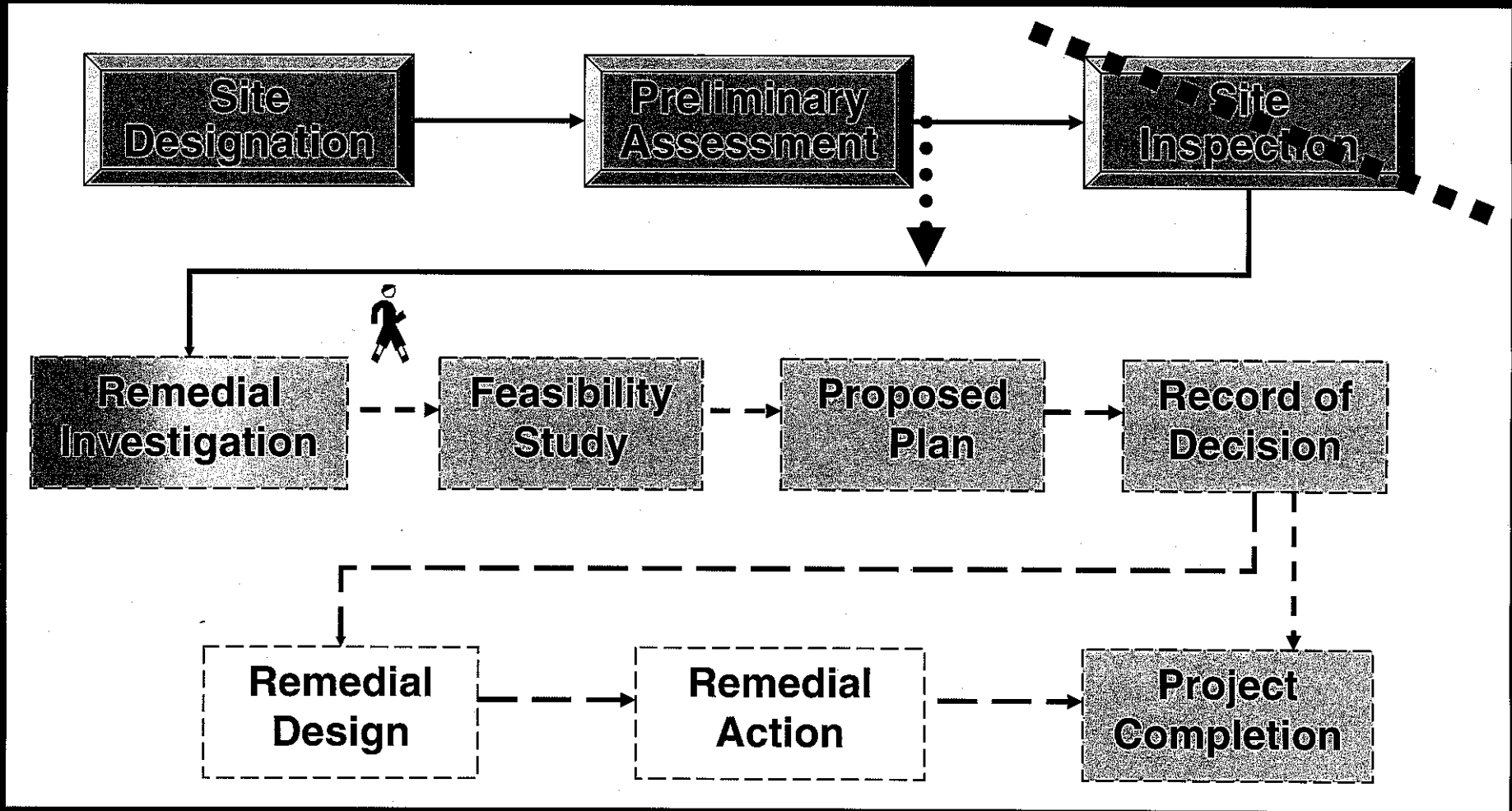
Shallow Land Disposal Area

Parks Township
Armstrong County, Pennsylvania

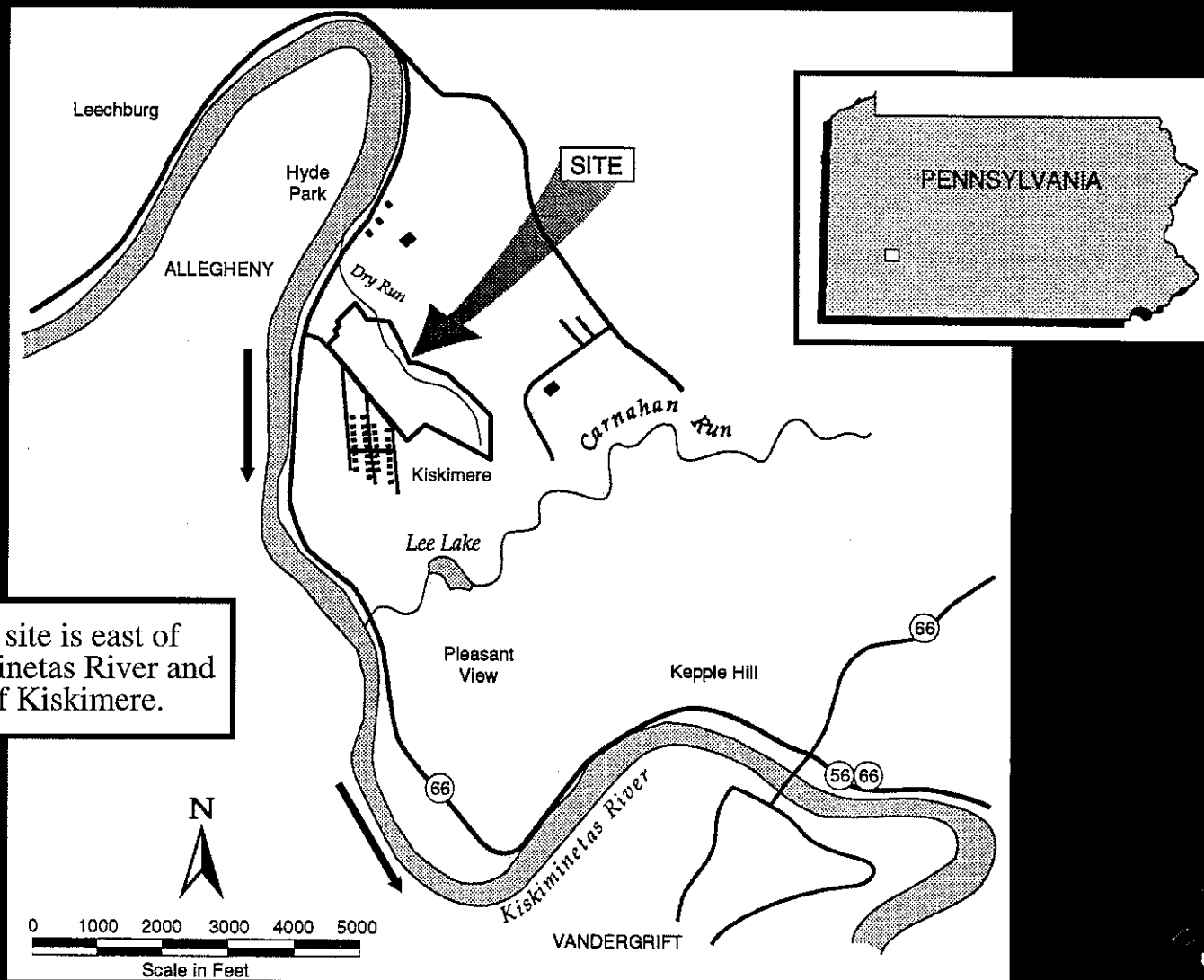
Prepared by:

