

Supplemental Materials (SM) to

Status, sources, and human health risk assessment of heavy metals in street dust from a typical industrial zone of Wuhan City

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Table S1 Classification criteria of potential ecological risks

Single element potential ecological risk coefficient (E_p^i)		Comprehensive potential ecological risk index (RI)	
≤30	Minor ecological hazard	≤80	Minor ecological hazard
30~60	Medium ecological hazard	80~160	Medium ecological hazard
60~120	Strong ecological hazard	160~320	Strong ecological hazard
120~240	Very strong ecological hazard	≥320	Very strong ecological hazard
≥240	Extremely strong ecological hazard		

Table S2 Parameter values in average daily dose calculation models of heavy metals

Parameter	Physical meaning and unit	Value	
		adult	Child
C	Heavy metal content (mg/kg)	95%UCL	95%UCL
IngR	Frequency of manual-oral intake (mg/d)	100	200
InhR	Respiratory intake frequency (m ³ /d)	12.8	7.63
CF	Unit conversion (kg/mg)	1×10 ⁻⁶	1×10 ⁻⁶
EF	Exposure frequency (d/a)	350	350
ED	Exposure duration (a)	24	6
SA	Exposed skin area (cm ²)	1701	899
SL	Adhesion coefficient of skin (mg/(cm·d) ⁻¹)	0.07	0.2
ABS	Skin absorption factor	0.001	0.001
PEF	Particulate emission factor (m ³ /kg)	1.32×10 ⁹	1.32×10 ⁹
BW	middleweight (kg)	56.8	15.9
AT	Mean total exposure time (d)	Non-carcinogenic: ED×365; carcinogenesis: 70×365	