

Current Position:	Consultant with Air Quality Consultants Ltd.
Year of Birth:	1988
Nationality:	British
Qualifications:	BSc (Hons) Environmental Geoscience (2009)
Positions Held:	Member of the Institution of Environmental Sciences (MIEnvSc) Member of the Institute of Air Quality Management (MIAQM)

Key Experience:

Lucy has over 6 years' experience undertaking air quality assessments for industrial, commercial and residential developments. She has been responsible for dust assessments for mineral and waste sites, as well as construction dust assessments for a range of projects. She has undertaken combustion emissions assessments and odour assessments for waste facilities including energy from waste and anaerobic digestion using detailed dispersion modelling and qualitative methods. She has also undertaken road traffic emissions assessments using ADMS Roads and Breeze Roads for residential and commercial developments. She has extensive experience in nuisance dust monitoring and ambient air quality monitoring and interpretation of monitoring data.

Employment Record:

2016 – Date:	Consultant, Air Quality Consultants Ltd
2012 – 2016:	Senior Consultant, SLR Consulting Ltd
2009 – 2012:	Project Consultant, SLR Consulting Ltd

Waste Developments

Biomass Facility, Green and Wood Waste Recycling Facility, Nottinghamshire (2016)

Responsible for the development of a dust management plan in response to a pre-operational planning condition.

Energy from Waste Facility, Belfast, Northern Ireland (2015)

Responsible for the preparation of an air quality assessment for an update to a proposed Energy from Waste facility in Belfast for planning and permitting. Considered the impacts from combustion emissions using the Breeze AERMOD dispersion model, including and assessment of impacts on ecological receptors, and considered construction and operational dust and odour impacts qualitatively.

Anaerobic Digestion Facility, Nottinghamshire (2014)

Responsible for the preparation of an air quality assessment for a proposed Anaerobic Digestion facility in Nottinghamshire. Considered the impacts from combustion emissions on local human and ecological receptors using the Breeze AERMOD dispersion model, and considered potential odour impacts.

Anaerobic Digestion Facility, Greater Manchester (2014)

Assisted with the preparation of an air quality assessment for a proposed Anaerobic Digestion facility in Greater Manchester. Considered impacts from combustion emissions and odours using the Breeze AERMOD dispersion model

Aggregate Recycling Facility, Swanscombe (2014)

Responsible for the preparation of an air quality assessment for a proposed waste recycling facility in Swanscombe. Considered impacts from additional HGV movements, construction and operational dust for Hydraulically Bound Material (HBM) plant and secondary aggregate facility. Included compiling, running and analysing data using the Breeze Roads dispersion model.

Waste Transfer Station, Somerset (2014)

Responsible for the preparation of an air quality assessment for a proposed waste transfer station on an existing landfill site. The impacts relating to construction and operational dust, and odours during operation were assessed qualitatively.

Aggregate Recycling Facility, Hampshire (2014)

Responsible for the preparation of a qualitative dust assessment for the permanent retention of a waste recycling facility in Hampshire.

Data Analysis Report for Landfill Dust Monitoring, Cornwall (2012-2014)

Responsible for the preparation of annual summary reports of ambient PM₁₀ and nuisance dust monitoring at a landfill, to meet the requirements of the air quality assessment.

Waste Transfer Station Redevelopment, Leatherhead (2010)

Responsible for the preparation of a dust assessment for the redevelopment of a waste transfer station including the development of a dust management plan.

Mineral Developments

Air Quality Assessment for Fracking Exploratory Borehole, Nottinghamshire (2016)

Responsible for the assessment of road traffic emissions from additional HGV's for a proposed exploratory borehole in Nottinghamshire in relation to traffic emissions from HGV's. Included compiling, running and analysing data for the ADMS-Roads dispersion model.

Air Quality Assessment for a Slate Quarry Review of Mineral Planning (ROMP) Application, Gwynedd (2016)

Responsible for the preparation of a semi-quantitative dust assessment for a ROMP application for a Slate Quarry, Gwynedd.

Air Quality Assessment for a Quarry Extension, Jersey (2016)

Responsible for the preparation of a semi-quantitative dust assessment to support an application for a quarry extension, Jersey.

Air Quality Assessment for an Extension to a Limestone Quarry, Powys (2016)

Responsible for the preparation of a semi-quantitative dust assessment for an application for a limestone quarry extension, Powys.

Air Quality Assessment for a Limestone Quarry ROMP Application, Carmarthenshire (2015)

Responsible for the preparation of a qualitative dust assessment for a ROMP application for a limestone quarry, Carmarthenshire.

Air Quality Assessment for an Extension to a Sand and Gravel Quarry, Lincolnshire (2015)

Responsible for the preparation of a semi-quantitative dust assessment for an extension to a Sand and Gravel Quarry, Lincolnshire.

Air Quality Assessment for a Limestone Quarry ROMP Application, Cardiff (2015)

Responsible for the preparation of a semi-quantitative dust assessment for a ROMP application for a limestone quarry, Cardiff.

Data Analysis Report for Opencast Coal Site (OCCS) Ambient Dust Monitoring, Derbyshire (2013-2014)

Responsible for preparation of 6 monthly reviews of ambient dust monitoring results for automatic PM₁₀ monitoring and nuisance dust monitoring for an OCCS to meet the requirements of the environmental permit.

Air Quality Assessment for three Limestone Quarries, Bridgend (2014)

Responsible for the preparation of a semi-quantitative dust assessments for ROMP and IDO applications including baseline nuisance dust monitoring using frisbee gauges and adhesive strips, Bridgend.