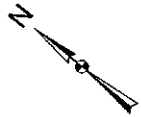
U.S. Army Corps of Engineers

CERCLA Process



SLDA Vicinity Map

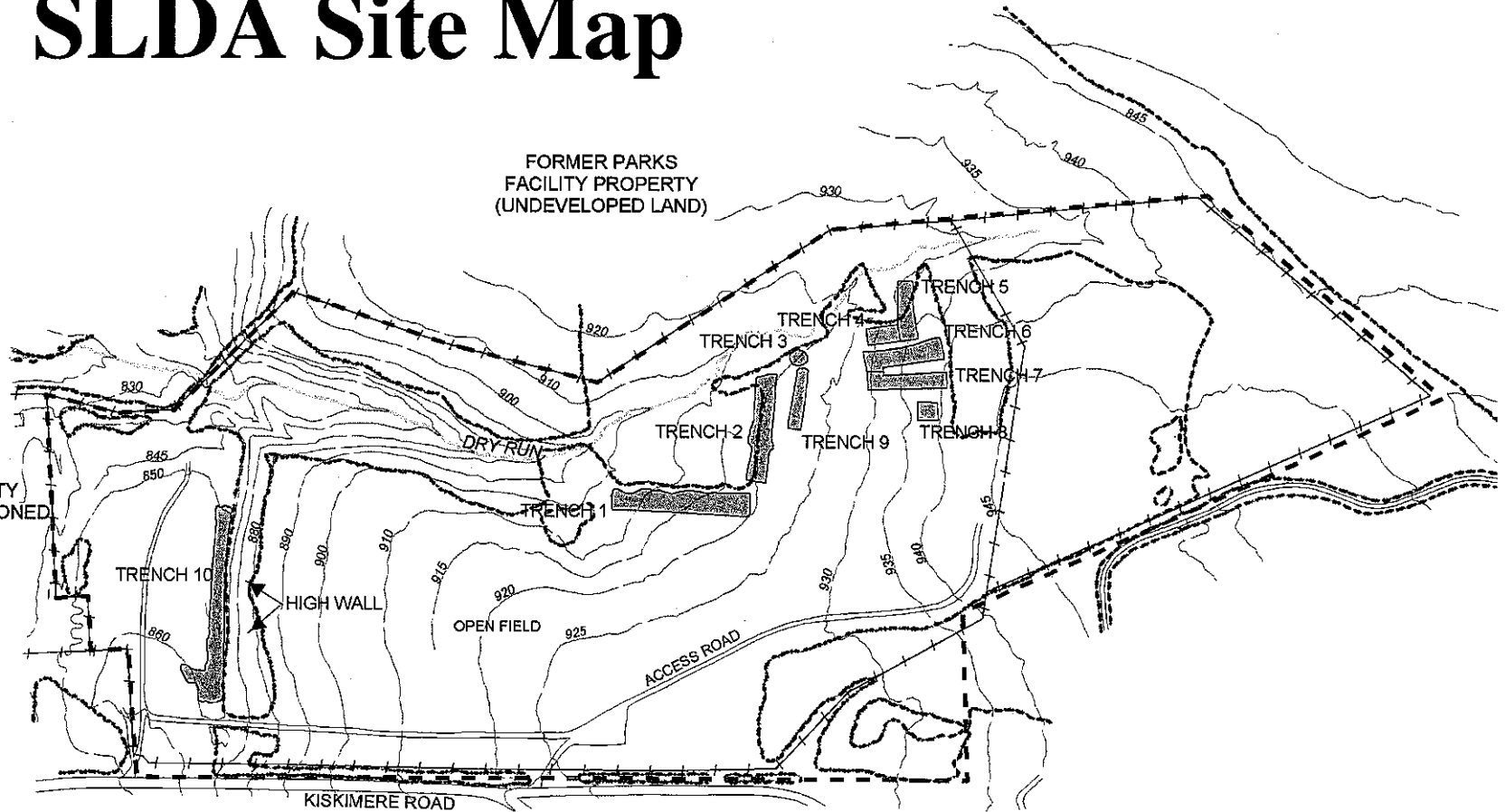




SLDA Site Map






FORMER PARKS
FACILITY PROPERTY
(UNDEVELOPED LAND)

FORMER PARKS
FACILITY PROPERTY
(FACILITY DECOMMISSIONED
IN 2000)



RESIDENTIAL PROPERTY
(VILLAGE OF KISKIMERE)

Legend

-  920 Topographic Contour (feet)
-  - - - Vegetation Line (Typ.)
-  x-x-x Chain Link Fence
-  - - - Site Boundary
-  Approximate Limits of Disposal Trenches from Geophysical Survey

0 150 300
Feet



Historical Photographic Analysis

- The United States Army Topographic Engineering Center (TEC) completed an historical photographic analysis in June 2003.
- The report summarized a review of available aerial photographs of SLDA between 1950 and present with special emphasis on potential disposal activities.
- Report findings were used to help guide remedial investigation sampling program.



