



BioLogix CL Bioremediation of Industrial Solvents in Soil and Ground Water

Case Study :

Industrial Manufacturing Site, Illinois

Remediation Summary

Leaks from an aboveground solvent tank impacted soil and ground water quality at a manufacturing site in Illinois. The impact was found under the adjoining building as well as the area near the tank. The soil and ground water were treated in situ with BioLogix CL® bioremediation microbes. Through cometabolism BioLogix CL® microbes reduced the contaminant concentrations to acceptable levels in less than one year.



Implementation and Results

Soil Type: Silty clay till

Treatment Area: 15,000 sq. ft.

Unsaturated soil thickness: 16 ft.

Saturated aquifer thickness: 5 ft.

Treatment: Two applications, initial treatment with 13 units of BioLogix CL® and follow up treatment with 5 units.

Product Cost: \$30,000

Contaminants	Soil Results (mg/Kg)		Ground Water Results (mg/L)	
	Pre-Treatment	Post-Treatment	Pre-Treatment	Post-Treatment
PCE	41.8	1.69	5.59	0.006
TCE	4,670	632	15.6	0.026
Cis 1,2-DCE	171	56.6	7.43	0.029
Vinyl Chloride	BDL	BDL	0.095	0.013

Conclusions

BioLogix CL® bioremediation quickly and cost-effectively reduced the contaminant concentrations to acceptable levels. Through cometabolism the parent and daughter products were removed simultaneously. BioLogix CL® bioaugmentation accelerated the site remediation and reduced uncertainty by applying the right microbes where they were needed.