

### Attachment 3

#### TABLE 4B

#### Calculation of Dilution Attenuation Factors for Organics

Parameter of Interest	Chemical <sup>1</sup>	Hydraulic Conductivity, K (ft/yr)	Gradient, i	Infiltration Rate, I (ft/yr)	Average Aquifer Thickness, da (ft) <sup>2</sup>	Mixing Zone, d (ft) <sup>3</sup>	Source Length, L (ft) <sup>4</sup>	DAF <sup>5</sup>
Organochlorine Pesticides	4,4'-DDE	47,500	0.02	0.14	13.5	15	150	6.3E+02
	4,4'-DDT	47,500	0.02	0.14	13.5	15	150	6.3E+02
	Aldrin	47,500	0.02	0.14	13.5	23	210	4.3E+02
	Alpha-BHC	47,500	0.02	0.14	13.5	64	610	1.5E+02
	Beta-BHC	47,500	0.02	0.14	13.5	305	2,900	3.3E+01
	Dieldrin	47,500	0.02	0.14	13.5	12	110	7.2E+02
	Gamma-BHC (Lindane)	47,500	0.02	0.14	13.5	72	680	1.4E+02
SVOCs	Benz(a)anthracene	47,500	0.02	0.14	13.5	12	110	7.2E+02
	Benzo(b)fluoranthene	47,500	0.02	0.14	13.5	12	110	7.2E+02
	Hexachlorobenzene	47,500	0.02	0.14	13.5	110	1,000	9.0E+01
VOCs	1,2,3-Trichloropropane	47,500	0.02	0.14	13.5	15	140	6.7E+02
	1,2,4-Trichlorobenzene	47,500	0.02	0.14	13.5	12	120	7.2E+02
	Benzene	47,500	0.02	0.14	13.5	21	200	4.6E+02
	Carbon tetrachloride	47,500	0.02	0.14	13.5	11	100	7.2E+02
	Chloroform	47,500	0.02	0.14	13.5	56	520	1.8E+02
	Methylene chloride	47,500	0.02	0.14	13.5	22	200	4.5E+02

Notes:

- 1 - DAF is calculated only for chemicals which had a detect greater than the LBCL (DAF=20) and have a RBGC.
- 2 - Average aquifer thickness defined as the mean of the measured values from the wells at the northern Site boundary (see Attachment 3, Table 1B).
- 3 - Aquifer mixing zone depth  $d = (0.0112L^2)^{0.5} + da[1 - \exp(-LI/Kida)]$  (Equation 4 from BCL guidance).  
If  $d > da$ , use aquifer thickness instead of mixing zone thickness.
- 4 - Source lengths measured based on Phase A and B soil samples that exceed LBCLs for DAF=20, as discussed in Attachment 3.
- 5 - Dilution attenuation factor  $DAF = 1 + KID/IL$  (Equation 3 from BCL guidance).

Abbreviations:

DAF: Dilution attenuation factor

RBGC: Risk-based groundwater concentration