

Current Position: Technical Director with Air Quality Consultants Ltd.

Year of Birth: 1974

Nationality: British

Qualifications: BSc Environmental Science (1996)
PhD Atmospheric Chemistry (2003)

Positions Held:

- Chartered Scientist (CSci)
- Member of Institute of Air Quality Management (MIAQM)
- Member of Institution of Environmental Sciences (MIES)

Key Experience:

More than seventeen years' relevant experience in the field of air quality. Responsible for air quality and greenhouse gas assessments of road schemes, rail schemes, airports, power stations, waste incinerators, energy from waste plant, commercial developments and residential developments in the UK and abroad. Providing expert witness services at several public inquiries. Using detailed dispersion models, as well as contributing to the development of modelling best practices. Arranging and overseeing air quality monitoring surveys, as well as contributing to Defra guidance on harmonising monitoring methods. Responsible for air quality review and assessments on behalf of numerous local authorities. Developing methods to predict nitrogen deposition fluxes on behalf of the Environment Agency. Responsible for updating the Design Manual for Roads and Bridges air quality model on behalf of the Highways Agency. Providing support and advice to the UK Government, Transport Scotland, Transport for London, the Greater London Authority and numerous local authorities.

Employment Record:

2011-current	Technical Director, Air Quality Consultants Ltd. Carrying out and overseeing air quality assessments on behalf of a range of clients. Providing technical support to other consultants.
2007-2011	Principal Consultant, Air Quality Consultants Ltd. Carrying out and overseeing air quality assessments on behalf of a range of clients.
2005-2007	Senior Consultant, Air Quality Consultants Ltd. Responsible for air quality monitoring and modelling assessments.
2003-2005	Consultant, Air Quality Consultants Ltd. Preparation of reports on air quality monitoring data and contributions to air quality assessments of new developments.
1999-2003	Doctoral Research at the University of Birmingham. Operating an extensive air quality monitoring network for a range of air pollutants. Developing a numerical simulation model to calculate nitrogen deposition fluxes. Contributing to Environment Agency protocols.

Public Inquiries and Expert Witness

A737 Dalry Bypass (2014)

Expert witness providing written evidence to the inquiry.

Bristol Bus Rapid Transit Scheme (2012)

Expert witness to the inquiry on air quality and greenhouse gas issues.

Wealden District Council Core Strategy Examination (2012)

Expert witness to the public inquiry on air quality and nitrogen deposition.

Expert Witness M8,M74,M73 Network Improvements (2009)

Expert witness to the public inquiry on air quality and greenhouse gas issues.

Aberdeen Western Peripheral Route (2011)

Providing support to Transport Scotland and the air quality witness during the public inquiry and subsequent legal challenge.

Thames Gateway Bridge, London (2003-2008)

Providing support to Transport for London and the air quality witness during the public inquiry.

M8 Upgrade (2008)

Providing support to Transport Scotland and the air quality witness during the public inquiry.

Residential and Commercial Developments

Residential Developments

Responsible for several assessments each month - several hundred assessments in total - identifying the air quality impacts of proposed residential developments.

Commercial Developments

Responsible for several hundred assessments identifying the air quality impacts of proposed commercial developments.

Sports Stadia

Responsible for the air quality assessments for several major sports stadia, including in London, Wales, Northampton, and Gibraltar.

Schools

Responsible for air quality assessment for ca. 50 schools across the UK.

Road and Rail

Baker Street and Gloucester Place 2-way System (2015 – 2016)

Responsible for the air quality assessment of a major proposed scheme in Central London. Involved dispersion modelling using the outputs from a micro-simulation traffic model.

Highbury Corner (2016)

Responsible for the air quality assessment of a major re-design of this busy junction in London.

Emissions of Nitrogen Oxides from Modern Diesel Vehicles

Produced a report which compared the results from real-world emissions tests with Defra's Emissions Factors Toolkit. Producing an alternative emissions calculator based on the findings of the review.

Air Quality Advice to the Scottish Executive and Transport Scotland (2004-2015)

Part of a team of consultants auditing Environmental Assessments for Trunk Roads in Scotland. The aim is to advise on legal and procedural compliance and to raise the standard of road assessment.

M4 Smart Motorway, Hillingdon (2015-2016)

Contributed to a review of the air quality sections of the Environmental Statements and DMRB assessment produced for Highways England. This work was carried out on behalf of Hillingdon Council.

