



Project Data

Region: West Bromwich, UK

Client: MarCity Developments

Involved Units: Eneotech Environmental Ltd

Execution Time: January 2008 – August 2008

Contract Value: £1,600,000

Work Performed

Remediation of 34,000 tonnes of tar and hydrocarbon impacted soils by use of thermal desorption technology



Thermal Desorption of Tar Impacted Soil - West Bromwich, UK

Soil Remediation Services

Contaminated Soils and Groundwater

Thermal Desorption of Tar Impacted Soil - West Bromwich, UK

Eneotech Environmental Ltd (Eneotech) has successfully completed the remediation of 34,000 tonnes of hydrocarbon contaminated soils using mobile Thermal Desorption Technology. The remedial works enabled the construction of 150 new homes on land previously considered unfit for residential housing.

The former chemical and bitumen works site occupied an area of 6 acres and was left with soils containing elevated levels of hydrocarbons averaging in excess of 45,000 mg/kg. After the remedial works by Eneotech Environmental, the TPH levels within the soils were typically reduced by up to 98% even though the target clean up criteria stated to be below 5,000 mg/kg.

All soils remained on site during the works and were re-used safely on the new residential development reducing the requirement and cost associated with landfill and vastly reducing on and off site vehicle movements within a densely populated residential area of the Black Country.

One of the major benefits to the client by using the remedial technique of Thermal Desorption was the vastly reduced remediation time compared to traditional biological methods. The certainty to which the remedial target could be met and the ability for the development to run alongside the remedial works were also major factors influencing the choice of this remedial technique. Thermal Desorption technology is capable of remediating 40,000 t of contaminated soils in 6 months compared to bioremediation techniques which could take over 2 years to complete with little certainty in achieving the remedial target in these extremes.

The use of Recycled Fuel Oil (RFO) as the primary fuel and the recycling of all water including rainwater run off contributed to a sustainable and carbon footprint friendly remediation project. The plant was mobilised and demobilised after the project in less than a month.

As landfilling of contaminated soils becomes an increasingly more expensive option for developers, on site Thermal Desorption technology becomes an ever more viable and cost effective method of decontaminating heavily contaminated sites which contain organic chemicals such as pesticides, heavy fuel oils and even PCB's.

Eneotech Environmental Ltd. provides a wide range of environmental services to enable the redevelopment of contaminated land. We offer a full range of technologies and services including hazardous waste management, thermal desorption, bioremediation (windrow turning and ex situ static methods), soil vapour extraction, air spraying, soil washing and stabilisation and solidification.

Eneotech Environmental Ltd is backed by decades of experience and interdisciplinary skills amassed by the Eneotech group of companies.

Our company Eneotech Environmental Ltd ranks as one of the most highly skilled and dependable services providers specialising in site rehabilitation, waste disposal and service platform preparation.

Head Office

Eneotech Environmental Ltd.
10 Station Road
Chertsey
Surrey
KT16 8BE
Tel: +44 (0)1932 577290
Fax: +44 (0)1932 571917

For more information email:
info@eneotech.co.uk

www.environmental.eneotech.co.uk

Northern Regional Office

Eneotech Environmental Ltd.
7400 Daresbury Park
Daresbury
Warrington
WA4 4BS
Tel: +44 (0) 1928 737500
Fax: +44 (0) 1928 737699

Scotland Office

Eneotech Environmental Ltd.
Lochside House,
3 Lochside Way,
Edinburgh
EH12 9DT
Tel: +44 (0)131 4522047
Fax: +44 (0)131 4522518