



Rapid Decontamination of hydro-carbon and heavy metal contaminated Soils



Client: Harrow City Council  
Site: Headstone Manor, Harrow  
Contract Value: £95,000  
Technology Used: Regener8 – Reduction treatment of heavy metals.  
Bio-accelerator – Rapid bioremediation of hydrocarbons.



Dunton Environmental utilizes Bio-accelerator and Regener8 technology to rapidly treat hydrocarbon contaminated waste sludge to enable its safe reuse on site within a public landscaped area.



# Challenges

- During the maintenance and expansion of the Harrow Council network approximately **3,000 tonnes of contaminated sludge** was dredged and deposited in a public park area.
- Contamination testing identified that the waste was **contaminated with elevated levels of benzo-a-pyrene and other PAHs** as well as **heavy metal lead**.
- Furthermore the soils had remained in a **saturated condition** and any proposed reuse of the material would require converting it into a more stable material.
- The **estimated costs of disposal of the hazardous waste** off site to landfill were **approximately £ 200,000.00**.

## Our Solution

Dunton Environmental carried out further laboratory testing and designed a Remediation Strategy to enable the treatment of the waste sludge to a level that would allow its safe reuse on site within the public landscaped area.

Dunton employed their bio-accelerator technology to rapidly reduce the hydrocarbon contamination and their regener8 technology to eliminate the lead contamination.

The proposals were accepted and agreed by the Environmental Agency and all the soils were tested and validated before reuse.

Following treatment Dunton utilised their **Cementex** technology to reduce the moisture content within the soils to produce a more stable material which could be spread and levelled safely on site.



## Results

