

Inter-laboratory Comparison of Leaching Methods

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ABSTRACT

There is a recognized need for coal ash producers, handlers, and regulators to have a useful and effective characterization tool for leaching behavior of coal ashes. To address this need, an inter-laboratory study has been undertaken by five voluntary laboratories to compare four leaching methods. The participants are the National Energy Technology Laboratory (NETL), the University of North Dakota Energy & Environmental Research Center (UND EERC), the University of the Western Cape Department of Chemistry, Virginia Tech Department of Crop and Soil Environmental Sciences, and the West Virginia Water Research Institute National Mine Land Reclamation Center (NMLRC/WVU). The methods being compared are those developed at NETL, NMLRC/WVU, UND EERC, and the 3-tier procedure published by Kosson, van der Sloot, Sanchez, and Garrabrants (2002, Environ Eng Sci, Vol. 19, No. 3, 159-204). A comparison of the results from applying the four leaching methods to coal combustion by-products has been summarized.

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