

Figure VII-1
Alkaline Uranium Leach Chemistry In The Aquifer



Equation (1): In an aqueous environment, the oxidized uranium will form a soluble uranyl (UO_2^{+2}) cation.

Equation (2): Sodium bicarbonate and carbon dioxide gas is introduced into the injection lixiviant. The predominant uranyl dicarbonate complex forms and stabilizes uranyl ions in solution.