

Supplementary Materials

Text S1 The composition of LB medium, MacConkey medium and Bengal medium

Luria-Bertani (LB) medium: 10 g tryptone, 5 g yeast extract, 10 g NaCl (de Boer, 1998).

MacConkey medium: 17 g peptone, 3 g peptone, 5 g porcine bile salt, 5 g sodium chloride, 17 g agar, 1000 mL distilled water, 10 g lactose, 10 mL 0.01% crystal violet aqueous solution, 5 mL 0.5% neutral red aqueous solution (Olsen et al., 1997).

Bengal medium: 5 g peptone, 10 g glucose, 1 g potassium dihydrogen phosphate, 0.5 g magnesium sulfate ($\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$), 20 g agar, 100 mL 1/3000 Bengal solution, 1000 mL distilled water, 0.1 g chloramphenicol (Tong and Lighthart, 1998)

Text S2 The primer sequences of 515F and 907R

The primer sequence of 515F was: GTGCCAGCMGCCGCGG.

The primer sequence of 907R was: CCGTCAATTCMTTTRAGTTT (Chen et al., 2020)

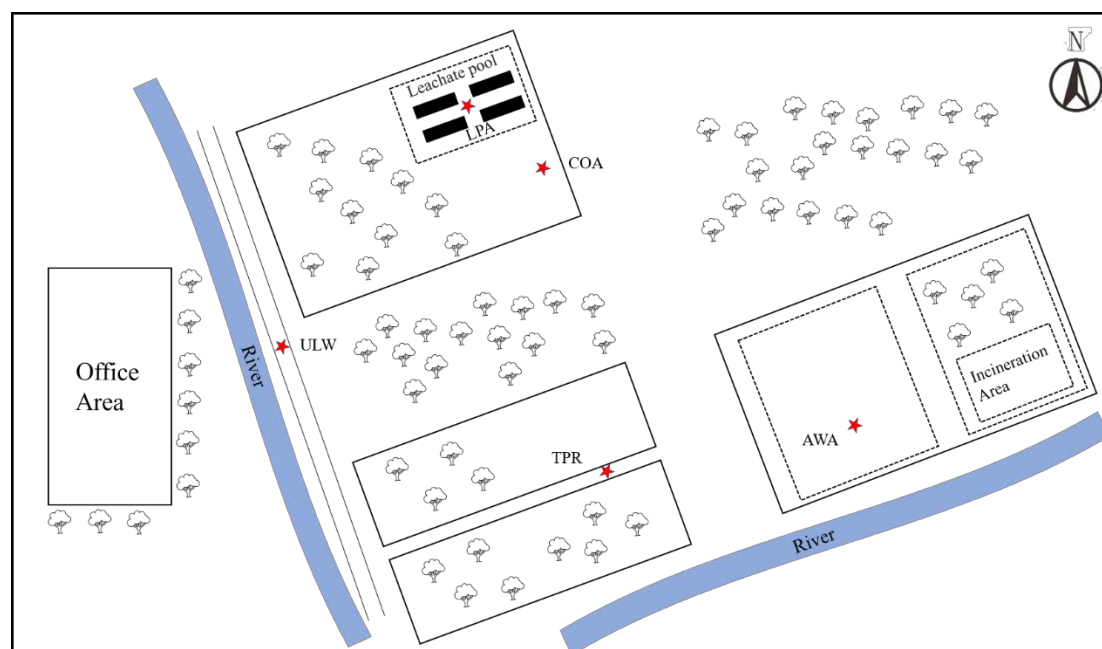


Fig. S1 Schematic diagram of sampled locations at the landfill sites (★). (AWA-active working area, ULW-unloading wharf, TPR-transportation road, COA-overage area, LPA-leachate pool area).

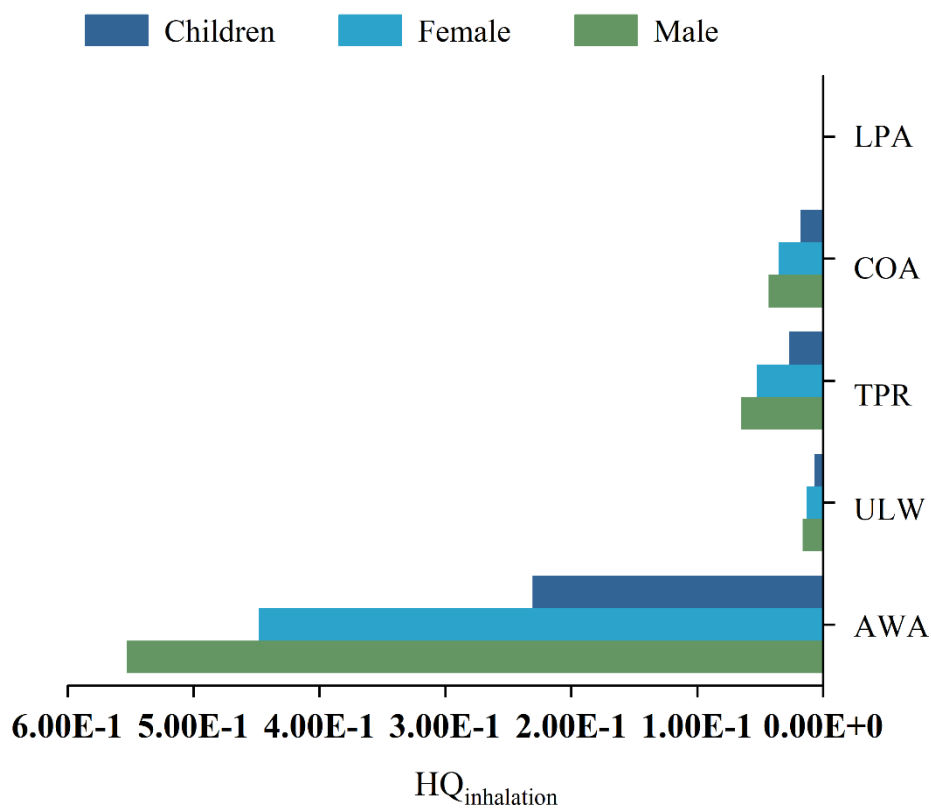


Fig. S2 HQ of pathogenic bacteria by inhalation. (AWA-active working area, ULW-unloading wharf, TPR-transportation road, COA-overage area, LPA-leachate pool area).

Table S1 Parameters used in the risk assessment.

Parameters	Units	Values		
		adult male	Adult female	children
Inhalation rate	m ³ /d	19.02	14.17	7.6
Exposure frequency	day/year	180	180	180
Exposure time	year	24	24	24
Surface area of skin contact	m ²	0.215	0.215	0.115
dermal absorption factor	m/h	0.001	0.001	0.001
Body weight	kg	62.7	54.4	15.0
Average life time	day	69.6×365	73.3×365	69.6×365

Notes: Parameters were obtained from Exposure Factors Handbook of Chinese Population (Adult), Environmental Exposure Related Activity Patterns Survey of Chinese Population (Children), and Exposure Factors Handbook: 2011 Edition.

References

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