

planning  
transport  
design  
environment  
infrastructure

Document 3.1 – ES Volume 2

Appendix 1.1: Environmental Statement Author CV's

Wheelabrator Kemsley (K3 Generating Station) and Wheelabrator Kemsley North  
(WKN) Waste to Energy Facility DCO

September 2019 -Submission Version

PINS ref: EN010083





**David Archibald**  
**Director, Transport and Infrastructure**  
 MSc BSc(Hons) MCIHT TPS

David has over 17 years' experience in preparing transport appraisals, Transport Assessments, Environmental Impact Assessments and transportation inputs to Environmental Statements for a large range of NSIP, energy, wind farm, renewable, residential, commercial, waste, landfill and mixed use development sites. This experience includes analysis and impact assessment, the preparation of access strategies with consideration of current national and local planning policy guidance and sustainability issues and undertaking EIA.

**Experience**

David is a senior member of the Transport team based in the Oxford office providing transport and access advice and project managing the transport elements for a wide range of development proposals throughout the UK.

This experience includes the preparation of access strategies with consideration to current national and local planning policy guidance and sustainability issues, transport input to masterplans, analysis and impact assessment, sustainable transport assessment, Environmental Impact Assessment and the progression of development proposals through the planning process.

David is highly experienced in consulting and negotiating with Highways England, Transport Scotland, Transport for London, Welsh Government and Local Highway / Road Authorities on all transport and access requirements for major development proposals including the agreement of mitigation measures and Planning Obligations. He is also highly experienced in liaising and consulting with third parties and other interested bodies.

He has a demonstrable track record and regularly attends public consultation and key stakeholder events as well as speaking at Planning Committee Meetings, appearing at Hearings, Examinations in Public and acting as Expert Witness at Public Inquiry. David has also given evidence as Expert Witness to Select Committee in the House of Commons.

David has a particular expertise in preparing the transport related documents associated with obtaining Development Consent Orders (DCO) for Nationally Significant Infrastructure Projects (NSIP). David is experienced in preparing the submission documents, preparing written responses to submissions from all parties throughout the Examination process, together with appearing and contributing to Issue Specific Hearings and other transport related Hearings.

David also specialises in developing transport and access strategies, undertaking Environmental Impact Assessments and preparing transport related documents for high profile and complex projects, as evidenced by his experience, in particular NSIPs which require a detailed and evidenced strategy along with close liaison with Statutory Consultees to enable successful outcomes.

**Key Projects**

**South Hook CHP**  
**QPI Global Ventures Limited / Total Gas and Power Business Services S.A.S. / ExxonMobil Power Ltd**  
 Undertaking of EIA and preparation of a Transport Assessment, Travel Plan and Transport Chapter for an ES to support a DCO application for a Combined Heat and Power Facility and participation through the Examination stage.

**Derby Waste PFI**  
**RRS (United Utilities / Interserve)**  
 Development of integrated access strategies, Undertaking of EIA and preparation of a Transport Assessment, Travel Plan and Transport Chapter for an ES for a Gasification EFW facility and three accompanying Waste Transfer Stations for the entire Derby City and County Council administrative area. Expert Witness and presenting of evidence at Public Inquiry with extensive public liaison.

**Brig y Cwm, Merthyr Tydfil**  
**Covanta Energy Ltd**  
 Undertaking of EIA and preparation of a Transport Assessment, Travel Plan and Transport Chapter for an ES to support a DCO application for an EFW of 750,000 tpa and participation through the Examination stage.

**Hornsea Three**  
**Dong Energy / Orsted**  
 Undertaking of EIA and preparation of a Transport Assessment, Travel Plan and Transport Chapter for an ES to support a DCO application for the onshore infrastructure components of an offshore wind farm, including substation, booster station, landfall and 55km length of cable.



## Fiona Prismall

### Technical Director, Air Quality

MSc, BSc (Hons), CEnv, MIAQM, MIEEnvSc

Fiona Prismall is a Technical Director within the Air Quality team. She has a BSc in Pure Mathematics, an MSc (Distinction) in Applied Meteorology and is a Chartered Environmentalist, Member of the Institution of Environmental Sciences and Member of the Institute of Air Quality Management (IAQM). Fiona is the IAQM committee secretary. Fiona was a member of the working groups that produced the IAQM 2014 'Guidance on the assessment of dust from demolition and construction' and the EPUK&IAQM 2017 'Land-use Planning & Development Control: Planning for Air Quality' guidance.

