

# **Chemical Attenuation of Arsenic Species by Soils from Power Plant Sites**

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**KEYWORDS:** arsenic species, sorption on soils, chemical attenuation coefficients

## **ABSTRACT**

Several soil samples were collected from three power plant sites to conduct laboratory studies to develop chemical attenuation coefficients for arsenic (III) and arsenic (V) species. Several laboratory batch tests were completed to obtain adsorption (chemical attenuation) results including assessment of enhancement of adsorption by the presence of calcium and reduction of adsorption by sulfate. This paper will present results on the adsorption/chemical attenuation characteristics of the arsenic (III) and arsenic (V) species and share the observed correlations with the soil properties that perhaps control adsorption of the two arsenic species to varying degree. The paper will also share the results on variability and range of attenuation of arsenic species by soils within a power plant site and between different sites.

Submitted for consideration in the 2005 World of Coal Ash, April 11-15, 2005, Lexington, Kentucky, USA.