Calculation of Preliminary Cleanup Goals - Continental Steel Superfund Site, Kokomo, Indiana
Recreational Exposure Scenario
Potential Exposure to Chemicals in Surface and Shallow Soils

EXPOSURE PARAMETERS	UNITS	VALUE
Target cancer risk	TR	1E-05
Target Hazard Quotient	THQ	1.0
Body weight, adult (kg)	BW	26.8
Skin Surface area , adult (cm^2/day)	SA	4084
Adherence factor (mg/cm^2)	AF	0.50
Inhalation rate m3/day	IRA	10.8
Particulate emission factor (m^3/kg)	PEF	1.3E+09
Soil ingestion - occupational (mg/d)	IRS	200
Exposure frequency (d/yr)	EF	152
Exposure duration (yr)	ED	10
Averaging time - carcinogenic (yr)	AT_C	70
Averaging time - noncarcinogenic (yr)	AT_N	10

Chemical	Toxicity Factors				VOC?	Volatilization Factor (VF) (m^3/kg)	Selected Emission Factor (m^3/kg)	Dermal Absorption Factor	Remediation Goal (risk-based) for Direct Contact with Soil (recreational assumptions) - mg/kg in soil		
	Oral Slope Factor (kg-day/mg)	Inhalation Slope Factor (kg-day/mg)	Oral RfD (mg/kg-day)	Inhalation RfD (mg/kg-day)					Carcinogenic	Noncarcinogenic	Lowest Value
Dibenz(a,h)anthracene	7.30E+00				no		1.32E+09	0.13	1.33		**1.33**
PCBs	2.00E+00	2.00E+00			no		1.32E+09	0.14	4.64		**4.64**
Aroclor-1242	2.00E+00	2.00E+00			no		1.32E+09	0.14	4.64		**4.64**
Aroclor-1248	2.00E+00	2.00E+00			no		1.32E+09	0.14	4.64		**4.64**
Aroclor-1254	2.00E+00	2.00E+00	2.00E-05		no		1.32E+09	0.14	4.64	2.65	**2.65**
Aroclor-1260	2.00E+00	2.00E+00			no		1.32E+09	0.14	4.64		**4.64**
Benzo(a)pyrene	7.30E+00				no		1.32E+09	0.13	1.33		**1.33**
Benzo(a)anthracene	7.30E-01				no		1.32E+09	0.13	13.3		**13.3**
Benzo(b)fluoranthene	7.30E-01				no		1.32E+09	0.13	13.3		**13.3**
Benzo(k)fluoranthene	7.30E-02				no		1.32E+09	0.13	133		**133**
Indeno(1,2,3-cd)pyrene	7.30E-01				no		1.32E+09	0.13	13.3		**13.3**