

## NORTH TIP

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*Client*  
County Council

*Main Contractor*  
Van Elle Ltd

*Consulting Engineers*  
County Council

*Solution*  
Cable Percussion Boreholes  
Machine Dug Trial Pits  
Insitu Testing and Sampling  
Surging

*Year*  
2014

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### PROJECT DESCRIPTION

North Tip is a very large area of colliery spoil, also containing many other waste products. The site is situated adjacent to the former Coalite Plant who also used this area to dispose of heavily contaminated waste products. A detailed Ground Investigation was required to enable the client, the local County Council, to assess options for future land use.

Van Elle were commissioned as Main Contractor to undertake a challenging ground investigation within a site classified as 'red' with regard to the anticipated high contamination levels. The works involved the following:

- 26 cable percussion boreholes to depths of up to 40m
- 40No. machine dug trial pits up to 4.5m bgl.
- Insitu testing and sampling including SPT, UT100's and permeability
- Installation of groundwater/ground gas monitoring wells
- Surface water sampling and river silt sampling
- Full time supervision by geo-environmental engineers
- Surging, purging and sampling from the borehole installations using low flow techniques
- Geotechnical and environmental laboratory testing
- Factual reporting

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