SUSTAINABLE REMEDIATION

case study

This 5ha site housed a former chemical manufacturing facility which was to be demolished and remediated to allow the construction of a residential development.

In situ treatment of the groundwater beneath the site was undertaken initially using pump and treat methods.

The extracted groundwater being treated by air stripping and GAC filtration.

Following the pump and treat process the controlled introduction of hydrogen release compounds was undertaken to stimulate the degradation of the residual contaminants. The overall program for the project was nine months..

Client

Design and build contractor

Site

Former textile finishing facility, Ballymena, Northern Ireland

Problem

Soils and groundwater contaminated with hydrocarbons and chlorinated solvents

Technologies utilised

Insitu treatment of groundwater by pump and treat, air stripping, GAC and hydrogen release compounds

Remediation criteria

Suite of soil and groundwater criteria set by independent consultant and Environment Agency

Validation

Validated by independent consultant on completion of remedial works

mel environmental solutions

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