### Experience

Fiona has extensive experience in undertaking air quality assessments for a broad range of developments including waste management facilities, major transport infrastructure schemes, minerals operations, industrial installations, commercial, retail, residential and mixed-used developments. She regularly undertakes detailed assessment work using advanced atmospheric dispersion models (ADMS and AERMOD), the Highways Agency Design Manual for Roads and Bridges (DMRB) model, WebTAG, WelTAG, GIS and emissions inventory packages. Her experience also includes drafting Dust Management/Action Plans and Odour Management Plans for waste facilities, designing and implementing monitoring campaigns, devising air quality action plans to reduce or avoid adverse air quality impacts and assisting local authorities with air quality management/action planning.

She provides odour and dust advice to support Surrey County Council's Planning Development Control Team to determine planning applications and accompanying Environmental Statements for minerals working schemes/sites and waste disposal, handling and processing facilities (including landfill sites, energy from waste, recycling, composting) under a framework arrangement.

Fiona has also undertaken intensive expert witness training provided by the Highways Agency and acted as an expert witness both preparing and presenting evidence. She has attended a number of council meetings and public exhibitions, providing air quality information and responding to queries from councillors and the general public.

Over recent years, Fiona has managed the air quality inputs for a large number of major projects.

### Key Projects

#### **Short Term Operating Reserve STOR Power, Statera, Centrica**

Leading team assessing impacts of emissions to air from over 55 separate STOR proposals for planning and permit applications over a 2-year period.

#### **South Hook CHP Exxon Mobil/Total Gas**

Assessment of air quality impacts from proposed 500 MWe CHP supplying heat for re-gasifying.

#### **Hoddesdon Sustainable Energy Facility**

**Trent Developments**  
Assessment of an Advanced Thermal Treatment Plan and a CHP combusting biogas from AD plant.

#### **Suffolk Energy from Waste SITA, UK**

Preparation of the PPC Application and co-ordination of supporting assessments.

#### **Avonmouth Green Energy Plant W4B Bristol Limited**

Preparation of evidence for a proposed green energy plant using energy crops to generate electricity

#### **Wealden Brickworks Britaniacrest Recycling Ltd**

Assessment of the air quality impacts, including plume visibility study from an energy from waste plant.



## Jon Pullen

### Operational Director, Air Quality

Ph.D, Chartered Scientist (C.Sci), Chartered Chemist (C.Chem), Member of the Royal Society of Chemistry (MRSC), Fellow of Institute of Air Quality Management (FIAQM), Member of the Institution of Environmental Sciences (MIEnvSc)

Jon Pullen is a Chartered Chemist, Chartered Scientist, a Member of the Royal Society of Chemistry, a Fellow of the Institute of Air Quality Management and a Member of the Institution of Environmental Sciences. Jon's PhD centred on the effects of acid air pollutants on concretes and he has more than 25 years post-graduate experience in environmental assessment and monitoring. Jon sits on the committee of the Institute of Air Quality Management.

Jon's experience of assessing air quality impacts includes hydrocarbon developments (oil and gas fields, oil refineries), minerals operations (quarrying, open-cast mining, exploratory drilling), energy (fossil fuel power stations, biomass, windfarms), waste management facilities (thermal treatment, mechanical and biological treatment, transfer stations, landfill), industrial installations and wastewater treatment works. Jon is the County Air Quality Consultant to Surrey County Council under a framework agreement to provide their planning department with specialist advice for minerals, hydrocarbons and waste applications. As well as infrastructure projects, Jon routinely assesses the air quality impacts of mixed-use, commercial and retail development schemes. He advises on the exposure implications of residential developments in areas of existing poor air quality and recommends mitigation measures to allow development to proceed.

Other experience includes: assessments of toxic micro-pollutants, nuisance dust, suspended dust, odour and bioaerosols; assessments of Best Available Techniques (BAT) and design of management measures to control air quality impacts, including Odour Management Plans (OMPs), Dust Management Plans (DMPs) and Construction Environmental Management Plans (CEMPs); and design and management of ambient air quality monitoring programmes.

