

Olfactometric Sampling and Analysis

Application environment

In all industrial processes, exact odour concentration determination provides valuable process management indicators. For example, in the waste-water industry a noticeable increase in odour yield may indicate a biological process becoming inefficient. Similarly, in the composting of organic materials, an increase in the strength of odour may indicate inefficient ventilation of the material.



Olfactometry is especially valuable as a means of quantifying a source of odour to support or dismiss odour nuisance complaints. If a genuine odour problem is authenticated by Olfactometry, an appropriate abatement process can be selected to resolve the problem. By assessing the emission on a 'before' and 'after' treatment basis, the percentage reduction in odour can be reliably calculated to confirm the success of the abatement measure.



Product Aim

Olfactometric sampling and analysis provides a reliable measurement of odour concentration, thereby providing valuable data from which to make reasoned odour management decisions.

ensures that the sample is not contaminated with odour from the pump mechanism.

How it works

Olfactometry is the scientific measurement of odour concentration utilising a system of sampling and a regulated methodology to European standard (CEN 13725).

Sample bags, generally containing 30 litres of sample air, are shipped immediately to an Olfactometry laboratory for analysis by dynamic Olfactometry within 30 hours of the sample being taken.

The process begins with a site visit by our senior consultant who, in consultation with the client, identifies the odour sources to be sampled. At least two samples from each source are obtained to ensure meaningful results. The samples are taken using specially modified sampling containers, a pump and inert tubing.

The quantity of samples taken in any given day is variable and generally based on the simplicity of the sampling point and its accessibility. It is therefore important that good advance planning is carried out prior to scheduling a sampling date.

Using the lung method, air samples are pulled directly into special Nalophane sampling bags. This method

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

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