

Characterization of Field Leachates at Coal Combustion Product Management Sites

Arsenic, Selenium, Chromium, and Mercury
Speciation

1012578

Final Report, November 2006

Cosponsor
U.S. Department of Energy
National Energy Technology Laboratory
626 Cochran's Mill Road
PO Box 10940, MS 922-273C
Pittsburgh, PA 15236-0940

Project Manager
R. Patton

EPRI Project Manager
K. Ladwig

Comparison of Speciation to Site and Plant Attributes

For ash leachate samples with greater than 80 percent species recovery (20 samples), the percentage of Cr(III) ranged from 0 to 100 percent, with a median of 2 percent and the range of Cr(VI) was 0 to 100 percent with a median of 98 percent. For FGD leachate (3 samples), Cr(III) ranged from 0 to 3 percent with a median of 0 percent and Cr(VI) ranged from 97 to 100 percent with a median of 100 percent (Figure 5-8).

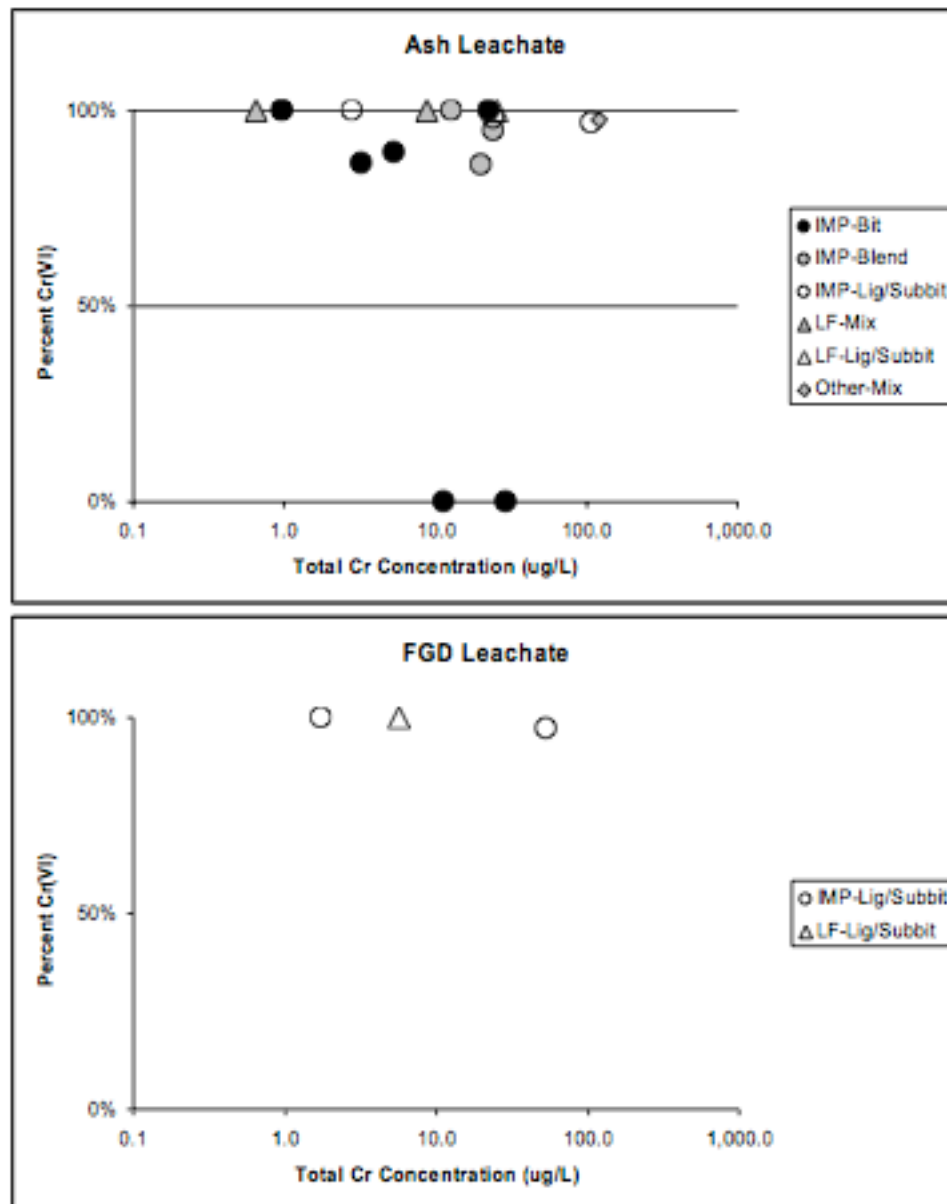


Figure 5-8
Percent Cr(VI) versus Total Cr Concentration

Characterization of Field Leachates at Coal Combustion Product Management Sites

Arsenic, Selenium, Chromium, and Mercury Speciation

Technical Report