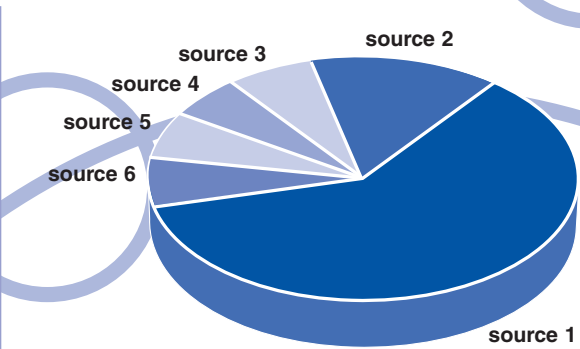


## Category Odour Scaling



Sources of odour on site

### Application environment

Any manufacturing environment such as a bitumen refinery, chemical production, or food-processing unit has typically several exhaust points between the internal production areas and the outside environment. Very often it is the smallest, seemingly insignificant, exhaust stack that yields the most serious contribution to site odour. Only from a process of close examination of air emission points can the major source can be determined.

Failure to correctly identify the correct source of an odour problem can result in the installation of an ineffective abatement system. In such circumstances, not only is the odour problem likely to remain but also considerable capital expenditure wasted.

### Product Aim

Category odour scaling fully qualifies all the sources of odour emission within a site boundary, ranking them in order of significance of contribution to the net odour yield. This critical step ultimately helps to identify the appropriate odour abatement system.

### How it works

Our senior consultant, accompanied by the site's environmental manager, carries out the assessment, pinpointing the suspected sources. A joint

determination is made by safely smelling the source of odour at each emission point, scoring it against an index of 10 (10 being nominally high). Using this index, scores for other locations are allocated. Occasionally a new source can have higher odour strength than the original, resulting in a score higher than 10 being awarded. In addition, the volume or emission rate of the odour source is also considered and tallied with the strength of odour.

Eventually all sources are identified and ranked by order of their significance to the actual net odour nuisance. Their percentage contribution is then calculated, allowing a focused plan of action to further sample the more significant sources for olfactometric analysis or to remediate them by abatement.

A comprehensive report detailing the findings and conclusions is then presented to provide a clear understanding of how to improve the site odour management.

By determining the exact odour emission points on a site prior to attempting any form of abatement or process control, significant time and money is saved and a more likely outcome of success ensured.

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