Analysis of Photography



June 2, 1967

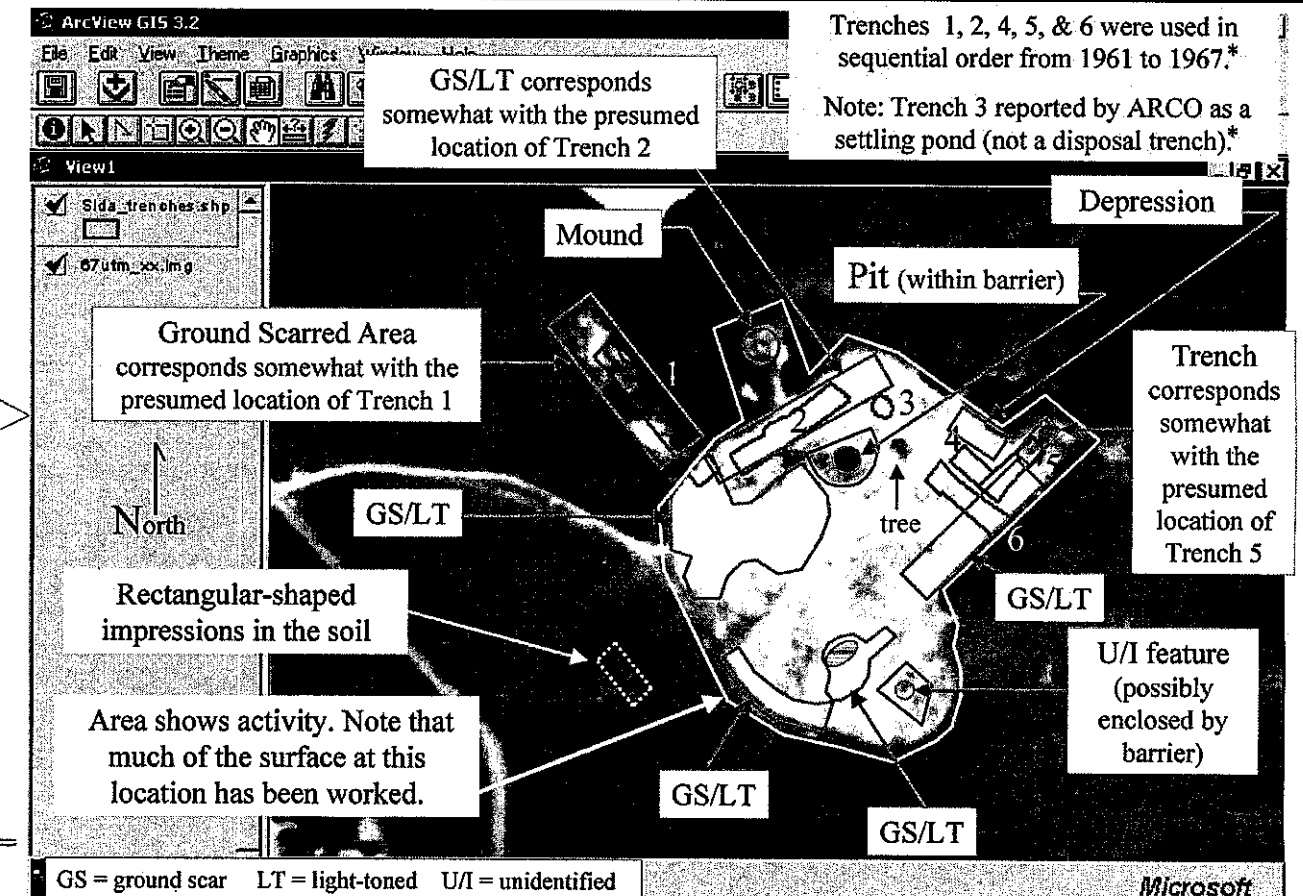
ArcView GIS Data

Upper trench area
(red polygons -
numbered 1 to 6)
Displayed Over
1967 Aerial
Photography

2 June 1967

SHALLOW LAND
DISPOSAL AREA
Armstrong County, PA

-  = depression
-  = pit (not to scale)



Red polygons = ArcView GIS Shapefile trench data provided by US Army Corps Of Engineers, Buffalo District, Buffalo, New York.

* Source: Atlantic Richfield Company (ARCO), Shallow Land Disposal Area Trench Contents and Volume, March 2000.



Presentation of Preliminary RI Results

- Perimeter Air Monitoring Program - Ongoing
- Surface and Subsurface Soil Sampling - Completed
- Trench Investigations & Sampling - Completed
- Groundwater Investigations & Sampling - Ongoing
- Surface Water, Groundwater Seep, & Sediment Sampling – Ongoing

Four months of intrusive field work completed with no measured release of radioactive or chemical constituents.



