



INVESTOR IN PEOPLE



Reference Number B3-3241

12 February 2013

Pipe Jacking Association  
10 Greycoat Place  
London  
SW1P 1SB

Dear Sirs

### Validation of the Pipe Jacking Association carbon emissions tool

TRL, on behalf of the UK Pipe Jacking Association [PJA], has developed an on-line tool to estimate greenhouse gas emissions which can be found at [www.pipejackingco2calculator.com](http://www.pipejackingco2calculator.com). The user of the tool enters details regarding a pipeline installation scheme and the calculator estimates the emissions associated with the work when using the pipe jacking and conventional trenching techniques.

WRc plc has audited the tool and can verify that all aspects of the pipe jacking and conventional trenching technologies are correctly incorporated and that the numerous equations are correct.

Note that WRc's review did not include the choice or source of emission factors that were used by TRL. Also, emissions due to traffic disruption caused by vehicle traffic management are taken as zero for the pipe jacking technique as it has been assumed by the PJA that it is possible to minimise the impact of pipe jacking operations on the highway by intelligent project design, such as locating shafts in roundabouts, footways and on brown or industrial land.

WRc recommend that the tool user refers to the 'assumptions' and 'data sources' referenced under the 'calculator' tab of the tool.

Yours faithfully

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