



Project Value: £40m

Client: Integrated Bradford

Contractor: Educo

Architect: BDP

The Project:

The project had to prove the viability of carrying out any remediation of petroleum hydrocarbons simultaneous to the construction of a new school taking place. The main area of concern meant mitigating the potential draw down of contamination through the soils through pathways induced by using a driven pile foundation solution for the development. This was successfully proven with the Environment Agency who granted permission for the remediation to be carried out in conjunction with the development plans.

The remediation of light non aqueous phased liquid in the form of predominantly total petroleum hydrocarbons had to be undertaken. A source zone of approximately 1800m² had been delineated

and dissolved phase contamination was proven to be evident emanating towards the River Aire.

The source zone was remediated using source removal by Dual Phase Vacuum Extraction (DPVE). The dissolved phase contamination down gradient of the source, within the water table, was treated by chemical oxidation within a series of extraction wells on the site and via a series of buried pipes beneath the proposed school building footprint. A total of 150,000m³ of free product was extracted throughout the entirety of the job.

Following groundwater monitoring over a period of two years the implemented remediation strategy for the site was proven to be a success with concentrations of hydrocarbons falling below the set target level. This allowed the Environment Agency to sign off the remediation of the site at the same time as the new school building was complete and ready for occupation.