

New *in situ* remediation process

Arcadis Geraghty and Miller (AGM), an environmental and engineering services consulting company in the United States, has obtained a patent for its new Anaerobic Reactive Zones technology. In this process, sulphates and carbohydrates are injected into the subsurface to degrade or precipitate contaminants in groundwater.

The novel technology is an *in situ* method and system for reductive dechlorination, precipitation of chromium and heavy metals, and microbial denitrification. Injection of carbohydrates and sulphates into the contaminated saturated zone forms anaerobic reactive zones, which precipitate and filter out dissolved heavy metals as metallic sulphides, degrade nitrates into nitrogen gas, reduce chlorinated hydrocarbons to ethene, and precipitate and filter out chromium. The company has reported that out of 85 sites treated using the new technology, about ten sites have reached clean closure within a 1-3 year time frame. *Contact: Arcadis Geraghty and Miller, the United States. Website: <http://www.gmgw.com>.*