Jon is author of the IEMA Handbook chapter on environmental monitoring and measurement. He has worked closely with the Environment Agency (EA), having written many of its Technical Guidance Notes on source and ambient air quality monitoring around industrial sites and waste management facilities, developed their Operator Monitoring and Assessment (OMA) audit scheme for air, and sat on their steering group that developed the MCERTS qualification for emissions monitoring for industrial compliance. Jon managed three EA research projects on odour, published as EA Science Reports. Whilst on secondment at Defra, Jon drafted the Code of Practice on Odour Nuisance from Sewage Treatment Works, and has given Expert Witness evidence at Inquiry for air quality and odour impacts. Jon is a co-author of the IAQM best practice guidance publications on: odour impact assessments for planning; construction dust assessments; minerals dust impact assessment; and the Institute's Position Statement on air quality mitigation.

### Roosecote Power Station

#### Centrica

ES chapter for an 80 MW power station DCO burning virgin and waste wood. Provided expert advice on air quality and health at local public exhibitions and council committee meetings.

### Greenwich Energy Centre

#### E.on

Assessment of 12 MW CHP at sensitive human receptors and sensitive historic artefacts in nearby museum.

### Hornsea Two Offshore Wind Farm

#### SMartWind

ES chapter and supporting assessments for DCO application. Risk-based assessment of dust effects associated with the landfall, cable route and substation in the areas of Hull, the East Riding of Yorkshire and the northern districts of Lincolnshire.

### Farm AD Facility, Isle of Wight

#### Wight Farm Energy LLP

Impacts on local air quality from the operation of the on-site CHP plant and the potential for odour issues during operation of the AD facility.

### Barkip AD Plant, Beith, Scotland Scottish & Southern Energy

Odour sampling and dispersion modelling of an AD plant digesting farm and animal waste materials to produce biogas to power gas engines.



## Kathryn Barker

### Air Quality Consultant

MSc, BSc (Hons), AMIEnvSc

Kathryn has an MSc in Environmental Pollution Control and a BSc in Environmental Science. She is an associate member of the Institute of Environmental Sciences and the Institute of Air Quality Management.

## Experience

Since joining RPS in September 2015, Kathryn has worked on air quality assessments of traffic related pollutants for both residential and mixed-use developments, air quality neutral assessments for developments in London, and odour assessments. She has experience of modelling point source emissions including energy from waste facilities, developments with energy centres and short term operating reserves facilities. She has conducted assessments for construction phase effects, operational effects and site suitability for proposed developments. Kathryn has also worked on various monitoring projects including NO<sub>2</sub> monitoring using diffusion tubes, dust monitoring during the construction phase and odour assessments including “sniff testing” at developments near sewage treatment works.

Whilst at RPS, Kathryn has gained experience using software tools such as ADMS 5 and ADMS Roads, GIS and emissions inventories.

## Key Projects

### Short Term Operating Reserves STOR Power, Statera, Centrica

Air quality assessments to support the planning and permit applications for numerous STOR sites. The assessments included stack height determinations and dispersion modelling using ADMS 5.

### Kemsley K3 Wheelabrator

Assessment of air quality impacts from a 75MW generating station. The assessment included modelling of cumulative effects from existing point sources at the Paper Mill.

### Atlantic Recycling, Cardiff Atlantic Recycling

Air Quality Assessment to support the permit application for a small waste incinerator. The assessment included modelling of stack emissions and an assessment of operational dust.

### Llandow Estate

#### South Wales Wood Recycling

Air quality assessment for an industrial facility including a stack height determination and dispersion modelling using ADMS 5.



## Tom Dearing

### Principal Environmental Consultant – Climate Change

MSc, BA (Hons), CEnv, MIEMA

Tom specialises in carbon and climate change assessment, working in RPS Planning and Development. Tom has a technical background in carbon footprinting and has built on this during seven years' experience undertaking carbon reporting and climate change assessments for clients in the waste, aviation, major energy infrastructure, and oil & gas sectors. This has included writing expert witness testimony for several public inquiries.

## Experience

Since joining RPS in July 2010, Tom's experience in climate change and sustainability assessment has encompassed a wide range of developments, including applications for nationally significant infrastructure projects such as power stations, airports, and waste management facilities. He also provides corporate-level carbon management, reporting and verification to clients in the commercial and oil & gas sectors.

He has a high level of technical expertise in carbon footprinting and low-carbon energy generation coupled with substantial practical experience in supporting developments successfully through the planning application process.

In 2013 to 2014 Tom provided carbon footprint, climate change risk/adaptation and GHG permit services to one of the UK's largest (500 MWe) proposed gas-fired CHP plants, and he has previously provided carbon footprint assessments for a number of waste and bioenergy power plants across the UK, including those in Norfolk, Suffolk and South Wales. Many of these projects have been at the "major/nationally-significant infrastructure project" scale, attracting a high level of regulatory and public scrutiny.