Revised DMRB Air Quality Model (2010-2014)

Responsible for developing a fully-revised Design Manual for Roads and Bridges Air Quality model on behalf of the Highways Agency.

Review of M8 M73 M74 Environmental Appraisal Report (2014)

Reviewing the appraisal report for proposed design changes to the M8, M73, and M74 motorway improvements on behalf of Transport Scotland.

A737 Dalry Bypass (2008-2014)

Responsible for the air quality and greenhouse gas assessment for a proposed bypass in North Ayrshire, on behalf of Transport Scotland.

Investigating Options to Reduce Localised Air Quality Impacts Using Microsimulation and Dispersion Models (2012-2014)

Responsible for a project to assess the localised effects of changes to traffic signaling and priorities.

Regional Rail Freight Interchange in South East England (2005-2014)

Responsible for the air quality and greenhouse gas assessment for a proposed rail freight interchange and associated road improvement works in South East England.

Postwick Junction, Norwich (2012-2013)

Contributed to the climate change assessment of a new road junction with the A47.

Bus Rapid Transit Scheme in Southern England (2009-2012)

Responsible for the air quality and greenhouse gas assessment for a Bus Rapid Transit scheme in a major city in Southern England.

Proposed New Road, Doha, Qatar (2012)

Contributed to an air quality assessment for a proposed new road in Doha, Qatar.

HGV impacts on an AQMA (2011-2012)

Carrying out an assessment of the impacts of HGVs within an AQMA in Kent in relation to a planning appeal.

Aberdeen Western Peripheral Route (2005-2011)

Responsible for the air quality chapter of the Environmental Statement for a proposed new road to the west of Aberdeen.

Emission Factor Toolkit (2010)

Assisting with the release Defra's updated road traffic emission factor toolkit (EFT), which is used in most studies of road traffic emissions in the UK.

Road Upgrade Works for the 2012 Olympics (2010)

Assessing the impacts of a package of road improvement works to prepare a large town for the 2012 Games.

Park and Ride Schemes in Northern England (2009-2010)

Responsible for the air quality and greenhouse gas assessments for two Park and Ride Schemes in Northern England. Carrying out detailed dispersion modeling and preparing the air quality chapter of each Environmental Statement.

M8,M74,M73 Network Improvements (2006-2009)

Responsible for air quality and greenhouse gas chapter of the Environmental Statement.

Detailed Dispersion Modeling of Golders Green Bus Station (2009)

Modeling hour-by-hour emissions and predicting source-apportioned concentrations around this busy bus station.

A164 Humber to Beverly (2009)

Responsible for an air quality and greenhouse gas WebTAG assessment of proposed road improvements.

Regional Rail Freight Interchange in Northern England (2007-2009)

Overseeing the air quality and greenhouse gas assessment for a proposed rail freight interchange in Northern England.

Air Quality Assessment of a Multi-storey Car Park (2009)

Overseeing the air quality assessment of a proposed multi storey car park, to serve Rotherham District General Hospital.

Thames Gateway Bridge, London (2003-2008)

Contributed to the air quality assessment of a proposed bridge over the Thames in East London.

Airport in Northwest England (2007-2008)

Responsible for an air quality assessment which included the relocation of a road freight depot and the expansion of an airport.

M8 Upgrade (2004-2008)

Responsible for Stage 2 and 3 DMRB assessments for a proposed motorway upgrade scheme in Scotland, involving detailed dispersion modelling and a STAG assessment.

M1 Truckstop (2008)

Responsible for the air quality assessment of a proposed truckstop on the M1.

M25 Widening (2008)

Contributed to a Stage 2 DMRB assessment of a proposed widening scheme.

Greenhouse Gases from Road Schemes (2006-2007)

Advising Transport Scotland on ways to improve the reliability with which greenhouse gas emissions from road networks are predicted.

M74 Junction 5 Upgrade (2004-2007)

Responsible for Stage 2 and 3 DMRB assessments for a strategically important road junction near Glasgow. Involved detailed dispersion modelling and a STAG assessment.

A14 Upgrade (2006)

Contributed to a TAG air quality assessment appraising six design options for a 20 km roadway in Cambridgeshire.

Thames Gateway Bridge Construction (2006)

Assisting Transport for London fulfil its obligations regarding construction dust mitigation.

