

## CASE STUDY

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### LAND CONTAMINATION REMEDIATION



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**DEEP SOIL MIXING LTD**

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Deep Soil Mixing Ltd commenced work on the installation of a 400 metre long by up to 14.5 metres deep cut off wall alongside a major UK River. The installation of this cut off wall is to stop the migration of contaminants which were leaching through the ground from a former industrial processing plant and escaping into a major tidal river.

Deep Soil Mixing Ltd was commissioned to carry out trials at the site to ensure the most robust solution was found and the specified permeability values were achieved. The company was tasked with providing a solution that would prevent leachate from the site and thus ensuring the migration of contaminants from the site was halted.

As a result of the trials which took over 4 weeks to complete a specially developed mix and a blend of binders was used to create the correct specification and thus prevent further migration of the contaminants from the original factory migrating into the river.

Deep Soil Mixing firstly undertook a site investigation where several samples were taken and tested in the Deep Soil Mixing laboratory to see which blend of binders would give a satisfactory outcome when mixed with the in-situ ground material.

The initial lab testing and field trials established that the soils encountered at the site would respond to mixing with a prescribed blend of binder to achieve the required strength for future development of the site.

The system being used by Deep Soil Mixing Ltd for this project was a twin auger system on an ABI rig. A computer controlled batching plant mixes the correct binder blend which is then fed into the ground using the twin auger system. The solution Deep Soil Mixing implemented provides the permeability factor required and the cut off wall will form a barrier to the migration of leachates whilst ground water flows off freely.

The project took 16 weeks to install the cut off wall and it has meant a brownfield site can be brought back into use and more importantly pollutants will be stopped from entering the River.

Deep Soil Mixing Ltd is pioneering new soil mixing techniques around the UK. Using Deep Soil Mixing's innovative soil mixing and soil stabilisation technology the company is able to effectively re-engineer most poor quality or contaminated ground, and all at a reduced expense, time, and using environmentally friendly solutions.

## FIND OUT MORE

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