

# Rotary Kiln

## R-04-03 / AVILES

ON SITE THERMAL DESORPTION OF A PAH  
CONTAMINATED SITE IN AVILES (ASTURIAS - SPAIN)

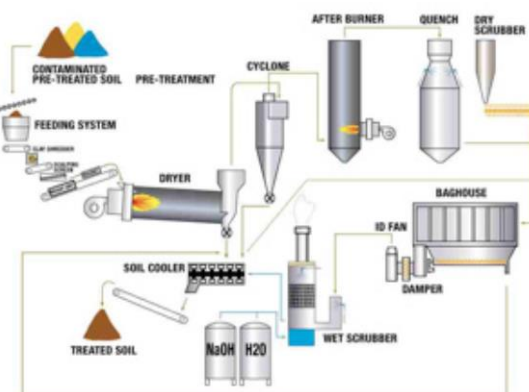
### Context

The clean-up site was formerly used by Aceralia (Steel plant) in Avilès and the soil to treat came from the various locations within the steel factory that generated contaminated soil. The clean-up was funded by the Infoinvest (Spanish Governmental agency in charge of industrial redevelopment of contaminated sites). The soil was already excavated by the client. Deep Green has contracted the sieving and the thermal desorption part of the contract for the PAH contaminated soil.



### Equipment

The project started with a DRAGON 35 unit. Stack tests were successfully performed on the unit. The unit was equipped with continuous emissions monitoring



### Treatment/Clean Up Targets

The soil to treat had PAH concentrations varying from 500ppm up to 23,000 ppm. TPH content was moderate at an average of 4,000 ppm. Clean-up levels were set at 20 ppm total PAH and 50 ppm TPH. All clean-up standards for clean soil were met.



This project was designed and executed by the current Haemers technologies team, when they worked within the legal entity L&C SA (formerly Deep Green SA), which belongs to the Haemers technologies group.

## Key facts

**Contaminants**  
PAH

**Max. Concentration**  
23000

**Volume**  
13750

**Tonnage**  
22000

**Number of Heating Tubes**

**Temperature Target**

**Heating duration**

**Treatment Targets**  
20

**Location**

**Future Use**

**Client**

**Consultant**

**Date**  
2004