Tom's other projects include carbon assessment and sustainability advice to London City Airport and Gatwick airport, and advising Melbourne Airport on climate change risks. He has worked with Dart Energy to write expert witness testimony regarding GHG emissions from coal bed methane during an inquiry and provides corporate carbon footprint verification for SOCO Plc and Cairn Energy Plc.

As a Chartered Environmentalist with substantial experience of carbon and climate change assessment in EIA and the planning system, Tom is ideally placed to ensure the requirements of the Revised EIA Directive in these areas are met.

## Key Projects

### South Hook CHP Plant

#### ExxonMobil and Qatar Petroleum

Preparing DCO application documents and environmental permit application for 500 MWe gas-fired CHP linked to the UK's largest LNG terminal. Carrying out carbon footprint and climate change adaptation assessment. Advising on EU ETS compliance and GHG permit application

### Roosecote Biomass Power Station Centrica Plc

Carbon footprint of 80MW biomass / waste wood power station, replacing gas-fired generation. Biomass import transport scenarios and decay of waste wood in landfill were modelled.

### Willows Power & Recycling Centre (Norfolk B EFW)

#### Cory and Wheelabrator

Assessment of GHG emissions from waste incineration and reductions through exported energy, set in the context of a comparison with alternative waste management options (landfill baseline, MBT-composting, AD).

### Falkirk and Stirling Coal Bed Methane

#### Dart Energy

Support to public inquiry following for a coal bed methane production wells project in Scotland comprising 14 drilling sites, associated development, and a gas/water treatment plant, with a focus on climate change, methane leakage and air quality.



## Tara Barratt

### Health Impact Assessment Consultant

MSc, DIC, BSc (Hons), AIEMA

Tara has a Master of Science in Environmental Technology with a focus in Environmental Epidemiology following a Bachelor of Science in Geography. This academic background enables Tara to have broad understanding of environmental and social issues, while in addition having more health-specific experience in subjects such as epidemiology and exposure assessment.

Practically, Tara has experience in assisting with the delivery of Health Impact Assessment projects for a range of energy and other infrastructure projects in both Ireland and the UK.

## Experience

Tara has experience writing and managing Population and Health ES chapters and standalone Health Impact Assessment's for a series of energy-related projects with scales varying from Development Consent Order projects and Nationally Significant Infrastructure Projects to the Hybrid Bill Process and local planning. Tara plays a key role in the following:

- undertaking detailed research tasks including literature reviews for a range of environmental and socio-economic health pathways;
- undertaking scoping exercises and presenting findings in reports;
- undertaking extensive data collection and analysis of publicly available statistics to create project and area-specific health and wellbeing baselines;
- completing qualitative and quantitative assessments to set into context environmental and socio-economic implications of proposed developments and community exposure to a range of health pathways;
- development of quantitative health assessment methods to assess the health impacts of night-time noise exposure and unemployment; and
- developing sets of bespoke recommendations and Health Action Plan reports to reduce negative health outcomes and improve community health where possible.

Tara also provides iterative support to clients, such as providing a briefing note based on available literature relating to the Leukaemia clusters and population mixing theory. This was in relation to community concern surrounding a new nuclear facility within Cumbria.

Tara has excellent technical capabilities and provides Geographic Information Systems (GIS) support where needed on a number of projects.

## Key Projects

### Upperchurch Grid Connection Ecopower

Three separate EIARs for the Upperchurch grid connection, ancillary works and replacement forestry.

### Carraigcannon Wind Farm

Research into the health impacts from wind turbine noise to support a High Court case hearing.

### Moorside Project

#### NuGen

HIA for the Moorside new nuclear development site and associated off-site developments.

### Sizewell C

#### EDF Energy

HIA for Sizewell C new nuclear development.

### M28 Motorway Scheme

Complementary Health Study and support on Oral Hearing for the proposed M28 major infrastructure project in Cork, Ireland.

### Dublin Airport

#### DAL

HIA support on a proposed change in permitted operations.

### Curraghinalt Gold Mine Project SRK Consulting (UK) Ltd

HIA support for data collection and assessment of cyanide on human and animal health.



**Stephen Scott**  
Senior Consultant, Acoustics  
MEng MIOA

Stephen Scott is a Senior Acoustic Consultant with RPS and has more than 15 years of experience in Acoustics, noise and vibration. He holds a Master of Engineering degree in Engineering Acoustics and Vibration from Southampton University and is a Corporate Member of the Institute of Acoustics.

