

TABLE 4-1
KDHE TIER 2 RISK-BASED SCREENING LEVELS

Chemical Name	CAS No.	RESIDENTIAL SCENARIOS			NON - RESIDENTIAL SCENARIOS		
		Soil Pathway	Soil to Ground Water Protection Pathway *	Ground Water Pathway	Soil Pathway	Soil to Ground Water Protection Pathway *	Ground Water Pathway
		(mg/kg)	(mg/kg)	(ug/L)	(mg/kg)	(mg/kg)	(ug/L)
Benzene	71-43-2	9.8 n	0.08	5 m	17 c	0.08	5 m
Toluene	108-88-3	930 n	40	1000 m	1000 s	40	1000 m
Ethylbenzene	100-41-4	650 s	55	700 m	650 s	55	700 m
Xylenes (mixed)	1330-20-7	700 s	700 s	10000 m	700 s	700 s	10000 m
1,2 Dichloroethane (DCA)	107-06-2	4.7 c	0.04	5 m	7.3 c	0.04	5 m
Methyl Tertbutyl Ether (MtBE)	1634-04-4	2400 n	0.09	20 h	15000 n	0.09	20 h
Ethylene dibromide (EDB)	106-93-4	0.09 c	0.0006	0.05 m	0.2 c	0.0006	0.05 m
Naphthalene	91-20-3	104 n	1.05	3 n	325 n	3.52	9 n
TPH (GRO)		220	39	500	450	150	500
TPH (DRO)		2000	3000	500	20000	15000	720

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Footnotes:

n - non-carcinogenic risk, HI = 1

c - carcinogenic risk, risk = 1×10^{-5}

s - soil saturation

m - primary maximum contaminant level (MCL)

h - health advisory