



DDT and its Metabolites in Surface Waters of Drini and Buna River Basins in Albania

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Abstract: Organochlorinated compounds such as PCBs and DDTs are a class of widespread organic contaminants which are ubiquitous in the environment. Surface water contamination from them is related to human activity and has possible health consequences. Drini and Buna are two important rivers in northern Albania that form a unique, combined basin that extends in an important area. The evaluation of levels of DDT and its metabolites in surface waters of Drini and Buna River basins in Albanian territory. A number of organochlorine pesticides were detected in waters of Drini River in the time span 2012 – 2013. Samples of surface waters at were taken from 10 sites in 2 different seasons. Both the liquid – liquid (L/L) water extraction and gas chromatography (GC) with micro electron-capture detector (μ ECD) were applied for pesticide residue analyze. DDTs were quantified and the total concentration of them (Σ DDTs) ranged from 72.4-401 ng/l.

Keywords: *DDTs, OCPs, μ ECD.*

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