His role comprises technical guidance and quality management within the acoustics team. He is expert in acoustic modelling of a variety of environmental noise and vibration sources and a skilled expert witness.

### Experience

Stephen joined RPS in 1997 as an Assistant Acoustic Consultant, was promoted to Acoustic Consultant in April 2000 and Senior Consultant in 2002. Key skills include environmental, industrial and construction noise monitoring, prediction, modelling and analysis, vehicle noise and vibration measurements, system development and support to in-house noise and air-quality models, monitoring and procedure.

Planning: preparing and management of technical noise and vibration assessments to support planning applications for residential, commercial, industrial, leisure and transport related projects.

Environmental Impact Assessment: preparing noise & vibration environmental statements for EIA.

Road traffic noise & vibration: assessing noise & vibration effects resulting from construction and operation of new or modified road schemes on residential or otherwise-sensitive properties.

Railway noise & vibration: assessing noise & vibration effects resulting from construction and operation of new or modified rail schemes on residential or otherwise-sensitive properties.

Aircraft noise: prediction and assessment of human response to aircraft noise for a wide range of airport sizes

Industrial Noise assessment: prediction and assessment of industrial noise with regards to planning, noise nuisance, and health & safety at work (hearing protection). Provision of design specification and mitigation options.

Construction Noise: prediction and assessment of construction noise. Development of construction codes of practice. Preparation of Section 61 Consent applications under the Control of Pollution Act 1974. Exceedance monitoring and provision of mitigation options.

Building acoustics: provide acoustic specification for facades, windows etc. for residential developments and schools.

Noise mapping: manipulation of large data sets to allow extensive or complex road, rail or construction scenarios to be modelled.

### Key Projects

#### Al Qatrana QEPC

Provided expert witness at international arbitration hearing to assist in the resolution of a dispute between power station commissioner and procurement supplier.

#### CHP Facility South Hook LNG Ltd

Provide noise & vibration environmental assessments for planning and permitting of a combined heat and power facility within a national park.

#### Stansted Second Runway BAA

Assess road and rail noise effects of transport options associated with a second runway at Stansted airport

#### Crossrail Crossrail Ltd

Prepare the Environmental Statement and provide noise and vibration support to the Crossrail project. Key areas of responsibility included baseline noise monitoring and construction noise modelling to allow assessment of impact and mitigation options, enabling worksites in tightly constrained areas to operate through 24-hour tunnelling. Calculations of operational noise and other transport noise effects were also assessed.





## Graham Moore

### Principal Consultant

BSc (Hons) MSc CGeol FGS

Graham has over sixteen years' experience in geo-environmental and geotechnical consultancy and has a wide range of experience in site investigations, particularly for the regeneration of brownfield sites for commercial residential and mixed use development. Graham works as a Principal Consultant and is a project manager on a wide variety of projects on a range of schemes including commercial, residential and mixed use developments, primary infrastructure, nuclear licensed and non-nuclear licensed sites.

## Experience

Graham has 16 years contaminated land project experience, including the scoping and management of ground investigations, quantitative risk assessments and reporting, remediation design, implementation and verification and undertaking land quality assessments for a variety of purposes including planning, due diligence and environmental permit surrender. Graham has extensive experience of liaisons with clients and regulatory bodies, and in the scoping and management of geotechnical ground investigations for land characterisation and detailed technical design objectives.

As a project manager, Graham has scoped and managed numerous large scale and complex contaminated land ground investigations on a wide range of brownfield / industrial sites including former coal and oil fired power stations, former oil refineries, research and development facilities, paper mills and docklands. The objectives have included the development of land quality assessments to assist with site sales, assisting with environmental permit surrender and to discharge planning conditions.

A number of these schemes required project management of multiple disciplines to provide integrated advice in relation to ecology, flood risk, ground contamination and engineering.

Recently, Graham has fulfilled the role of project manager for several complex geotechnical ground investigation packages for the proposed HS2 rail link.

Graham has worked extensively on nuclear licensed sites including defence sites and former nuclear power stations. Projects have comprised geotechnical and geo-environmental ground investigations for a number of proposed developments, due diligence or for general land quality purposes. The works have involved ground investigations to assess chemical, asbestos, radiological, explosives and ground gas risks and also to provide geotechnical parameters for detailed structural design. Many of the projects have required the completion of quantitative risk assessments to determine potential risks to human health and controlled waters. Several projects have also required the development, implementation and verification of Remediation Strategies to manage identified risks.

