



Environmental Odour Management

Environmental odour is a problem facing many types of industrial and agricultural activity. Sites that generate odour are increasingly required to control their impact on their neighbours to avoid social, regulatory and legal conflicts.

As leading experts in the fields of odour and air quality, Odournet have an unrivalled track record assisting industry to meet these challenges, and offer a full range of services and advice to identify, quantify, assess, control and manage odorous emissions and odour nuisance.



Overview of capabilities

All of our services are tailored to the precise needs of our clients and offered on the basis of our core values of:

- Expertise and experience.
- Independence.
- Quality.
- Value for money.
- Customer service.
- National and international coverage.

Every project we conduct benefits from the accumulated knowledge gained over 30 years by 80 specialist staff located in seven different countries.

Senior Odournet staff are recognised as experts in their field and continue to lead the development of odour science at a national and international level.



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Experience

Odournet's experience includes all of the industrial and agricultural activities that generate odours and are commonly associated with odour related community problems.

This experience includes work for the private and public sectors, across Europe and on an international basis. This provides Odournet with a complete perspective of the challenges facing industry in operational and regulatory terms, and the full breadth of solutions available.

All projects are designed on the basis of the combined experience of the Odournet group which includes over 5000 individual studies conducted across Europe since 1989.



Quality

Quality and first class customer service is core to our values. We tailor our services to our client needs to achieve cost effective and robust solutions. All of our activities are conducted in accordance with ISO9001 certified procedures. A wide range of our sampling and analysis services are also accredited by UKAS (UKAS laboratory No. 2430) and MCERTS in accordance with ISO17025.



International coverage

Odournet UK Ltd offices are located near Bath and Altrincham and provide the full range of services to clients located across the United Kingdom and Ireland.

As part of a larger group, with offices located across Europe, South America and Asia and connections to a wide range of international institutions we are fully equipped to provide global sampling, analysis and consultancy services.

Contact our experts:



General enquiries: **01225 868869 (Bath) / 0161 929 6778 (Altrincham)**

Website: **www.odournet.com**

Service specific contacts are identified within the directory pages



Consultancy services

Impact assessment and problem diagnosis

Odour and health impact assessments	Risk based and quantitative (dispersion) modelling assessments for planning, licencing, nuisance investigation and evaluation of control techniques.
Odour and pollutant dispersion modelling	Specialist odour and air quality dispersion modelling services using steady state (AERMOD) and puff models (CALPUFF) to assess long term and short term exposure.
Evaluation of odour control options	Assessment of the influence of odour control techniques for cost-benefit analysis studies and development of capital investment plans.
Complaints analysis	Analysis of complaints and development of complaint recording, investigation and validation systems
Odour management	Advice on odour management and preparation of Odour Management Plans (OMPs) for regulated sites and planning applications.

Odour control and management

BAT/BPM assessments	Review of odour control strategies to evaluate and assess compliance to BAT and Best Practicable Means (BPM) standards.
Fugitive emissions control	Review and development of strategies for control of fugitive emissions from buildings and diffuse odour sources (e.g. landfills).
Abatement system reviews	Assessment of the performance of odour and pollutant abatements systems and problem diagnosis. Abatement system design reviews.
Industry best practice	Advice on industry best practice by sector for odour control and management.
Nuisance investigations	Advice on assessing nuisance to defend against or support nuisance cases.

Policy and expert witness

Expert witness	Expert testimony and review of the strengths and weaknesses of legal cases for civil cases, criminal cases, arbitration, mediation and class action.
Policy development	Development and provision of advice on odour regulation and assessment policy.

Software and odour management tools

Odourmap™	Web based complaints management, communication and validation tool
i-nose™	Automated odour plume tracking and prediction system to assist operational management of industrial process including pumping and tankering operations.

Contact an expert:



Paul Ottley
pottley@odournet.com
01225 868869



Louise Warren
lwarren@odournet.com
01225 868869



Dr Andrew Meacham
ameacham@odournet.com
01225 868869





Testing and emission monitoring

Odour and pollutant emissions measurement services

Odour and pollutant emission measurement*	Measurement of odour emissions and a wide range of odorous and non odorous VOCs from stacks, open tanks, solid material, ventilation systems and buildings. Sampling is accredited by UKAS (all tests) and MCERTS (stacks only).
Bio-aerosols (stacks)*	Measurement of bio-aerosols from stacks (VDI4257 Part 2). Sampling is accredited by UKAS and MCERTS.
Bio-aerosols (ambient)	Monitoring of bio-aerosols in ambient air in accordance with EA/AFOR standards.
Continuous emission monitoring	Continuous monitoring of selected compounds (e.g. hydrogen sulphide, ammonia and Total Volatile Organic Compounds).
Field and boundary monitoring	Field assessments of odour plumes in accordance with prEN264086 to determine plume extent or quantify odour exposure from diffuse odour sources (e.g. landfills, composting). VOC and Hydrogen sulphide mapping. Olfactory surveys in accordance with Environment Agency, DEFRA and IAQM odour guidance, including expert third party validation and auditing.