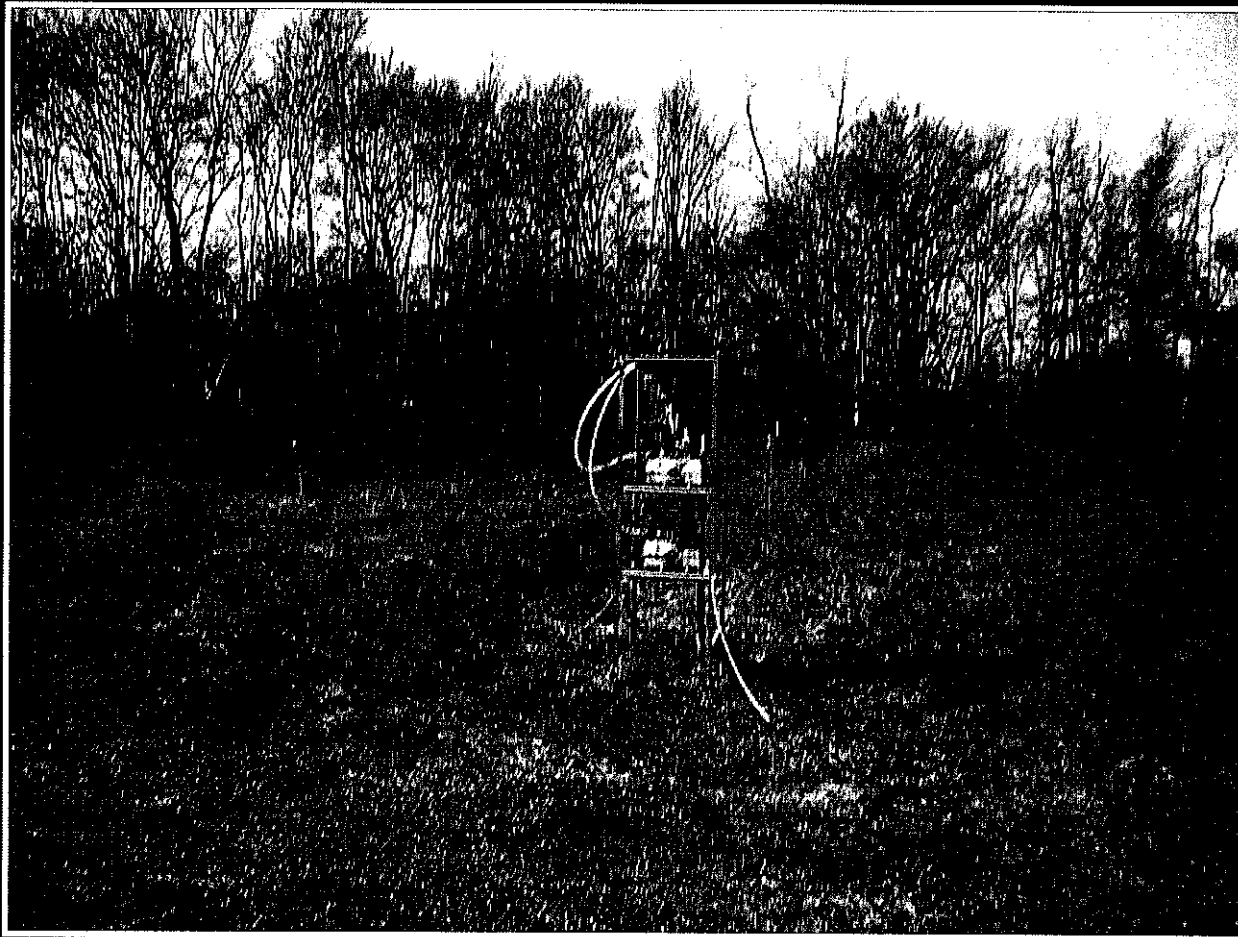
Presentation of Preliminary RI Results

- Perimeter Air Monitoring Program



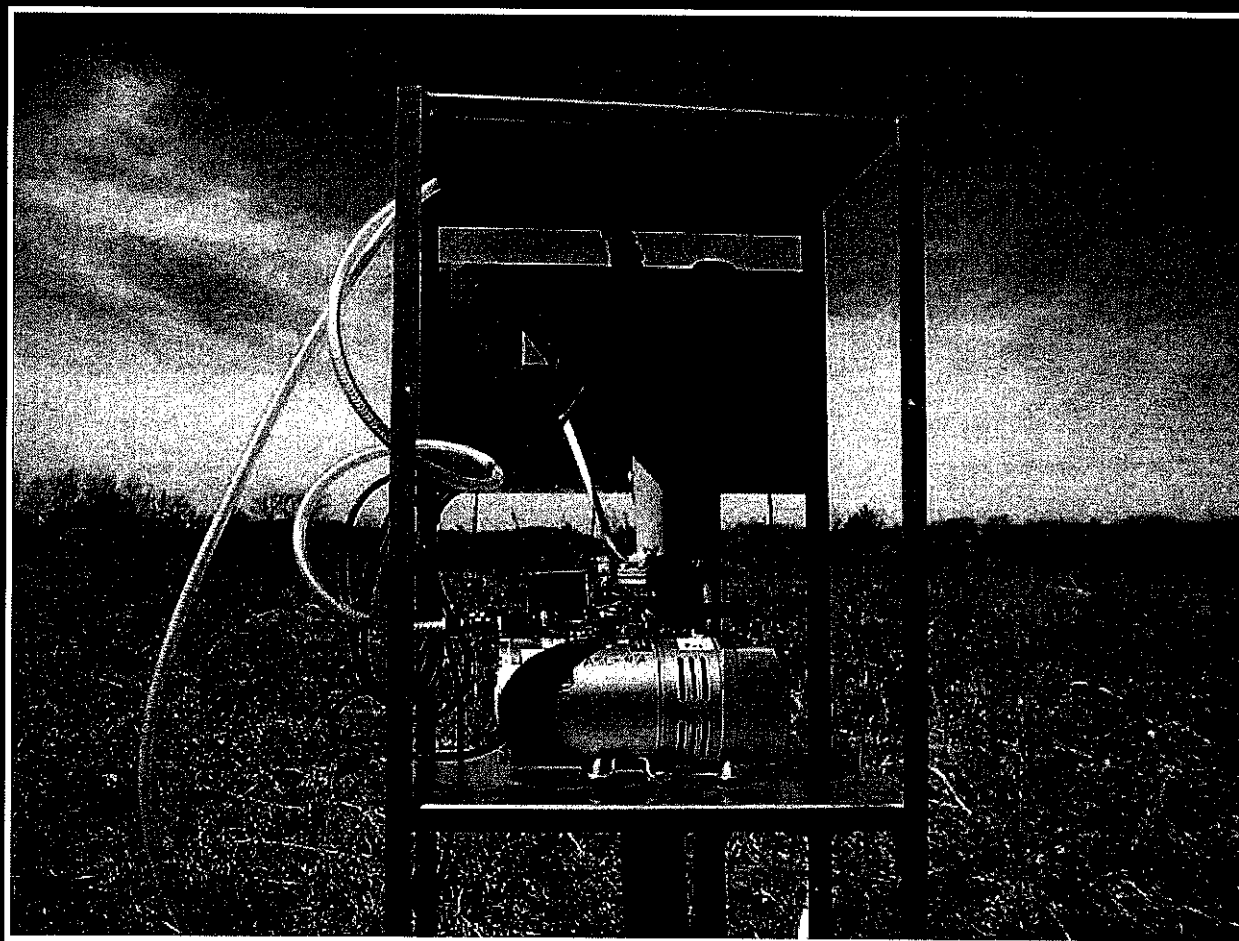
Presentation of Preliminary RI Results

