



SDMS DocID 46235

Superfund Records Center

SITE: New Bedford

BREAK: 07.01

OTHER: 46235

111
4.1.11

CEWES-EE-R (200-1c)

9 February 1993

MEMORANDUM FOR CENED-PD-L/MR. MARK OTIS

SUBJECT: Hydraulic Conductivity and Consolidation Data for New Bedford Sediment

1. I am enclosing two copies of the consolidation data (encl 1) for the composite sediment sample tested during the Engineering Feasibility Study (EFS). These data show hydraulic conductivity as a function of applied load and void ratio. Also enclosed are selected pages from the EFS report no. 5, which show the permeability values measured during the permeameter leaching tests.
2. Permeameter values at the end of the leaching tests ranged from $1.6E-08$ to $7.1E-08$ cm/sec for void ratios ranging from 2.43 to 3.06. The hydraulic conductivity values estimated from the consolidation runs for a void ratio of 2.52 were between $2.1E-07$ and $2.6E-07$ cm/sec. I used a slightly higher void ratio of 2.8 in estimating the hydraulic conductivity of $3.3E-07$ cm/sec in the HELP model runs performed in October 1992.
3. Please let me know if you have any questions concerning this information. I will review the percolation estimates using the HELP model after I return 1 March and after I receive the site geometry information from you.

2 Encls

Daniel E. Averett

DANIEL E. AVERETT
Environmental Engineer
Environmental Restoration Branch