Abatement system evaluation

Performance testing*	Assessment of the performance of odour abatement systems in terms of odour (EN13725) and other odorous and non odorous VOCs for commissioning, problem diagnosis and benchmarking to industry best practice standards.
Biofilter health checks	Assessment of biofilter flow distribution to evaluate treatment performance and diagnose performance problems associated with bed drying and short circuiting. Analysis of the 'health' and condition of biofilter media to support an effective biomass and sustain pollutant treatment.
Scrubber health checks	Review of scrubber design and operational control systems.
Flow and load surveys*	Assessment of flow and load to support design of new odour abatement systems.

Fugitive emissions

Air leakage measurement*	Building leakage testing to quantify fugitive emissions and support abatement system design.
Smoke testing	Identification of leakage points and assessment of building integrity
Pressure testing	Pressure testing to evaluate building extraction system performance.

* UKAS and/or MCERTS accredited

Contact an expert:



Louise Warren
lwarren@odournet.com
01225 868869



Oliver Carter
ocarter@odournet.com
01225 868869



Rebecca Long
rlong@odournet.com
0161 929 6778



Laboratory and analytical services

Sensory analysis

Odour strength*	Determination of odour concentration in odour units by Olfactometry (BSEN13725), to support odour surveys, abatement plant performance tests and evaluate the odour generation potential of liquids and solid materials. UKAS accredited.
Hedonic tone	Determination of the relative unpleasantness of an odour to assess its impact potential. Analysis is conducted in accordance with NVN2820.
Odour character	Assessment of what an odour smells like (smells like lemon, flowers, sewage, rotten cabbage etc).
Odour threshold	Determination of the odour threshold of an odorous compound (i.e. the concentration at which it is detectable).
Acuity assessment*	Assessment of the sensory acuity (sense of smell) of an individual involved in odour monitoring such as a plant operators, EHOs and Environment Agency officers.

Molecular / pollutant analysis

Trace pollutant (VOC) speciation by GC-MS-TOF	<p>Characterisation of odour and air samples in terms of chemical composition. Our high performance Time of flight (TOF) Gas Chromatography - Mass Spectroscopy system offers detection down to 1 ppt.</p> <p>Service options include:</p> <ul style="list-style-type: none"> - Odour relevant compounds (drawn from a specialist database of over 150 compounds). - Targeted scans (i.e. to identify specific compounds or compound groups defined by the client). - Health relevant compounds.
GC-O	Gas Chromatography - Olfactometry. Identification of the compounds responsible for a specific odour character or malodour.
Total VOCs	Analysis of the volatile organic compound concentration of components with and without methane.
Pollutant specific analysis	Analysis of a wide range of common pollutants using compound specific analysers or low cost indicative testing.

Equipment hire and purchase

Equipment hire	Hire of specialist odour and pollutant sampling equipment.
Equipment purchase	Purchase of specialist odour sampling equipment and sampling bags.
Training	Training in odour sampling and trace gas analysis

* UKAS accredited service

Contact an expert:



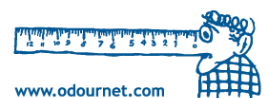
Deborah McCollum
dmcollum@odournet.com
0161 9296778



Francesca Santilli
fsantilli@odournet.com
01225 868869



Pip March
pmarch@odournet.com
01225 868869





Training services

Theory and practice

Regulation and guidance	<p>Introduction to odour regulations.</p> <p>How do concepts such as BAT and BPM apply to odour control?</p> <p>Odour control technology.</p> <p>Overview of odour guidance (Environment Agency, DEFRA, IAQM).</p>
Impact assessment	<p>Introduction to odour dispersion modelling.</p> <p>Odour impact criteria: How much is too much odour?</p> <p>Assessing odours in the field.</p>
Odour control	<p>Preparing an Odour Management Plan (OMP).</p> <p>Assessing odour abatement system performance.</p> <p>Identifying the most cost effective odour solution.</p>
Survey techniques	<p>Emission measurement from stacks, tanks and solid materials.</p> <p>Field survey techniques.</p> <p>Molecular analysis.</p> <p>Fugitive emissions testing and evaluation.</p>

Practical training

Odour sampling	<p>Sampling from ducts and stacks.</p> <p>Sampling from biofilters.</p> <p>Sampling from liquid tanks and solid materials.</p>
Odour analysis	<p>Introduction to sensory analysis.</p> <p>Quality control.</p> <p>Panel management.</p>

Bespoke training packages and workshops tailored to your specific needs are available on request, including interactive training on our full range of sampling and analysis equipment.

Training can be delivered anywhere in the UK and Ireland.

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