- Perimeter Air Monitoring Program

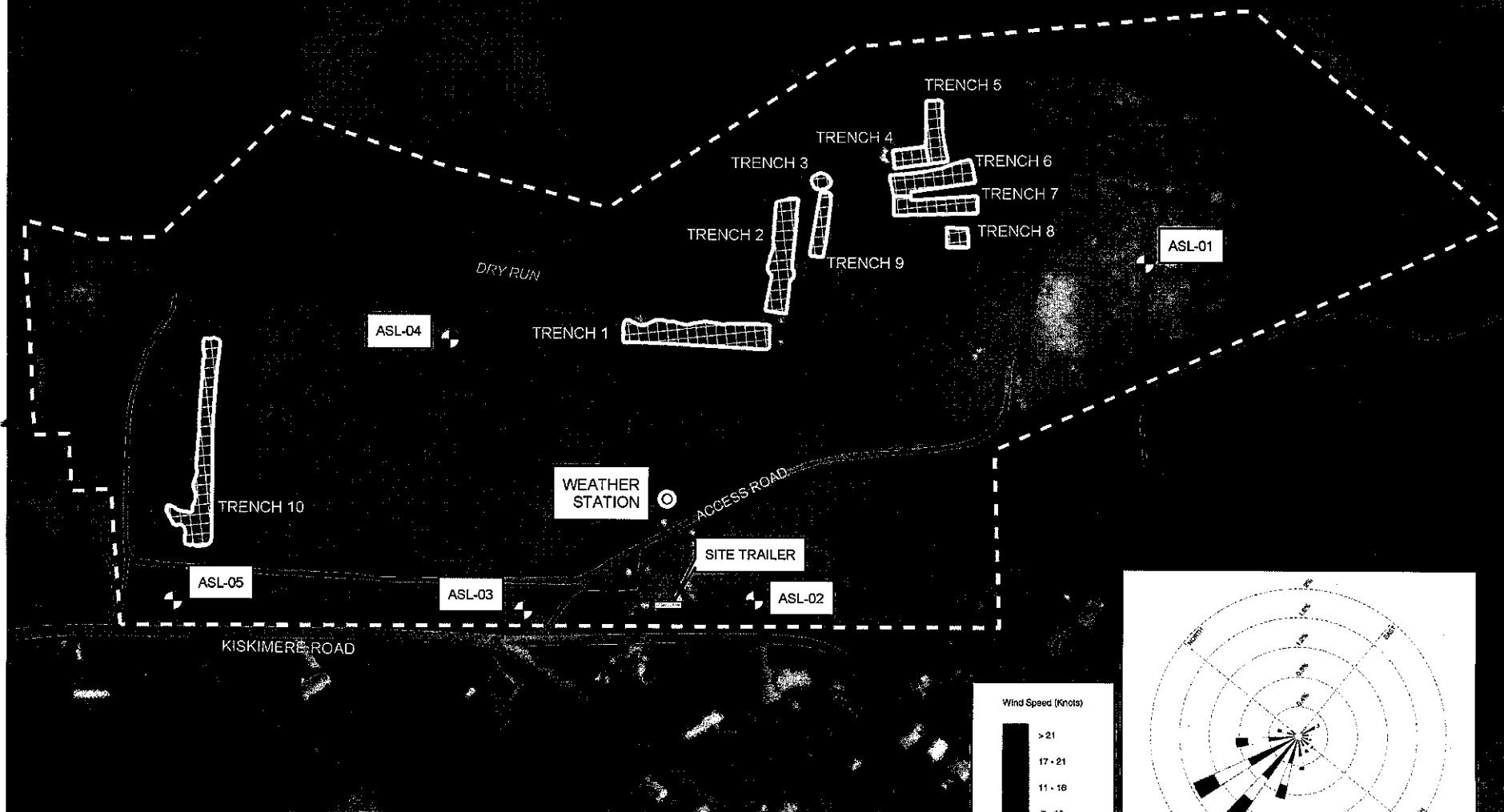


Presentation of Preliminary RI Results

- Perimeter Air Monitoring Program

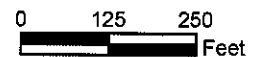
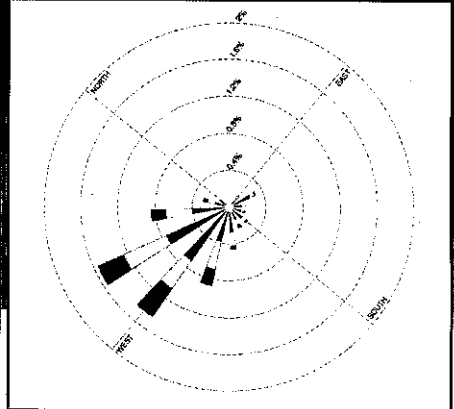


Perimeter Air Monitoring Locations



Legend

- Air Monitoring Location
- Site Boundary
- Approximate Limits of Disposal Trenches from Geophysical Survey

