

8. Study on Processing Approach of Mucks Containing Heavy Metals of Natural Origins

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After the enactment of the Soil Contamination Countermeasures Law (February 2003), which aims to control soil pollution by human activities, cases are increasing in which certain measures are required to prevent elution from excavation mucks, which are produced during construction works and contain heavy metals of natural origins. Instead of the conventional method of confining the metals using lining sheets, a new method that involves preventing elution of heavy metals by insolubilization and adsorption was developed, and the performances of the insolubilizers and adsorbents were evaluated to accumulate knowledge. Because elution tests for judging whether measures for preventing elution of heavy metals are necessary or not require a long time, this paper also describes the results of an element test conducted to simplify (quicken) judgments

Key words : heavy metals, natural origin, rock, elution