Air Quality Guidelines for National Road Schemes (2005)

Contributed to detailed guidelines for the air quality assessment of national road schemes, on behalf of the National Roads Authority, Ireland.

Tyne and Wear LTP2 (2005-2006)

Provided support in the production of air quality targets and indicators for Local Transport Plan 2 for Tyne and Wear.

M80 Upgrade, Scotland (2003-2005)

Involved in the air quality assessment of the M80 upgrade, including a Stage 3 DMRB air quality assessment using detailed dispersion modelling and also a STAG assessment.

Durham Tees Valley Airport Expansion (2004)

Contributed to an air quality assessment of proposed expansion of Durham Tees Valley Airport. Included modelling of impacts of aircraft and traffic emissions using the AAQulRE model.

Park and Ride Scheme, Northern England (2004)

Responsible for an air quality assessment for a proposed mixed-use development in Northern England, including a Park and Ride scheme.

Junction Realignment, South East England (2003)

Contributed to an air quality assessment, including a GOMMMS assessment, of a proposed junction realignment in South East England.

New Relief Road, South West England (2003)

Involved in preparing the air quality assessment, including a GOMMMS assessment, for a proposed relief road in South West England.

Proposed Bypass, Eastern England (2003)

Preparation of an air quality assessment for inclusion into the local plan of a large area of residential housing and a new bypass.

Update of Design Manual for Roads and Bridges (2003)

Contributed to the updating of the DMRB screening model on behalf of the Highways Agency.

Airports

Airports Commission (2014-2015)

Contributed to the Airports Commission's Appraisal Framework Module 6: Air Quality Local Assessment. Specific responsibilities involved reviewing and overseeing amendments to landside dispersion modelling study to assess the air quality impacts of the three shortlisted schemes for the new runway. Acted as second author on the report that was submitted to the Airports Commission.

London City Airport (2007-2015)

Overseeing modelling of the air quality impacts of the airport.

Airport Engine Test Facility (2011)

Overseeing assessment of a new engine test facility at a UK airport.

Air Quality Assessment of the Redbull Air Race (2010)

Responsible for an assessment of the air quality impacts of the Redbull Air Race in London.

Bournemouth Airport New Terminal (2005)

Contributed to an air quality assessment of proposed new terminal at Bournemouth Airport. Included assessing the impact of emissions on the surrounding heathland.

Doncaster Finningley Airport (2003)

Involved in an air quality assessment, following the RASCO methodology, for Doncaster Finningley Airport.

Industry and Power Generation

Review of shale-gas extraction operations (2015-2016)

Reviewing the air quality sections of the Environmental Statement for a proposed shale-gas fracturing operation.

Energy from Waste Plant beside UK Motorway (2014)

Assessing the impacts of a significant increase in the capacity of a facility for planning and permitting.

Energy from Waste Plant in the Southwest (2014)

Overseeing the air quality assessment for a large energy from waste plant in a rural area.

Energy from Waste Plant in the West Midlands (2013-2014)

Overseeing the air quality assessment for a large energy from waste plant in an urban area.

Sugar Mills, South Africa (2014)

Oversaw the air quality assessments for three sugar mills in South Africa. The assessments considered the potential impacts of emissions from a variety of sources within the mills on the surrounding area.

Hydraulic Fracturing and Testing Site, in Lancashire (2012)

Responsible for the air quality chapter for the Environmental Statement for hydraulic fracturing and testing at a drill site near Beconsall, in West Lancashire.

Pyrolysis and Anaerobic Digestion in Northern England (2012)

Overseeing the air quality assessments for two separate pyrolysis and anaerobic digestion plants in Northern England.

Proposed Asphalt Plant in South Africa (2011-2012)

Overseeing the modelling of air quality impacts associated with an asphalt plant near to Bloemfontein.

Energy from Waste in Southern England (2011)

Assessing the potential air quality impacts of locating a new energy from waste plant in a sensitive location.

Numerous Assessments of Biomass and Biogas Boilers and CHP Plant (2010 – 2011)

Overseeing numerous assessments for a range of clients at sites across the UK, including in schools, apartment blocks, and shopping centres.

Exploratory Oil Drilling Site near to an Airport in Southern England (2010)

Responsible for the air quality assessment of an exploratory oil drilling operation. Assessed emissions from flaring, venting, on site machinery and vehicular access.

