## Exhibit 6. Soil Dermal Contact Dose Equation

## Doses from dermal contact with soil can be calculated as follows:

## $D = (C \times A \times AF \times EF \times CF) / BW$

where,

D = dose (mg/kg/day)

C = contaminant concentration (mg/kg)

A = total soil adhered (mg)

AF = bioavailability factor (unitless)

EF = exposure factor (unitless)

CF = conversion factor (106 kg/mg)

BW = body weight (kg)

## Default Dermal Exposure Values

Age (yrs)	Body Weight (kg)		% Area Exposed		Total Soil Adhered (mg)
0–1	10	3,500	30	1,050	210
1-11	30	8,750	30	2,625	525
12-17	50	15,235	28	4,266	299
18-70	70	19,400	24	4,656	326

Total soil adhered (A) is estimated by multiplying the exposed area by the default soil adherence concentration of 0.07 mg/cm<sup>2</sup> for adults and 0.2 mg/cm<sup>2</sup> for children

Source: EPA 2001; EPA 1997