Michael Bull

Highlights

Michael Bull is a highly experienced air quality and odour consultant with over 34 years' experience in the field and is acknowledged as a leading practitioner.

Dr Bull has carried out work for Environmental Statements, research reports, air quality management plans and specialist reports. He has appeared at numerous public inquiries presenting expert evidence on air quality and other issues.

He is one the authors of the original RTPI and NSCA Guidance on air quality and development planning, led the group that produced the IAQM guidance on Odours and Planning and was part of the team that produced the IAQM guidance on monitoring of air quality during construction .

Michael is a highly experienced expert witness having appeared at planning inquiries, court cases, DCO Hearings and before Parliamentary and House of Lords Committees. He has provided advice on air quality matters to bodies such as the Highways Agency, DfT, Defra and the GLA. He is currently the lead advisor on air quality matters for the HS2 (high speed rail) project in the UK.

Expert Witness

Michael has presented expert evidence at over 70 public inquiries mainly on air quality and odour. This has included evidence on general air quality impacts, dust nuisance and odour impacts and covering a wide range of activities, e.g. roads, airports, bridges, tunnels, mineral extraction, waste disposal, retail, restaurants and kitchens, commercial and housing. He also has presented evidence on air quality matters to DCO hearings, Parliamentary Committees, the House of Lords and in Court Cases where he regularly assists clients with statutory nuisance cases.

Air Quality Assessment - Transport

Over 34 years' experience in all aspects of air quality assessment for transport proposals, including airports, railways, new roads, motorway widening, road junction improvements and traffic management proposals. Highly experienced in the application of air quality modelling for assessment including the use of the DMRB, the Caline series of models, ADMS-Roads, ADMS-Airports and ADMS-Urban. Installed several air quality monitoring networks to support the assessments and provide baseline information. Projects have included Gatwick, Stansted, Luton and Birmingham Airports, several regional airports, road schemes such as the M1, M4, M65, M25, M2, A14, A23 and A40, the Replacement Forth Crossing, the New Tyne Tunnel, HS2

Profession
Air quality and odour consultant

Current position
Director

Years of experience
34

Nationality
British

Qualifications
BSc (Hons) Chemical Engineering – University of Exeter
DIC. Public Health Engineering – Imperial College
PhD Public Health Engineering – Imperial College

Professional Associations
Fellow, Institute of Air Quality Management
Member, Institution of Chemical Engineers
Member, Institution of Environmental Science
Chartered Engineer (CEng)
Chartered Scientist (CSci)
Chartered Environmentalist (CEnv)

Publications
Numerous published papers and conference presentations on air quality matters. Contributing author to the book "Designing with Smell" published by Routledge in 2017.

Air Quality Assessment – Dust and Construction

Michael has carried out numerous assessments of potential dust impacts from mining, landfill, waste disposal and construction projects. For several of these projects he has devised dust monitoring schemes using a wide variety of methods such as sticky pads, frisbee gauges light scatter meters, beta gauges and TEOM devices. These have often been combined with installation of meteorological monitoring equipment in order to assist with source identification. The assessment of potential dust impacts has used various approaches included dispersion modelling or the assessment of the proposed site activities with identification of suitable mitigation. Michael was part of the group that produced the IAQM guidance on monitoring of air quality near to construction sites.

Air Quality Assessment – Odour

Has undertaken numerous odour assessment projects for waste water treatment, intensive agriculture, catering, waste disposal and industrial activities. These projects have been carried out as part of an environmental statement, for nuisance investigation, to determine site suitability for housing, in defence of legal action and as evidence at public inquiry. These projects have frequently involved organising odour surveys to determine existing conditions and odour emissions rates to support further odour modelling with the ADMS or AERMOD models. As the chair of the group that produced the IAQM guidance, he is very familiar with the relevant guidance regarding odour and frequently advises clients on how to resolve potential odour issues. Michael has been involved in many of the cases that have informed the preparation of guidance in the field.

Air Quality Assessment – Industrial

Michael has been involved in the assessment of the impact of industrial emissions for nearly all of his career. He is particularly experienced in the application of dispersion models and starting with the R91 model, through the use of ISC, Complex1 and RTDM and other USEPA models to the current ADMS and AERMOD systems. Has also organised monitoring of stack emissions and set up continuous monitoring networks to determine the impact of industrial activities. He has presented evidence on air quality matters for industrial and energy projects at public inquiry and at DCO hearings.