

**Table 6. Distribution Coefficients and Retardation Factors for Organic Contaminants  
Detected in Groundwater Above MCLs at Sites 16 and 17  
Volume II - Remedial Investigation, Basewide RI/FS  
Fort Ord, California**

Contaminant	Organic Carbon	Distribution	Retardation	Mobility/3/	Persistence/3/	Volatilization Potential/3/
	Partition Coefficient Koc (ml/g)	Coefficient Kd/1/ (ml/g)	Factor R/2/ (dim)			
Trichloroethene	1.26E+02	2.46E-01	2.16	high	high	high
Tetrachloroethene	3.64E+02	7.10E-01	4.34	medium	high	high
Carbon tetrachloride	1.10E+02	2.15E-01	2.01	medium	high	high

Site specific soil properties
Organic carbon content (foc) /4/ = 0.00195
Bulk Density (rd) /5/ = 1.79
Effective Porosity (ne) /6/ = 0.38

/1/  $K_d = K_{oc} f_{oc}$

/2/  $R = 1 + rd K_d / n_e$

/3/ Rankings based on Dragun (1988) and Ney (1990); see Table 5.

/4/ Average value from 33 samples collected during Phase 1 of the RI, site-specific values are not available (Draft Technical Memorandum: Approach to Evaluating Potential Groundwater Quality Impacts, Fort Ord, California, dated July 29, 1993)

/5/ Mean of 6 dry bulk density measurements taken for Gloria Sand Loam of Monterey County (USDA, 1978)

/6/ Mean site-specific porosity value

Abbreviation:

ml/g - milliliters/gram