

Reports

OFFICE MEMORANDUM

TO : Dan W. Wilson, H-12 Group Leader, MS 490

DATE: October 3, 1978

FROM : Willy Abeelee 

SUBJECT : MONTHLY REPORT

SYMBOL : H12-78-206

MAIL STOP: 490

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1. A method described by Campbell (1974) to obtain the unsaturated hydraulic conductivity after establishing a functional relationship between Matric Potential and Saturation Ratio has been used to predict the hydraulic conductivity in the Bandelier Tuff at different levels of saturation. The coefficient of correlation between the predictive formula and actual measurements is extremely significant at Matric Potentials lower than -10 k Pa (-0.1 bar).
 2. Seven spots in Area C, where surface contamination was determined to be high during previous tests, were chosen for further study. Their location in the field is indicated by a white flag.
 3. After checking the computer program, no error could be found that would relate to the erroneous results obtained during routine monitoring of the moisture monitoring holes. The only option left is to rerun the whole set of data obtained since March 1978 including the data acquired from the newly drilled monitoring holes in Area C using the calibration equation $\text{MRV} = -0.029 + 0.490 (\text{C.R.})$ where $\text{MRV} = \text{Moisture Ratio by Volume}$ and $\text{C.R.} = \text{Count Ratio}$.

WA:pb

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