

7.0 Progress Report for 1,3-Butadiene

7.1 The national perspective

The main source of 1,3-butadiene in the UK is emissions from motor vehicle exhausts. 1,3-butadiene is also an important industrial chemical which is handled in bulk at a small number of industrial premises. Modelling and monitoring undertaken at a national level indicates that existing national policies should generally be sufficient to achieve the 2003 objective for 1,3-butadiene. However, some localised exceedances of the objective may occur close to major industrial processes.¹

7.2 The local perspective

In the First Stage Review and Assessment of Air Quality in York 1,3-butadiene was assessed against the following objective:

'A running annual average of 1ppb or less to be achieved by the end of 2005.'

It was concluded that this objective would be met in York without the need for further action at a local level.

In the Second and Third Stage Review and Assessment of Air Quality in York benzene was assessed against a revised objective which was:

'A running annual mean of 2.25 $\mu\text{g}/\text{m}^3$ (1ppb) or less to be achieved by the end of 2003.'

It was concluded that this objective would also be met in York without the need for further action at a local level.

For the purpose of the update and screening assessments undertaken in 2003 and 2006 1,3-butadiene was assessed against the following objective which was:

'A running annual mean of 2.25 $\mu\text{g}/\text{m}^3$ (1ppb) or less to be achieved by the end of 2003.'

During the review and assessment process in York no requirement to monitor 1,3 butadiene has ever been identified. On this basis there is no 1,3 butadiene monitoring data available to present in this report.

¹ DEFRA Review and Assessment: Technical Guidance LAQM.TG (03) 2003

7.3 Conclusions

Based on the results of the Update and Screening Assessment (April 2006) it was concluded that City of York Council was not required to progress to a detailed assessment of 1,3 butadiene. Since 2006 no further development has taken place in York which would have the potential to give rise to exceedences of the 1,3 butadiene objectives. The findings of the last Update and Screening Assessment are therefore still considered valid and there are no plans to proceed to a detailed assessment for 1,3 butadiene at this time. A further update and screening assessment for 1,3 butadiene will be carried out in April 2009.