

Pollution Response – Clarence Mill Hydrocarbon Remediation



Client
NHBC
Cost
£6,500

Location
Clarence Mill, Bollington
Program
6 Weeks

Hydrocarbon Affected
Areas



De-bonded
Ceiling



The NHBC contacted LKPR with a situation within a recently renovated mill which had been turned in to apartments 4 years previously.

A number of apartments within the property were experiencing oil seeping through the brick vaulted ceilings and walls. This had caused the plaster skim to de-bond from the brick vaulted ceiling and presented a vapour risk to the residents of the property.

On investigation it was apparent that the apartment above the affected property was previously used for housing diesel engines which had leaked oil over many decades when the building was used as a textile mill.

The oil had fallen onto the porous brick floor which had in turn leached through into the vaulted ceiling below.

LKPR began by clearing the apartment and protecting the floors, followed by removal of all remaining plaster and bonding that was used during construction to expose the bare brick.

Injection holes were then installed to the entire vaulted ceiling to a depth of 100mm which would allow a surfactant to be impregnated within the brick.

Surfactants were also sprayed onto the face of the brick to break down the hydrocarbon, in addition, micro-organisms were also sprayed onto the brickwork to actually digest the contamination.

Within a 6 week period the micro-organisms had digested the vast majority of the Hydrocarbon which allowed a special epoxy to be applied to the ceiling. This epoxy acted as a tank to the ceiling with an internal drain catching any future migration of oil.

Within six weeks the project was complete and the resident returned to a completed apartment.