

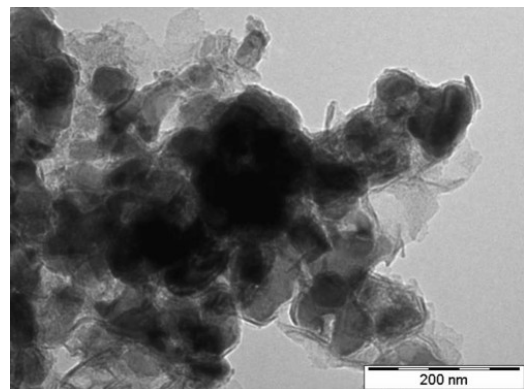
## ISCR Feasibility Lab Test

In Situ Chemical Reduction (ISCR) is an environmental remediation technology used for soil and/or groundwater remediation, in order to reduce the concentrations of the target environmental contaminants to acceptable levels. Zero valent metals, especially iron, are usually used as reductive additives for the chemical reduction. Other reductants are usually based on various sulfur compounds (e.g. polysulfide; thiosulfate; iron sulfate).

ISCR is a relatively environmental friendly (compared to ISCO) remediation technology capable of removing/sequestering both organic (mainly chlorinated hydrocarbons) and inorganic contaminants in high oxidation states from the underground. Reactions of contaminants with ISCR agents include their reduction either to harmless final products or to their non-toxic forms (e.g., in the case of chromium).

DEKONTA offers a range of laboratory testing services to evaluate the effectiveness of the ISCR technology:

- Tests of different types of ISCR agents;
- Kinetic tests for establishing the efficiency of ISCR;
- Evaluation of ISCR agent concentrations suitable for field application (concentration tests);
- Tests with different types of contaminants (chlorinated hydrocarbons, nitroaromatics, metals etc.);
- Research and development in the field of nZVI application.



DEKONTA also performs detection of nano/micro ZVI in a drill core (it has to be provided in a plastic liner). The method is based on ferromagnetic properties of ZVI.



Lab test duration: 2 - 4 weeks  
Price of lab test: Available on request  
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