## Key Projects

### Former Coal Fired Power Station, North-West England E.ON / Uniper

Project manager for a comprehensive ground investigation to assess levels of contamination at the site to determine Part IIA liabilities and to assist with permit surrender.

### Coal / Oil Fired Power Stations Confidential Clients

Project manager for the assessment of contamination of a portfolio of disused power stations, to assist with site environmental permit surrender and to provide geo-environmental and geotechnical information for a future site sales.

### HS2 Ground Investigations High Speed Network Ltd

Project manager for complex geotechnical ground investigations to assist with the design of the HS2 rail link.

### Nuclear Licensed Sites MoD Client

Project manager for a series of ground investigations to assess levels of chemical, radiological and asbestos contamination at nuclear licensed sites.

### Jealott's Hill Syngenta

Design and management of ground investigations to determine potential environmental liabilities at a research and development site.



## Jonathan Morley

### Principal Consultant

BSc(Hons)Environmental Management

Jonathan has over 12 years' experience, during which time he has secured the skills and technical knowledge required to lead the hydrology and ground conditions team in Leeds. Working within the wider RPS Planning & Environment Team, Jonathan provides expert hydrological, flood risk, drainage and geological support and advice on a range of development opportunities and planning applications, including; residential, commercial, industry and energy schemes, as well as Nationally Significant Infrastructure Projects and Projects of Common Interest.

## Experience

Jonathan is an accomplished project manager, hydrologist and land engineer, heading up the Environmental Team in Leeds. He has significant experience on a range of development schemes with a reputation for providing commercially focussed environmental support on Town and Country Planning Act applications and Development Consent Order throughout the UK, as well as overseas.

He provides client support from the outset with pre-acquisition due diligence advice identifying potential hydrological constraints, producing tailored drainage and flood risk resilience/resistance solutions coupled with consultation support to address complex hydrological issues, aiding clients in realising development investment potential gaining planning permission on constrained sites.

Notable project include; Hornsea Off-Shore wind farm Project One, Two and Three, South Hook CHP, Kemsley 3 and 4 DCO applications, FABLink interconnector project, RENescience Energy Plant in Lostock, Tetney Oil Pipeline replacement for Phillips 66, and a hydrology review to support the £52 billion Jumeira Gardens Masterplan in Dubai.

Over the past seven years Jonathan has provided expert flood resilience/resistance advice and hydraulic modelling support to Western Power Distributions flood resilience programme. Producing over 100 ENA ETR 138 critical infrastructure Flood Risk Assessments (FRA) at key electrical substations. Jonathan's energy sector experience secured the role of lead hydrologist on the National Grids Viking Interconnector project.

Jonathan has also project managed and authored numerous EIAs and FRAs/FCAs documents in line with the NPPF, PPG ID7, TAN15 and Scottish Planning Policy for a range of commercial, industrial, residential and energy developments. These include retail applications, solar farms, Battery Storage and Gas Engine sites, mixed use developments, CHPs, EfW facilities, recycling centres and onshore Wind Farm projects across the UK. He has also produced the evidence base required for the removal of drainage and flood risk related planning objections for several high profile applications. His role required a technical review and provision of detailed evidence. Information supplied later formed the foundation for overcoming planning restrictions at Planning Inquiries and Examinations.

## Key Projects

### Hornsea Projects One and Two Smart Wind Limited

Application for Round 3 Offshore wind farm development. Lead consultant advising on hydrology and DCO for onshore project elements.

### South Hook LNG Qatar Global Ventures Limited

Lead consultant advising on hydrological issues arising from the construction of a new CHP facility forming part of an NSIP application.

### Willows Recycling Centre Cory

Project managed and authored the Phase 1 site assessment, Ground Condition and Hydrogeological Environmental Statement chapter.

### Substation Flood Risk Assessment

#### Western Power Distribution

Lead hydrologist for over 100 flood risk assessments on critical substation sites, including 30 detailed flood models.

### Sustainable Waste Treatment Facility, Lostock

#### DONG Energy

Lead consultant managing and producing the ES and FRA as well advising on hydrological issues and mitigation options.



## Dr Nick Betson

### Associate Director

BSc (Hons) Environmental Science and Agricultural Ecology; PhD Plant Ecology; MCIEEM, CEnv

Nick is an Associate Director with extensive experience on a wide range of projects including many as lead on ecology as part of a multi-disciplinary team working on large scale developments. Combining a strategic appreciation of ecology with a thorough understanding of the environmental impact assessment process, Nick has built up substantial experience of overall project management in relation to ecology with over 15 years' experience in the field.

