

HAMPOLE QUARRY CASE STUDY

SUMMARY

For the last 12 months Credential Automotive and the Environment Agency have been working to reduce the potential environmental pollution risks from a tyre dump situated at Hampole Quarry near Doncaster. To date, Credential Automotive and the Environment Agency have removed nearly 8,000 tonnes of waste tyres (equating to some 11.2 million car tyres) from this Quarry with the majority being recycled into engineered landfill drainage blankets.

BACKGROUND

Originally quarried for Limestone, Hampole Quarry had been used as an illegal tyre dump for nearly 30 years. In February 2006, a decision was made by the Environment Agency and Doncaster Council to give the Quarry contaminated land status to enable its clean up. Following a tendering process, Credential Automtotive were awarded the contract based upon their track record in the recycled waste tyre industry. Original calculations estimated that the quarry contained approximately 8,500 tonnes of illegally dumped tyres. Following the initial clearance, further site investigations indicate the final figure could be as much as 24,000 tonnes equating to over 33.6 million car tyres).

During the early stages of the clearance operations, recycling levels were lower than they would be due to the age and discolouration of the tyres. However Credential did manage to recycle 17% for uses such as the manufacture of playground surfaces and over 65% were utilised as both an Aggregate Replacement for engineered Landfill drainage systems and alternatives to fossil fuels. Only 18% were landfilled. With the Landfill Directive now fully implemented any further tyres removed would have to be fully recovered.

At present the project is on hold as the original budget phase has been completed and the Environment Agency are in the process of reviewing plans and priorities for the forthcoming financial year.

ACHIEVEMENTS

- Diverted to date over 6,000 tonnes of waste tyres from landfill.
- Prevented the quarrying of over 5,000 tonnes of aggregates and the use of over 130,000 litres of diesel associated with haulage and transportation of quarried materials.
- Saved over 30 tonnes of Carbon Dioxide from being released into the environment.
- Restoration and enhancement of the natural beauty and ecology of the region and elimination of significant ongoing environmental contaminated land risks.

