Table 4‑4. Studies of 6PPD and 6PPD‑q concentrations in groundwater

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Location | Information | Concentration (ng/L) | Lab Instrumentation | Detection Limit |
| [Guangzhou, China](https://doi.org/10.1016/j.envres.2022.114721)  (Zhang et al. 2023) | Surface-water (n=19), groundwater (n=43), and stormwater (n=10) samples were collected along the Liuxi River and analyzed for p-phenylenediamines, including 6PPD and 6PPD‑q. Suspended particles from stormwater samples were also analyzed. As expected, 6PPD was only detected in the particle phase. | The concentrations of 6PPD and 6PPD‑q in were found to be [median (range)]:  6PPD: Groundwater: ND  6PPD‑q: Groundwater: 0.11 (ND–0.70) | UHPLC-MS/MS | 6PPD: MDL: 0.048 ng/L  MQL: 0.160 ng/L  6PPD‑q:  MDL: 0.029 ng/L  MQL: 0.098 ng/L |

Notes: MDL=method detection limit, MQL=method quantification limit, ND=nondetect, ng/L=nanogram per liter, UHPLC-MS/MS=ultra-high–performance liquid chromatography–tandem mass spectrometry

**References**

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