

Supplementary Material

Table 6. Hazard Quotients (HQs) of PAHs in the water samples by ingestion.

Non-Carcinogenic PAHs	Ref Dose	KP	W 1		W 2		W 3		BH 1		BH 2	
			Children	Adults	Children	Adults	Children	Adults	Children	Adults	Children	Adults
Fluoranthene	0.04	0.36	3.3	1.3	3.3	1.3	4.0	1.8	1.5	0.8	2.3	1.0
Pyrene	0.03	0.33	3.0	1.3	3.0	1.3	5.3	2.3	2.0	1.0	2.0	1.0
HQ = Σ HI			6.3	2.6	6.3	2.6	9.3	4.1	3.5	1.8	4.7	2.0

Table 7. Hazard Quotients (HQs) of PAHs in the water samples by dermal contact

Non-Carcinogenic PAHs	Ref Dose	KP	W 1		W 2		W 3		BH 1		BH 2	
			Children	Adults	Children	Adults	Children	Adults	Children	Adults	Children	Adults
Fluoranthene	1.24×10^{-2}	0.36	7.3	4.0	2.3	4.0	9.7	4.8	4.0	1.6	5.6	3.2
Pyrene	9.30×10^{-3}	0.33	7.5	3.2	7.5	3.2	11.8	6.5	4.2	2.2	4.3	2.2
HQ = Σ HI			14.8	7.2	9.8	7.2	21.5	9.0	8.2	3.8	9.9	5.4

Table 8. Potential carcinogenic risks for adults and children in well and borehole water from ingestion

Carcinogenic PAHs	CSF	TEF	KP	ILCR							
				W 1		W 2		W 3		BH 1	
				Children	Adults	Children	Adults	Children	Adults	Children	Adults
Chrysene	0.073	0.01	0.81	7.44×10^{-3}	1.85×10^{-6}	8.0×10^{-7}	1.48×10^{-6}	8.0×10^{-7}	1.48×10^{-6}	8.0×10^{-7}	1.48×10^{-6}
Benz(a) anthracene	0.73	0.1	0.81	8.03×10^{-4}	1.46×10^{-3}	1.0×10^{-3}	1.83×10^{-3}	6.0×10^{-4}	1.11×10^{-3}	4.0×10^{-4}	7.4×10^{-4}
Benzo(b)fluoranthene	0.73	0.1	1.2	ND	ND	ND	ND	4.0×10^{-4}	7.37×10^{-4}	ND	ND
RI = Σ ILCR				8.24×10^{-3}	1.46×10^{-3}	1.0×10^{-3}	1.83×10^{-3}	1.0×10^{-3}	1.85×10^{-4}	4.0×10^{-4}	7.4×10^{-4}

Table 9. Potential carcinogenic risks for adults and children in well and borehole water from dermal contact

Carcinogenic PAHs	CSF	TEF	KP	ILCR							
				W 1		W 2		W 3		BH 1	
				Children	Adults	Children	Adults	Children	Adults	Children	Adults
Chrysene	0.073	0.01	0.81	1.68×10^{-6}	3.69×10^{-6}	1.36×10^{-6}	2.95×10^{-6}	1.36×10^{-6}	2.95×10^{-6}	1.36×10^{-6}	2.95×10^{-6}
Benz(a) anthracene	0.73	0.1	0.81	1.31×10^{-3}	2.92×10^{-3}	1.7×10^{-3}	3.69×10^{-3}	1.02×10^{-3}	2.95×10^{-6}	6.81×10^{-4}	1.48×10^{-3}
Benzo(b)fluoranthene	0.73	0.1	1.2	ND	ND	ND	ND	1×10^{-3}	2.18×10^{-3}	ND	ND
RI = Σ ILCR				1.31×10^{-3}	2.92×10^{-3}	1.7×10^{-3}	3.69×10^{-3}	2.02×10^{-3}	4.4×10^{-3}	6.81×10^{-4}	1.48×10^{-3}