

OFFICE MEMORANDUM

TO File

DATE: December 4, 1978

FROM John Booth, H-12 *JB*

SUBJECT MOISTURE MONITORING HOLES, TA-50, AREA C

SYMBOL H21-78-426

MAIL STOP 490

In August of 1978 four soil moisture monitoring holes (PC-S, PC-2, PC-5, and PC-6) were drilled in LASL Materials Disposal Area C. (Fig. 1). The primary objective of this is to obtain a hydrological profile of the Bandelier tuff to a depth of approximately 30 meters. The hydrological data gathered from the monitoring holes will enable us to determine the extent to which water acts as a transporting agent of buried TRU waste material away from the burial pits and shafts.

Each monitoring hole was augered to a depth of approximately 30 meters with a .076 meter auger. Because of auger vibration the final hole diameters were .085 meter. Each hole was then cased to a depth of 4.5 meters with .076 meter, inside diameter aluminum tubing. To standardize moisture data gathering, 0.5 meter of aluminum casing was left extending above ground level. Cement was then poured to both secure the casing and to prevent surface water runoff from entering the hole.

Hydrological data gathering began in August of 1978 at Area C. Data is obtained using a Troxler Am-Be Neutron probe and a Troxler Scaler-Ratemeter. Readings are taken at .5 meter intervals for .5 minutes. Each hole is monitored on a monthly basis.

JB:tj

Attach: Figure I

cc: M. A. Rogers

M. Wheeler

W. Abeele



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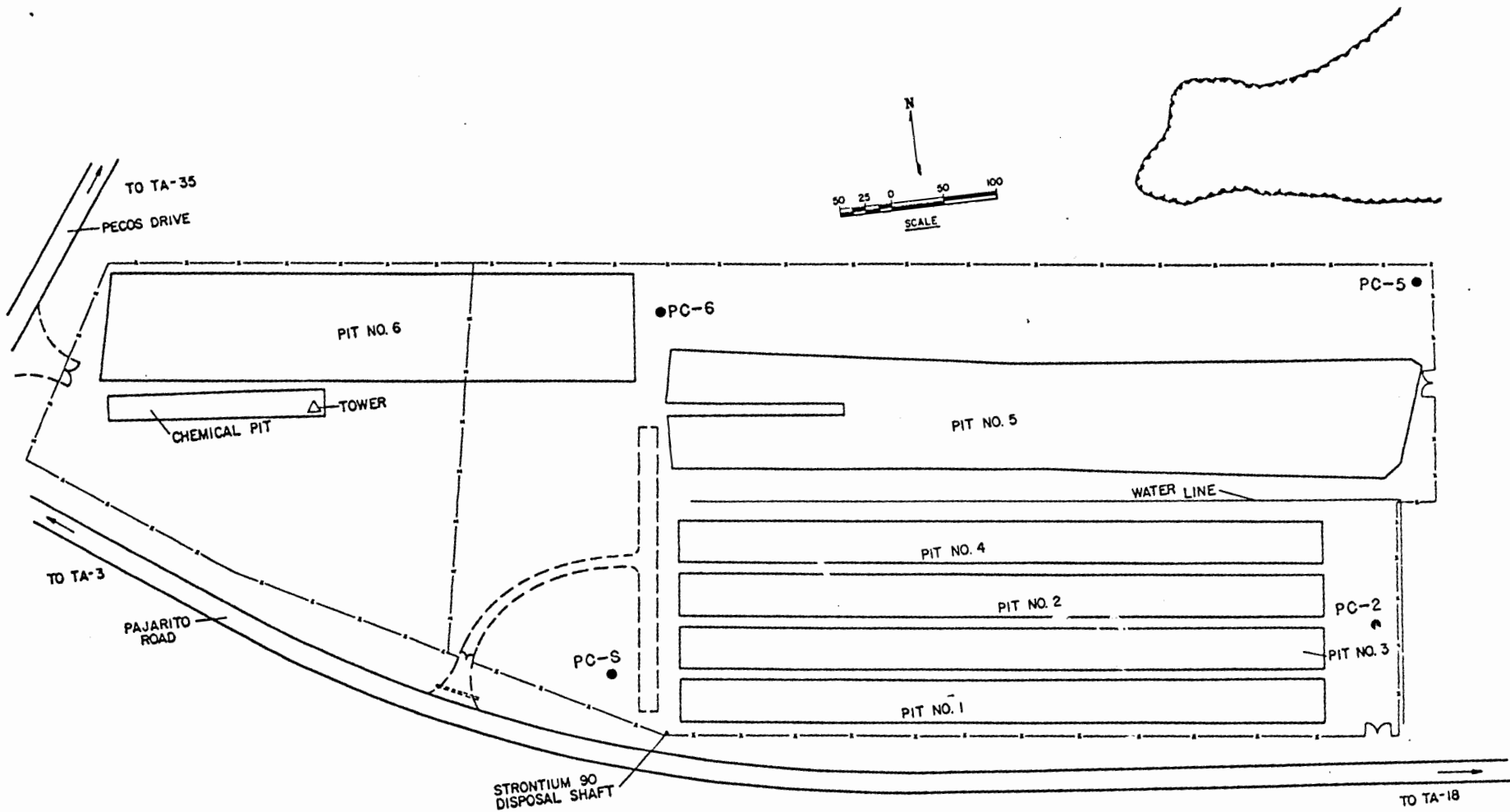


Fig. 1  
 Materials Disposal Area C,  
 Pajarito Road, TA-50.