

# Guidance on Assessing Emissions from Railway Locomotives

LAQM TG(09) explains that stationary locomotives and moving diesel locomotives should be assessed separately. This document only refers to the assessment of moving diesel locomotives. The assessment of stationary locomotives is described in LAQM TG(09).

New evidence has come to light that nitrogen dioxide concentrations can be elevated alongside rail lines with a large number of diesel locomotive movements - the emissions can be equivalent to those from a busy road. There is thus a new requirement in LAQM TG(09) that will apply to a number of local authorities to assess railway lines with a high usage of diesel locomotives to establish whether there is relevant exposure nearby. Table 1 provides information on which lines should be considered based on passenger train movements. It has not been possible to take account of freight movements.

These lines need only be considered where the background annual mean nitrogen dioxide concentration is above 25 µg/m<sup>3</sup>. This is only expected to occur within 35 local authority areas. These authorities are listed in Table 2. Only these authorities will need to consider these emission sources. The approach that these authorities should take is explained in LAQM TG(09).

<b>Table 1</b>	<b>Rail lines with a heavy traffic of diesel passenger trains</b>
	<b>Description</b>
	<b>Paddington to Swansea</b>
	<b>Swindon to Taunton</b>
	<b>Bristol Temple Meads to Bristol Parkway</b>
	<b>Rugby to Birmingham New Street</b>
	<b>Manchester Piccadilly to Wigan</b>
	<b>Crewe to Gretna</b>
	<b>Manchester to Crewe</b>
	<b>Liverpool Lime Street to Allerton (Liverpool Urban area)</b>
	<b>Sheffield to Wincobank Jn</b>
	<b>Leeds to Bradford only for about 1 mile to west of Leeds station</b>
	<b>Glasgow to Edinburgh</b>

<b>Table 2 Authorities with rail lines with a heavy traffic of diesel passenger trains where the estimated annual mean background nitrogen dioxide concentration (in 2008) is greater than 25 µg/m<sup>3</sup>.</b>
<b>Birmingham</b>
<b>City of Bristol</b>
<b>Congleton</b>
<b>Coventry</b>
<b>Halton</b>
<b>Leeds</b>
<b>Liverpool</b>
<b>Manchester</b>
<b>Reading</b>
<b>Rotherham</b>
<b>Salford</b>
<b>Sheffield</b>
<b>Slough</b>
<b>Solihull</b>
<b>South Bucks</b>
<b>South Gloucestershire</b>
<b>South Ribble</b>
<b>St Helens</b>
<b>Stockport</b>
<b>Swindon</b>
<b>Trafford</b>
<b>Vale Royal</b>
<b>Warrington</b>
<b>Wigan</b>
<b>Windsor and Maidenhead</b>
<b>Ealing</b>
<b>Hammersmith and Fulham</b>
<b>Hillingdon</b>
<b>Kensington and Chelsea</b>
<b>City of Westminster</b>
<b>City of Edinburgh</b>
<b>City of Glasgow</b>
<b>Cardiff</b>
<b>Neath Port Talbot</b>
<b>Newport</b>