Urban Energy Centre in Northern England (2010)

Overseeing an assessment into the air quality impacts of a 34MW energy centre including gas boilers, biomass boilers and CHP, in the centre of a major UK city.

Gibraltar Power Station (2009)

Assessing the potential air quality impacts of locating a new power station near to Gibraltar Airport.

Exploratory Oil Drilling Site in South East England (2009)

Responsible for the air quality assessment of an exploratory oil drilling operation. Assessed emissions from flaring, venting, on site machinery and vehicular access.

Energy from Waste Scheme in a Complex Site (2009)

Responsible for assessing the air quality impacts from a large proposed energy from waste plant near to particularly sensitive habitats and an airport.

Biomass Power Plant in Cornwall (2009)

Responsible for assessing the air quality impacts from a new biomass power plant near to particularly sensitive habitats on Bodmin Moor.

Modelling of Emissions from Boiler Flues in London (2008)

Responsible for detailed modelling of the dispersal of flue emissions and their impact upon nearby residents.

Assessing the Air Quality Impacts of a Composting site and Biofilter (2007-2008)

Contributed to an assessment which involved detailed dispersion modelling and deposition calculations.

Combustion Gas Turbine Upgrade, Saudi Arabia (2007)

Responsible for assessing the air quality impacts of upgrading several large gas turbines using detailed dispersion modelling.

Clinical Waste Incinerator and Crematorium, Gibraltar (2006)

Carried out detailed dispersion modelling of a proposed clinical waste incinerator and crematorium.

Shipton Quarry (2006)

Responsible for an air quality assessment of a proposed industrial estate and associated infrastructure in a quarry site. Involving both site preparation and operational impacts.

Llanwern Steelworks (2005)

Responsible for an air quality assessment of a proposed mixed-use development on one half of the Llanwern Steelworks site in Newport - with the remaining half staying operational.

Air Quality Monitoring in Swansea (2005)

Carrying out baseline air quality modelling in relation to a proposed industrial development in Swansea.

Industrial Estate, Brackely, Central England (2005)

Involved with an air quality assessment for a proposed industrial development in Brackley, including construction, traffic-related, and industrial air quality impacts.

Industrial Estate, Desborough, Central England (2005)

Involved with an air quality assessment for a proposed industrial development in Desborough, including construction, traffic-related, and industrial air quality impacts.

Asphalt Plant, Northern England (2003)

Contributed to an assessment of the air quality impacts of a proposed continuous batch asphalt plant, including an assessment of PAH emissions and their influence on local ambient air quality.

Disused Colliery, Northwest England (2003)

Preparation of an Air Quality Assessment, including site preparation, construction, and traffic impacts, for a proposed mixed-use development on the site of a disused colliery.

Warehouse Development, Southern England (2003)

Prepared an air quality assessment, covering construction impacts and impacts from traffic, for a large warehouse development in Milton Keynes.

Nitrogen Deposition and Air Quality Impacts on Ecological Sites

Nitrogen Impacts on Ashdown Forest Ecosystems (2014-2016)

Responsible for on-going programme to monitor nitrogen inputs to Ashdown Forest, to link to ecological condition surveys being carried out by ECUS. Monitoring and modelling covers nitrogen dioxide, ammonia and nitrogen deposition.

Air Quality Impacts of Oil Extraction Wells on the Dorset Heaths SAC (2013)

Commissioned by Dorset County Council to assist both the Council and Natural England to consider the impacts of emissions from oil wells on the SAC.

Air Quality Impacts of Shale Gas Fracturing on an Ecological Habitat (2012-2013)

Assessing the impacts of a proposed exploratory fracturing operation on an adjacent internationally-designated site.

Energy from Waste impacts on the Brecon Beacons National Park (2011)

Commissioned by the Brecon Beacons National Park Authority to review the air quality sections of the Environmental Statement for a proposed energy from waste plant in South Wales.

Eco-town Habitats Assessment (2011)

Assessing the air quality impacts of a proposed new eco-town on international habitats. The assessment impacts from traffic and energy generation facilities.

Habitats and Human Health Impacts from an Anaerobic Digestion Biogas Plant (2011)

Overseeing the assessment for both the Environmental Impact Assessment and Permitting for a facility in Southern England.

Secure Hospital, Southern England (2011)

Responsible for the air quality chapter of the Environmental Statement for the redevelopment of a major secure hospital beside an internationally-designated site, including a proposed new link road and energy centre.

