Preliminary testing during FY10 has shown that a subsurface sandy sediment had a batch Ra $K_d$ of 35 and Sr $K_d$ of 5 mL/g; a subsurface clayey sediment had a Ra $K_d$ of 150 and a Sr $K_d$ of 35 mL/g. These results and others will be issued in a SRNL report in September 2010.