



MICROBIAL GEOCHEMICAL EVALUATION

DRY CLEANING FACILITY INDIANAPOLIS, INDIANA

Client: Private Consulting Firm

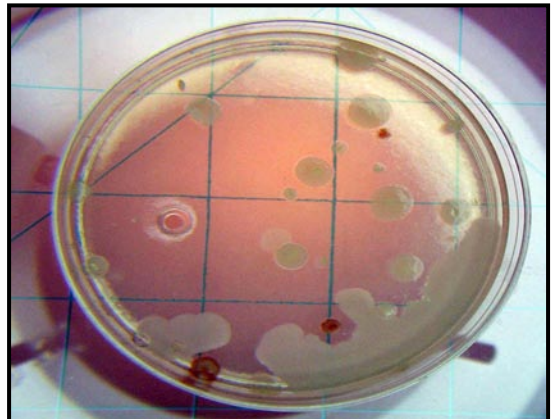
Contaminants: PCE

Impacted Matrix: Ground Water and Saturated Soils

Scope of Work: Field and Laboratory Evaluation of Ground Water Geochemical Markers Indicative of Microbiological Reductive Dechlorination

Project Specifics: SESCOIENCES was contracted to assess whether or not site conditions were favorable for supporting microbial biodegradation of PCE via reductive dechlorination.

SESCIENCES provided field and laboratory evaluation of site-specific electron accepting constituents, microbial respiration by-products, and ground water aquifer markers:



Dissolved Oxygen (DO), Oxidation-Reduction Potential (ORP), Specific Conductance, pH, Temperature, Turbidity, Alkalinity (as CaCO₃), Ferrous Iron, Nitrate, Sulfate, Sulfide, Total Organic Carbon, Carbon Dioxide, Carbon Monoxide, Methane, Nitrogen, Oxygen.

Geochemical evaluation results were critical in the decision making of whether or not reductive dechlorination was a feasible remedial alternative at this site.

Field and testing activities were conducted in accordance with US EPA, Air Force Center for Environmental Excellence (AFCEE), and standard industry protocols.

Current Site Status: Evaluation of Remedial Options