Habitats Assessment – Specialist Manufacturing Process (2011)

Resolving issues raised by Natural England in response to a new manufacturing process.

Energy Centre Beside a SPA in Southern England (2010)

Responsible for the air quality assessment of a proposed energy centre, including gas boilers, biomass boilers and CHP, next to a sensitive ecological site.

Biomass Power Station beside Natura 2000 Habitat (2008-2009)

Responsible for detailed dispersion modelling of the air quality impacts of a proposed biomass power station on human health and an SAC.

Assessment of Potential for Spray Drift from Fungicides to Affect a SSSI (2006-2008)

Responsible for the assessment of spray drift from fungicides onto a SSSI designated for its fungal interest. Developing a methodology which drew on a range of approaches including detailed dispersion modelling.

Ammonia from Cows (2006)

Assessing the impact of ammonia emissions from a proposed cattle stock house on sensitive vegetation.

Ammonia impacts on Heathland (2004)

Responsible for assessing the potential for air quality impacts on vegetation from proposals contained in the Bournemouth, Dorset & Poole Waste Local Plan.

Atmospheric Nitrogen Deposition (2004)

B.B. Marner and Roy M. Harrison (2004) *A Spatially Refined Monitoring Based Study of Atmospheric Nitrogen Deposition*. Atmospheric Environment 38 5045-5056.

Atmospheric Deposition to an Agricultural Catchment (2002)

Presented results of major research study to the Natural Environment Research Council Committee for Air Pollution Effects Research and Co-ordinating Group on Environmental Radioactivity, to the National Farmers Union, and to the Environment Agency.

Environment Agency R&D Report – Investigation of Atmospheric Nitrogen Deposition (2002)

Preparation of Environment Agency R&D Technical Report P2-079/TR.

Monitoring

Collecting and Ratifying Data from Automatic Monitoring Stations across the UK (2011-2016)

Overseeing projects ratifying automatic monitoring data on behalf of a range of clients.

Diffusion Tube Monitoring (2003-2016)

Overseeing numerous projects involving deploying diffusion tubes at and near proposed development sites.

Review of Automatic Monitoring Sites in London (2011)

Contributed to a review of air quality monitoring sites across London on behalf of the GLA; providing recommendations for site locations and methods.

Dust Monitoring Survey (2010)

Responsible for dust monitoring during underpinning work to a large building in the south of England.

Audit of West London Monitoring Network (2009)

Responsible for the review and audit of automatic monitoring across seven London boroughs; providing recommendations for site locations and methods.

Working Group on Nitrogen Dioxide Diffusion Tube Harmonisation (2006-2008)

Part of the team leading the working group on behalf of Defra and the DAs to develop a standardised methodology for nitrogen dioxide diffusion tube monitors.

Diffusion Tube Collocation Survey (2003-2010)

Setting up and subsequently overseeing a nation-wide survey of nitrogen dioxide diffusion tube collocation studies on behalf of Defra and the devolved administrations. The results are published for use by local authorities.

Local Air Quality Management

Further Assessment (2011)

Responsible for a Further Assessment of traffic-related air quality in Redhill in Surrey.

Local Air Quality Management Tools (2010)

Updating and testing air quality management tools published on the national air quality archive.

Detailed Assessment (2010)

Responsible for a Detailed Assessment of traffic-related air quality in Redhill in Surrey.

Local Air Quality Management Tools (2009)

Development of air quality management tools and associated instructions to accompany the 2009 release of the Technical Guidance for Local Air Quality Management (LAQM.TG(09)).

Detailed Assessment (2009)

Responsible for a Detailed Assessment of traffic-related air quality around a steep hill in the Welsh Valleys.

Detailed Assessment (2009)

Overseeing a Detailed Assessment of nitrogen dioxide concentrations for three separate study areas within Harrogate.

Provision of guidance on behalf of Defra and Devolved administrations (2003-2010)

Supporting the Review and Assessment Helpdesk with technical queries.

NO₂ Concentrations and Distance from Roads Report (2008)

Responsible for a report prepared on behalf of Defra which derived a relationship between NO₂ concentrations and distance from roads. The relationship has been incorporated into the 2008 consultation version of the Local Air Quality Management Technical Guidance.

Calculator to Predict NO₂ Concentrations at Different Distances from Roads (2008)

Created a calculator which has been published by Defra and which allows concentrations at different distances from roads to be calculated.