Air Quality Assessment for a Concrete Batching Plant, Southampton (2014)

Responsible for the preparation of a qualitative dust assessment for a concrete batching plant and aggregate unloading dock, Southampton.

Air Quality Assessment for an OCCS, Glamorgan (2013)

Responsible for the preparation of a semi-quantitative dust assessment for a revised application for the continuation of working and remediation of an OCCS, Glamorgan.

Air Quality Assessment for a Quarry ROMP Application, Gloucestershire (2013)

Responsible for the preparation of a semi-quantitative dust assessment for a ROMP application for the recommencement of a mothballed quarry, Gloucestershire.

Air Quality Assessment for a Limestone Quarry ROMP Application, Buxton (2013)

Responsible for the preparation of a semi-quantitative dust assessment for an ROMP application for a limestone quarry, Buxton.

Air Quality Assessment for a Quarry ROMP Application, Merthyr Tydfil (2013)

Responsible for the preparation of a semi-quantitative dust assessment for an application for a quarry, Merthyr Tydfil.

Air Quality Assessment for a Sand and Gravel Quarry Extension Application, Manchester (2013)

Responsible for the preparation of a semi-quantitative dust assessment for an extension for a sand and gravel quarry, Manchester.

Residential, Commercial and Industrial Developments

Air Quality Assessment for a Proposed Residential Development, Caerphilly (2016)

Responsible for the preparation of an air quality assessment of a proposed residential development in Caerphilly in relation to traffic emissions and construction dust. Included compiling, running and analysing data using the ADMS-Roads dispersion model and preparing a detailed report.

Car Manufacturing Site Redevelopment, Warwickshire (2016)

Responsible for the preparation of an air quality assessment for an industrial site expansion and redevelopment in Warwickshire. This included undertaking 6 months baseline diffusion tube monitoring and included compiling data for, and running, the ADMS-Roads model, analysing the output and preparing a detailed report.

Air Quality Assessments for a Proposed Residential Development, Caerphilly (2015)

Responsible for the preparation of an air quality assessment of a proposed residential development in Caerphilly. This included undertaking 6 months baseline diffusion tube monitoring and included compiling data for, and running, the ADMS-Roads model, analysing the output and preparing a detailed report

Air Quality Assessments for a Proposed Residential Development, Faversham (2014)

Responsible for the preparation of an air quality assessment of a proposed residential development in Faversham in relation to traffic emissions and construction dust. Included compiling, running and analysing data for the Breeze Roads dispersion model and preparing a detailed report.

Air Quality Assessment for a Proposed Commercial Development, Glasgow (2013)

Responsible for the preparation of a construction dust assessment for a proposed commercial development on Queens Street, Glasgow.

Ambient Air Quality Monitoring

Nuisance Dust Monitoring at a Limestone Quarry, Oxfordshire (2009-2016)

Responsible for managing a long term dust monitoring project using frisbee gauges and adhesive strips and producing quarterly summary reports for two limestone quarries in Oxfordshire, to meet requirements of the sites environmental permit.

Baseline Ambient Air Quality Monitoring at Ecological Sites, Kent (2015)

6 months diffusion tube monitoring for sulphur dioxide and NOx at a Special Area of Conservation (SAC) site in Kent.

Ambient Air Quality Monitoring for Various EfW and Anaerobic Digestion Facilities (2009-2015)

Design and implementation of diffusion tube monitoring scheme for various pollutants including NOx, NO₂, SO₂, acid gases and VOC's for 6 months or annual periods.

Nuisance Dust and Particulate Matter Monitoring for a Construction Site, Kent (2014/2015)

Design and implementation of dust monitoring scheme using frisbee gauges and handheld particulate matter monitor at a construction site in Kent.

Odour

Odour sampling at Waste Water Treatment Works (WWTW) in Somerset, South Yorkshire and Scarborough (2013-2015)

Assisting with odour monitoring to derive site specific emissions rates to support air quality assessments for residential developments.

Odour Sampling at Restaurants in Cardiff and Birmingham (2013)

Assisting with odour monitoring to derive site specific emission rates for air quality assessments in relation to complaints.

Odour Baseline Survey WWTW, Mid Sussex (2014)

Undertaking Sniff Testing field work at a WWTW in Sussex to support an air quality assessment.

Miscellaneous

Automatic Sulphur Dioxide Monitoring at Brick Works, Peterborough (2009-2016)

Undertaking monthly visits to two automatic monitoring stations to download data and check monitor readings. Included compiling, analysing and reporting concentrations for the sites environmental permit.

Landfill Gas Surface Emission Surveys (2009-2016)

Design and implementation of Phase 1 and Phase 2 landfill gas surface emissions surveys using a Flame Ionisation Detector (FIDs) for a number of landfill sites including one company's entire portfolio.

Occupational Dust Monitoring for various sites including Waste Facilities, Mineral Sites and Industrial sites (2010-2016)

Design and implementation of an occupational dust monitoring scheme for a number of different types of facilities. Including monitoring for inhalable dust, respirable dust and respirable crystalline silica.

Ammonia Monitoring at an Anaerobic Digestion Facility (2015)

Responsible for the design and implementation of a monitoring scheme to measure ammonia exposure over a week using sorbent tubes and electrochemical sensor devices, in order to support a legal dispute.

Hydrogen Cyanide Monitoring at a Historical Landfill (2014)

Assisted with the design and implementation of an innovative monitoring scheme to measure HCN from the surface of the landfill.

Pollution Inventory Reporting (2009-2016)

Responsible for the calculation and submission of annual pollutant emission calculations to the Environment Agency and Scottish Environmental Protection Agency for a number of landfill sites. Emissions to air calculated using Gassim2.5 and Gassim Lite.