

Langton Colliery Spoil Case Study

July 2013 - May 2014

How green is my spoil tip?



RECYCLING WASTES AND
BY PRODUCTS FOR
USE IN AGRICULTURE
AND LAND RESTORATION

Utilising waste materials to restore brownfield land for long-term environmental gain

The former Langton Colliery Spoil is highly visible to travellers in both directions on the M1 motorway just south of junction 28 in Nottinghamshire. Having been dug over to remove coal 4R was asked to restore the soils on site turning it from black to green.



BEFORE RESTORATION July 2013



AFTER RESTORATION May 2014

See over for details →

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If you've got the spoil, we can make the soil

The tip was washed by ReCycoal Ltd over a three year period which involved moving the whole tip and re-shaping it. With little soil originally on the site **4R Recycling was asked to reduce background acidity, improve organic matter and nutrient levels, then seed the former tip in accordance with tight planning requirements** to create both agricultural and amenity land.

Satisfying the environment, local council, environment agency, local residents and the site owner

Working alongside ReCycoal Ltd our consultancy team helped draw up a restoration scheme that used inorganic and organic "waste" materials that satisfied the requirements of the county council to improve the site. **Our team applied for a deployment to their Environmental Permit from the Environment Agency to allow the use of the specified "waste" materials in the project.**

This deployment was granted and the importation of materials commenced using a variety of different lorry types, including over 23,000 tonnes of materials that were stockpiled, spread and incorporated into the existing surface in different areas depending upon the end use.



Following the completion of application heavy duty agricultural equipment was deployed to plough, create a seed bed and sow the various seed mixes required. Odour is always an issue when using organic materials to create soils on such sites, this was managed well by our Operations team on the Langton site in co-operation with the site owners and local residents.

Driving past the site on the M1 you would not realise it was a former colliery spoil tip, as it blends into the surrounding agricultural land.

Newly planted trees, hedgerows and new fencing lines perhaps give it away a little (and our sign). ReCycoal Ltd was delighted with the finished site and are looking to work with 4R on their next project.

Previously this type of restoration project would have received significant funding from the public purse. The Langton project received no public funding and is a highly visible example of a successful restoration project carried out by private industry and shows how the "Circular Economy" can work utilising "waste" materials to restore brownfield land for long-term environmental gain!

Our team of Soil Scientists, Environmental Scientists and Operations team provide a unique blend of experience when looking at restoring brownfield sites. Working alongside many site owners UK wide for over 20 years, we now offer our skills and expertise to clients outside the UK.



4R RECYCLING IS PART OF THE 4R GROUP
INNOVATORS IN WASTE SCIENCE
AND RECYCLING TECHNOLOGIES

Call us on: 0800 0121 769

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ISO 9001 (Quality), ISO 14001 (Environmental)
& ISO 18001 (Health and Safety)

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