### Experience

Nick is a highly-experienced ecologist and project manager who has been with RPS for since 2007, setting up and growing the RPS Southampton Ecology Team since 2009. During this time, he has managed the ecology component of 300+ projects, including large-scale infrastructure.

Combining a strategic appreciation of ecology with a thorough understanding of the environmental impact assessment process, Nick has built up substantial experience of overall project management in relation to ecology. As lead ecologist on large-scale EIA projects, this has often included liaison and discussions with key consultees such as Natural England and the Environment Agency, as well as wider stakeholder engagement.

He has undertaken ecological appraisals of a broad range of brownfield and greenfield sites to support planning applications and the development of long-term site management plans, including as ecology lead for EIA and HRA.

Nick has also built up substantial experience of completing air quality impact assessments for designated biodiversity sites, especially in relation to large infrastructure and similar power generation projects. For example, Nick has led this element of the ecology impact assessment process for over a dozen different power generation facilities as well as the proposed widening of the A465 in Wales and the M4CAN. He was also part of the RPS ecology team providing advice to Gatwick Airport Ltd. in relation to a second runway, leading on air quality in relation to ecology.

His BREEAM experience includes completing assessments of a wide range of developments for the University of Cambridge and MoD, as well as internationally in France and Belgium. He has also provided national training workshops for CIEEM on ecology within BREEAM/CEEQUOL (and its successors) and is on BRE's Ecology Consultancy Panel, providing expert advice to BRE on the evolution of ecology within BREEAM.

### Key Projects

**A465 Head of the Valleys Road S2** - Lead ecologist advising on potential air quality impacts to European designated sites as a result of the proposed duelling of the A456 in south Wales.

**M4CAN** – advised the project team in relation to potential assessment of effects of changes to air quality on designated sites from the proposed M4 Corridor Around Newport scheme.

**Sustainable Energy Plant, Sittingbourne** – Led the ecology input to a multi-disciplinary application for new SEP. Included EIA/HRA and a large suite of surveys. Led the implementation of extensive ecology mitigation.

**AD Plant, Kemsley** – In addition to leading the ecology element, managed the over-all RPS input to EIA for a new AD Plant. Responsible for all mitigation implementation.

**Barton Farm, Winchester** – Led the ecology input to the masterplanning and outline application for 2,500 new homes on the edge of Winchester. Lead ecologist for overall project delivery.

**Royal Haslar, Gosport** – Lead ecologist for the EIA/HRA supporting the regeneration of the important historic hospital site. Included extensive bat and badger surveys and associated mitigation design.



**Paul Ellis**  
**Associate, Landscape**  
 BA Hons, Dip LA

Paul is an experienced landscape architect who has worked in the discipline for over 27 years. He has been involved in a diverse range of projects which have required landscape planning, assessment, design and implementation inputs. He has extensive experience in the preparation of Landscape and Visual Impact Assessments for Environmental Statements and townscape and seascape characterisations and assessments. Paul is familiar with the consultation process with both statutory consultees and non-statutory consultees, providing support at public exhibitions. He has appeared as an expert witness at public inquiry, hearings and DCO hearings.

## Experience

Paul is an associate landscape architect within the Oxford office co-ordinating and managing the landscape architectural input to a wide range of multi-discipline and single discipline projects. He has experience in working on assessment and design projects from concept through to approval and beyond to scheme implementation and management. Paul has extensive experience in the assessment of effects on landscape, townscape, seascape and visual resources for energy and infrastructure developments throughout the UK including Scotland. These projects include onshore and offshore wind farms and other Nationally Significant Infrastructure Projects

Paul's past project experience includes the preparation of a landscape, townscape and visual impact assessment for the Kemsley Paper Mill Sustainable Energy Plant at Sittingbourne, including the preparation of photomontages to establish the level of effects on key sensitive receptors.

Paul has worked on a number of solar parks throughout England for a single developer. Effects on landscape character in rural locations was minimised and mitigated through a sensitive design process, responding to site constraints and opportunities.

Paul was the lead consultant involved in the seascape and landscape assessment for a CHP Plant in Pembrokeshire Coast National Park. The outcome of the assessment has played an important role in the iterative design process to provide a solution for both the architectural forms and external treatments to minimise effects on the special qualities of the national park in a coastal location. Paul gave evidence at Hearings on behalf of the Applicant during 2014.