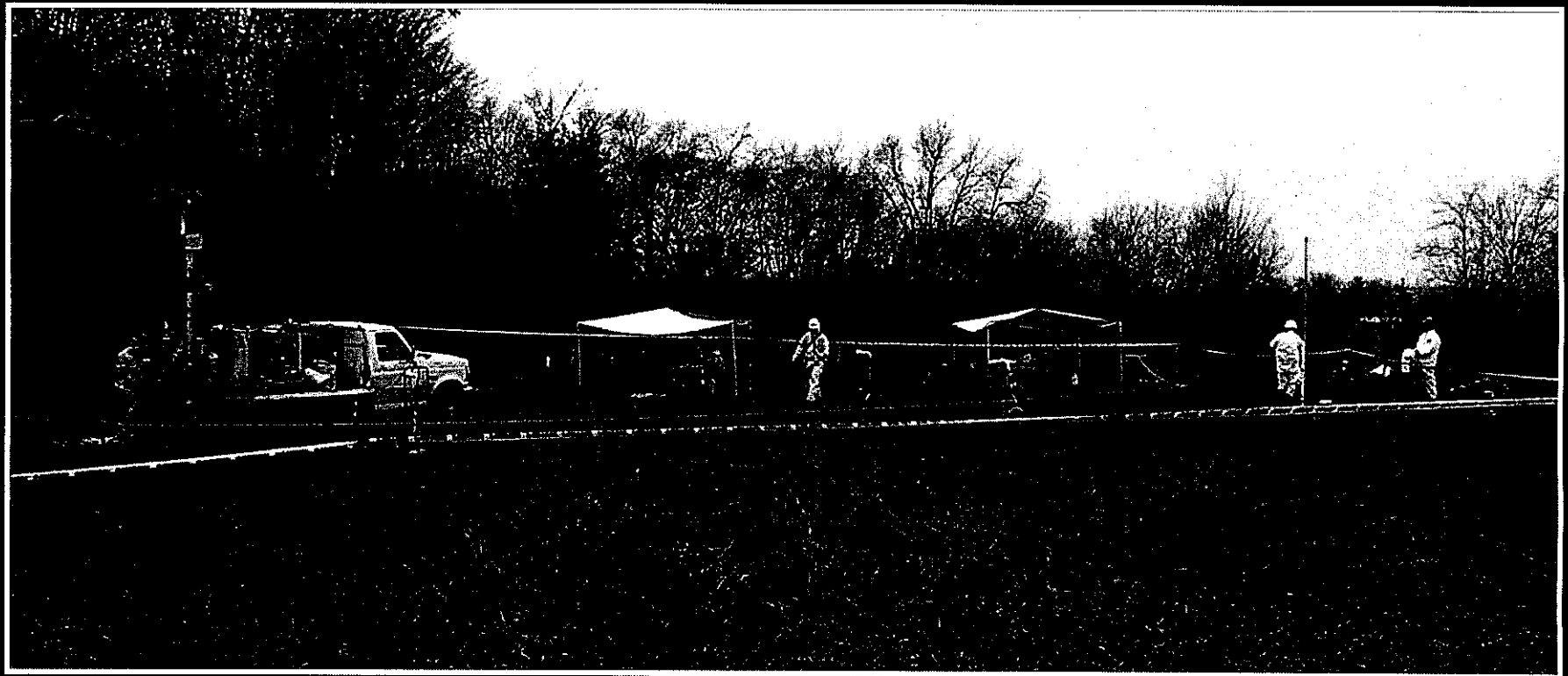


Perimeter Air Sampling Results

Radionuclide	Number of Samples	Number of Detections	Minimum Detected Value (uCi/ml)	Maximum Detected Value (uCi/ml)	Average Detected Value (uCi/ml)
Am-241	85	No Detections	No Detections	No Detections	No Detections
Ra-228	85	29	4.32×10^{-16}	3.87×10^{-15}	2.62×10^{-15}
Th-232	85	No Detections	No Detections	No Detections	No Detections
U-234	85	5	9.74×10^{-16}	6.76×10^{-15}	2.43×10^{-15}
U-235	85	1	5.83×10^{-15}	5.83×10^{-15}	5.83×10^{-15}
U-238	85	3	7.82×10^{-16}	3.16×10^{-15}	2.09×10^{-15}
