Calculation of Health Risk - Receptor Location 5

CDI = (C * IR * ET * EF * ED) / (365 * AT * BW)

Benzene

	Child 0-5	Child 6-15	Adult 16 - 70		Construction Worker	
C	0.001085551	0.001085551	0.001085551		0.001085551	
IR	0.63	0.78	1.2		1.33	
ET	10	10	10		8	
EF	78	78	78		240	
ED	0.25	0.25	0.25		1	
AT non threshold	70	70	70		70	
AT threshold	1	1	1		1	
BW	13.2	34.5	70		70	
CDI non threshold	3.95422E-07	1.87314E-07	1.42029E-07		1.54994E-06	
CDI threshold	2.76795E-05	1.3112E-05	9.94204E-06		0.000108496	
SF benzene	0.021	0.021	0.021		0.021	
risk	8.30386E-09	3.93359E-09	2.98261E-09	**1.52201E-08**	3.25487E-08	
RfD benzene	0.0029	0.0029	0.0029		0.0029	
Hazard Index	0.009544667	0.004521366	0.003428289	**0.009544667**	0.037412299	

Benzo(a)pyrene

	Child 0-5	Child 6-15	Adult 16 - 70		Construction Worker	
C	7.8436E-06	7.8436E-06	7.8436E-06		7.8436E-06	
IR	0.63	0.78	1.2		1.33	
ET	10	10	10		8	
EF	78	78	78		240	
ED	0.25	0.25	0.25		1	
AT non threshold	70	70	70		70	
AT threshold	1	1	1		1	
BW	13.2	34.5	70		70	
CDI non threshold	2.8571E-09	1.35343E-09	1.02622E-09		1.1199E-08	
CDI threshold	1.99997E-07	9.47398E-08	7.18357E-08		7.8393E-07	
SF benzo(a)pyrene	304	304	304		304	
risk	8.68559E-07	4.11442E-07	3.11972E-07	**1.59E-06**	3.4045E-06	

Calculation of Health Risk - Receptor Location 6

CDI = (C * IR * ET * EF * ED) / (365 * AT * BW)

Benzene

	Child 0-5	Child 6-15	Adult 16 - 70		Construction Worker	
C	0.002673737	0.002673737	0.002673737		0.002673737	
IR	0.63	0.78	1.2		1.33	
ET	10	10	10		8	
EF	78	78	78		240	
ED	0.25	0.25	0.25		1	
AT non threshold	70	70	70		70	
AT threshold	1	1	1		1	
BW	13.2	34.5	70		70	
CDI non threshold	9.73933E-07	4.61358E-07	3.49821E-07		3.81753E-06	
CDI threshold	6.81753E-05	3.22951E-05	2.44875E-05		0.000267227	
SF benzene	0.021	0.021	0.021		0.021	
risk	2.04526E-08	9.68852E-09	7.34624E-09	**3.74873E-08**	8.01682E-08	
RfD benzene	0.0029	0.0029	0.0029		0.0029	
Hazard Index	0.023508728	0.011136226	0.008443951	**0.023508728**	0.092147324	

Benzo(a)pyrene

	Child 0-5	Child 6-15	Adult 16 - 70		Construction Worker	
C	2.51062E-05	2.51062E-05	2.51062E-05		2.51062E-05	
IR	0.63	0.78	1.2		1.33	
ET	10	10	10		8	
EF	78	78	78		240	
ED	0.25	0.25	0.25		1	
AT non threshold	70	70	70		70	
AT threshold	1	1	1		1	
BW	13.2	34.5	70		70	
CDI non threshold	9.14516E-09	4.33212E-09	3.28479E-09		3.58463E-08	
CDI threshold	6.40161E-07	3.03248E-07	2.29935E-07		2.50924E-06	
SF benzo(a)pyrene	304	304	304		304	
risk	2.78013E-06	1.31696E-06	9.98577E-07	**5.09567E-06**	1.08973E-05	

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