

Abstract:

This bachelor thesis provides an overview about the hazardous waste. At the beginning there will be discussed the legislative measures related to hazardous waste management and international cooperation. Following three chapters are dedicated to these hazardous wastes: asbestos waste, sludge from wastewater treatment and ashes from incineration waste. Today forbidden material asbestos occurs in insulation of the old public and industrial buildings. It is essential to prevent release of asbestos fibres. Further currently was proposed several promising processes for treatment of sewage sludge and ashes from incineration waste that management in the Czech Republic overlooks. Presented methods emphasize degradation of hazardous properties from the concerned waste. Thesis shows current occurrence of waste in environment. Main objective is assessment of potential risks for human health or environmental components, consequent from hazardous waste and draw implications for the most effective treatment. A conclusion of literature research summarized advice for treatment of these waste.

Key words: hazardous waste, hazardous properties, asbestos containing waste, sludge from wastewater treatment, sewage sludge, waste incineration, bottom and fly ash, vitrification, heavy metals.