The advice and design development input provided by Paul have led to the successful consent and implementation of schemes in challenging environments. The recently completed Brighton and Hove Wastewater Treatment Works lies adjacent to the South Downs National Park and has been carefully designed, incorporating earth shaping and a green roof to minimise effects on landscape character and visual amenity.

## Key Projects

### **Kemsley Paper Mill Sustainable Energy Plant**

#### **St Regis Paper Company Ltd.**

LTVIA for large scale SEP in coastal location in north Kent. Preparation of two tier ZTV's based on building and stack heights. Preparation of landscape design proposals. Project consented in 2011.

### **South Hook CHP Plant**

#### **QPI Global Ventures Ltd**

Seascape, landscape and visual impact assessment for large scale energy infrastructure scheme in Pembrokeshire Coast National Park. Input to iterative design process to provide a solution in parallel with the adopted Rochdale Envelope approach. Project consented in 2014.

### **Atlantic Array**

#### **RWE NPower**

SLVIA for offshore array in the Bristol channel. Sensitive study area including 3 AONB's and 2 National Parks. Array design development through iterative process.

### **Whitestone Solar Park** **New Energy for the World**

LVIA for a solar park in Eden District Council. Design development and assessment of effects in close proximity to a conservation area and the Lake District National Park. Preparation of photomontages and a glint and glare study in agreement with the Local Authority.



## Dr Nick Cooke

### Director, Historic Environment

BA (Hons), PhD, MCIIfA, FSA

Nick has more than 20 years' professional experience within the historic environment sector in the UK. He has been employed by contracting and consulting organisations that provide archaeological and historic environment services to a wide range of clients. These include transport and infrastructure providers as well as public agencies and private sector developers. His experience includes numerous large infrastructure projects, ranging from major rail and road schemes to airport expansions, renewable energy schemes (including hydro-electric, solar and wind farms) and extensive large scale residential schemes.

### Experience

Nick is a director within the largest team of historic environment consultants in the UK. He has considerable experience in the preparation of input into Environmental Statements for major transport and infrastructure schemes.

He joined CgMs Heritage from Atkins, where he led on several major schemes, including HS2, East West Rail, the A1 Dishforth to Leeming and A1 Leeming to Barton road schemes and the A4 Enniskillen bypass in Northern Ireland. He also worked on several projects for both Severn Trent Water and Thames Water. Prior to working for Atkins Nick worked for nearly 20 years at Wessex Archaeology where he undertook archaeological fieldwork, post-excavation and publication work, before moving in to consultancy and project management. Projects he worked on included Terminal 5 Heathrow, Stansted Mid and Long Term Car Parks, the M4 CAN project, the Channel Tunnel Rail Link (HS1), the A303 Stonehenge bypass, the A46 Newark to Widmerpool Project, the A465 Heads of the Valleys and the Wylfa Newydd nuclear power station.

During his time in archaeology Nick has provided heritage advice on large scale housing schemes, employment schemes, road and rail projects, gas and water pipelines, wind and solar farms, as well as on nuclear power schemes. He is thoroughly familiar with the planning process and Environmental Impact Assessment works, and has also undertaken more bespoke pieces of work – recent work includes contributions to the Historic Environment Research Delivery Strategy (HERDS) and strategy papers on the excavation of major burial grounds, both for HS2 Ltd. He has also acted as advisor on road schemes to both Highways England and Transport Scotland, as well as leading on Cultural Heritage for Transport Northern Ireland on the A4 Enniskillen bypass.

Nick is an experienced all-rounder, with expertise in both planning applications and permitted development. He has experience of working with the different guidances applicable in England, Wales, Scotland and Northern Ireland.

He is currently responsible for archaeological teams in RPS's Cheltenham and Birmingham offices.

### Key Projects

- HS2 - HS2 Ltd**  
 Supported HS2 Ltd, providing bespoke strategy papers, liaison with statutory consultees, scoping, designing and commissioning archaeological works.
- Rhyd y groes wind farm, Anglesey - Natural Power**  
 Cultural heritage lead on successful repowering application for large wind farm on Anglesey
- A1 Leeming to Barton - Highways England**  
 Acted as scheme archaeologist and advisor to Highways England.
- Wylfa Newydd - Horizon Nuclear Power**  
 Designed and managed archaeological fieldwork programme in advance of application for new nuclear power station
- Land at Innsworth - Robert Hitchins Limited**  
 Cultural Heritage lead on large residential development in Gloucestershire