Deriving NO₂ from NO_x for Air Quality Assessments of Roads Report (2007)

Responsible for a report prepared on behalf of Defra which set out a method of calculating annual mean NO₂ concentrations from NO_x concentrations.

Calculator to Predict NO₂ from NO_x (2007)

Created a calculator which has been published by Defra and which allows users to derive NO₂ from NO_x concentrations and vice versa.

Further Assessment (2007)

Responsible for a Further Assessment of traffic related air quality in Wisbech. Involved detailed dispersion modelling.

Analysis of Factors Influencing Diffusion Tube Performance (2006)

Involved with the analysis of the results of the survey of procedures used by commercial UK laboratories for the preparation and analysis of nitrogen dioxide diffusion tubes.

Further Assessment (2006)

Overseeing preparation of a Further Assessment report for Reigate and Banstead Borough Council.

Detailed Assessments (2006)

Overseeing preparation of Detailed Assessment reports for Reigate and Banstead Borough Council.

Updating and Screening Assessment (2006)

Overseeing preparation of Updating and Screening Assessment for Reigate and Banstead Borough Council.

Further Assessment (2006)

Responsible for the ADMS modelling of air quality in the centre of Gateshead.

Further Assessment (2005)

Responsible for the ADMS modelling of air quality across Newcastle City Centre.

Detailed Assessments for Five Tyne and Wear Local Authorities (2005)

Provided ADMS modelling support to the Detailed Assessments for five local authorities in Tyne & Wear.

Guidance on the Treatment of 2003 as a High Pollution Year (2004)

Contributed to a report published by Defra, which provided guidance on the use of data collected during 2003 for air quality Review and Assessment.

Guidance on Assessing against the 1-hour Nitrogen Dioxide Objective (2003)

Contributed to a report published by Defra, which provided guidance on assessment of the 1-hour nitrogen dioxide objective.

Review of Air Quality Monitoring in London (2003)

Contributed to a review of air quality monitoring in London. Involved in stakeholder seminar.

Stage 4 Review and Assessment (2003)

Contributed to the Stage 4 Review and Assessment of air quality in the borough of Reigate and Banstead, where air quality is influenced by a busy airport and motorways.

Local Authority Review and Assessment (2003)

Contributed to the updating and screening for the second round of review and assessment for eight local authorities in Kent.

Miscellaneous

IAQM Construction Dust Guidance (2013)

Part of the working group that updated this best-practice guidance.

Review of PM_{2.5} in the UK (2010)

Prepared chapter on modelling for a comprehensive review of PM_{2.5} in the UK, covering health effects, sources, speciation, pathways, regulatory requirements, monitoring and modelling. Carried out on behalf of SNIFFER and funded by the Scottish Environment Protection Agency, the Northern Ireland Environment Agency and the Environment Agency.

South African Indoor Air Quality Standards (2009-2010)

Responsible for a project working toward developing standards for indoor air quality in South Africa on behalf of the South African National Department of Health.

Air Quality and Greenhouse Gas Assessment of Sugarcane burning in South Africa (2010)

Overseeing the compilation of an emissions inventory for sugarcane burning and an assessment of local air quality impacts.

Ventilation Requirements for the Moving Motor show at Goodwood Festival of Speed (2010)

Overseeing a project to determine the ventilation requirements for a marquee at the Goodwood Festival of Speed where members of the public would watch unusual motor vehicles drive past.

Newcastle Housing Growth (2009)

Carrying out a detailed dispersion modeling study of the combined air quality impacts of Newcastle Council's and Gateshead Council's housing provision targets.

Traffic Growth in Redhill Town Centre (2009-2013)

Carrying out a detailed dispersion modeling study of the combined air quality impacts of numerous planned developments in Redhill, Surrey.

Air Quality Assessment for a Habitat Creation Scheme (2003)

Contributed to an air quality assessment for a proposed scheme to restore an area of waste ground to an ecologically diverse habitat.

Source Apportionment of Nitrogen Oxides, Wales (2003)

Contributed to an investigation into the source apportionment of ambient nitrogen oxides concentrations in the vicinity of an airport and power station.

Assessing Dust from a Coal Working Operation, Yorkshire (2003)

Contributed to an assessment of the impact of dust from a coal working operation close to a proposed housing development.