Gross Alpha	85	49	4.66×10^{-16}	1.03×10^{-14}	2.89×10^{-15}
Gross Beta	85	85	1.1×10^{-14}	3.93×10^{-14}	2.08×10^{-14}



Work Zone Air Monitoring



Work Zone Air Monitoring



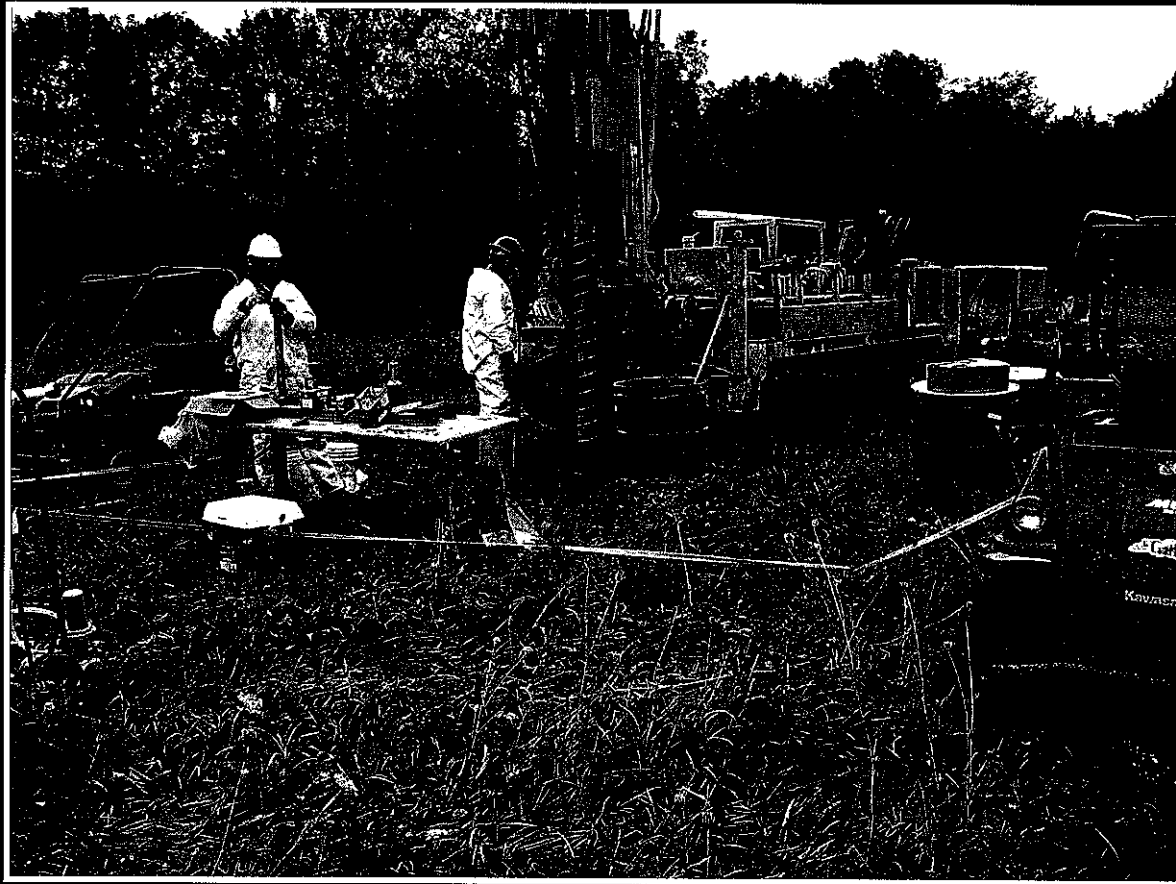
Presentation of Preliminary RI Results

- Surface and Subsurface Soil Sampling



Presentation of Preliminary RI Results

- Surface and Subsurface Soil Sampling



Presentation of Preliminary RI Results

- Surface and Subsurface Soil Sampling



Presentation of Preliminary RI Results

- Surface and Subsurface Soil Sampling



Presentation of Preliminary RI Results

- Surface and Subsurface Soil Sampling

