

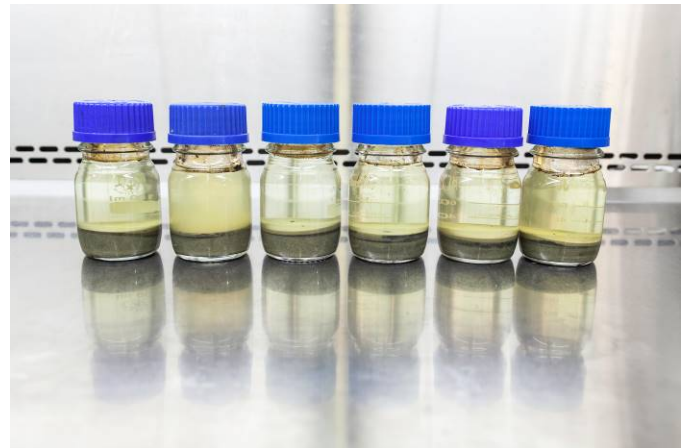
ISCO Feasibility Lab Test

In Situ Chemical Oxidation (ISCO) is, generally, based on an oxidation-reduction reaction, where the oxidizing agent is reduced and the contaminant is oxidized. Oxidation leads to the destruction of the contaminant or its conversion into a harmless or less toxic compound.

DEKONTA offers a wide range of laboratory testing services to evaluate the effectiveness of the ISCO technology, including a proposal of an appropriate oxidizing agent and its consumption to optimize the remediation system for field application.

Different types of oxidizing agents can be tested:

- Permanganate;
- Persulfate with different kinds of activation (iron, alkaline, heat or hydrogen peroxide activation);
- Hydrogen peroxide / Fenton's reagent;
- Combination of oxidizing agents;
- Commercially available products.



DEKONTA performs batch or column tests to simulate chemical oxidation of various types of contaminants (BTEX, petroleum hydrocarbons, CVOCs, MTBE and others), to evaluate the requirements that help in proposing the technology design:

- Suitability of the ISCO technology;
- NOD and SOD determination;
- Efficiency of chemical oxidation;
- The oxidant concentration for in-situ application.



Lab test duration: Batch test usually takes 4-5 weeks

Price of lab test: Available on request

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