

OCCURRENCE AND LEACHING OF POLYCYCLIC AROMATIC HYDROCARBONS (PAH) GENERATED AT STEELWORKS

I. Twardowska¹, M. Włodarczyk-Makula²

¹ Polish Academy of Sciences, Institute of Environmental Engineering, Zabrze

² Technical University of Czestochowa, Faculty of Civil Engineering, Laboratory of Wastewater Technology and Waste Utilization, Czestochowa, Poland

SUMMARY

On the background of interrelations between 6 PAHs concentrations in metallurgical solid wastes and dynamics of their transformations and leaching by infiltrating precipitation water, studied on column experiments, the applicability of fluoranthene as an indicator of pollution potential from carcinogenic PAHs has been critically discussed.

Key words: metallurgical solid wastes, polycyclic aromatic hydrocarbons, leaching, environmental impact, water pollution

Address for correspondence: I. Twardowska, Polish Academy of Sciences, Institute of Environmental Engineering, 34 M. Skłodowska-Curie St., 41-819 Zabrze, Poland