

New automotive park for AUDI/VW by rapid remediation Brussels



A site in Brussels purchased by car manufacturer Volkswagen was polluted with a high concentration of chlorinated hydrocarbons. The contamination was a legacy from the past caused by the activities of a former chemical cleaners. The polluted volume was more than 15,000 m³ soil and the maximum concentration of chlorinated solvents in the groundwater exceeded 600,000 µg/l. Fairly pure product was found in various test tubes. The site had to be remediated following a strict plan in order to make it possible to construct the new Volkswagen/AUDI distribution centre in Brussels.

In-Situ Technieken carried out a pilot remediation using ISCO before the full-scale remediation. During the test remediation 10 tons of hydrogen peroxide was injected through twelve injection filters. After the evaluation reports had been discussed with the client and the authorities approved, In-Situ Technieken cleaned the whole site on a 'Design & Construct' contract.

From pilot to full-scale remediation

More than 250 injectors were installed at a depth of 2 to 18 metres below ground level. In-Situ Technieken prepared an effective injection plan after sampling and analyzing all the injectors. In total more than 80,000 litres of concentrated hydrogen peroxide was injected in a period of ten days by using three installations simultaneously.

Result

The remediation objective for chlorinated solvents was achieved. A total volume of more than 15,000 m³ was cleaned during a 16-week period. The very high concentrations of chlorinated hydrocarbons were lowered. Natural decomposition in the following period will lead to further reduction in the polluted mass. The authorities have given their approval so that the construction of the automotive park can commence according to plan.

In-Situ Technieken has state-of-the-art knowledge of innovative remediation techniques at its disposal for treating contaminated soils and groundwater. Many of these techniques have been developed within the company itself and have been patented. We use an own laboratory and a large library and work closely with the scientific world in order to continually improve our innovative techniques. We can almost always offer you a suitable solution for any contamination. In-Situ Technieken - a trade name of ARCADIS - is fully certified for carrying out soil remediation projects and is active worldwide.

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