

ACCELERATED ANAEROBIC BIOREMEDIATION (AAB) FOR GROUNDWATER: AN OVERVIEW

Chuck Coyle
U.S. Army Corps of Engineers Hazardous, Toxic and
Radioactive Waste Center of Expertise
Omaha, NE 68144

Several different types of groundwater contaminants have been shown to be biodegradable under anoxic or anaerobic conditions, including nitrate, perchlorate, RDX, and chlorinated solvents. Organic substrate (i.e., electron donor) formulations that have been tested can be divided into the following categories: water soluble, slow-release liquid formulations (including viscous liquids and oils), and solid-phase materials. Factors to consider when evaluating a site for AAB will be summarized.