

# FIVE KINGDOM STREET

ENVIRONMENTAL STATEMENT  
ADDENDUM VOLUME IV  
TECHNICAL APPENDICES

JULY 2020

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# 1. Introduction

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## **Appendix 1.1**

# **TECHNICAL CONSULTANT CVS**

# PATRICK LITTLE

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**PIEMA**  
**ASSOCIATE DIRECTOR**  
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## BACKGROUND AND CURRENT ROLE AT CBRE

Patrick joined the Environmental Planning and Assessment team at CBRE in February 2014. With three years of previous experience with two Scotland based environmental consultancy firms, Patrick has worked for a number of public and private sector clients across a variety of sectors including residential, commercial, infrastructure, and renewables. Patrick has a proven track record of providing effective, sustainable and commercially minded environmental advice and successfully managing and coordinating environmental projects from inception to completion.

Patrick has a strong understanding of UK environmental legislation and policy and a good technical knowledge of a variety of environmental disciplines. He is also an accomplished project manager, with experience leading the delivery of EIAs and other environmental projects. Patrick has involvement from the initial tendering stage through to project completion. He is accustomed to liaising with clients, regulators and project teams throughout the duration of the project and is also experienced in technical report preparation, budget management and invoicing.

Patrick is a Practitioner Member of the Institute of Environmental Management and Assessment (IEMA) and has also authored articles for Business Green and IEMA.net.

## RECENT EXPERIENCE

### The Forum, Solent Business Park, Hampshire

Led the provision of EIA advice and co-ordination of environmental assessments in relation to a hybrid planning application for a mixed-use development at a site in Whiteley, Hampshire. The outline component comprised up to circa 9,000 sqm of floorspace for light industrial use, a day nursery, and a gym. The detailed component comprised additional floorspace for a hotel, a flexible restaurant/bar, a multi-storey car park, new access and junction works, new servicing routes, associated parking, and landscaping. CBRE successfully screened out the requirement for EIA for the project and it was granted planning permission in Q1 2020.

### Lesnes Estate, London Borough of Bexley

Currently leading the management and coordination of the EIA for a residential-led mixed-use scheme including circa 2,000 homes and associated commercial floorspace on a site in Thamesmead in the London Borough of Bexley. Responsibilities include co-ordinating the technical assessments, lead author of the Environmental Statement, and undertaking consultations with the local authority and statutory consultees. An outline planning application is expected to be submitted in Q3 2020.

### Civic Centre and Livesey Place, London Borough of Southwark

Led the management and coordination of the EIA for a mixed-use scheme on a brownfield site in Southwark, comprising 372 residential units, circa 2,500 sqm of office and light industrial floorspace, circa 500 sqm of retail/café floorspace and circa 1,500 square metres of floorspace for a place of worship, provided in three buildings, of 38 stories, 24 storeys and 10 storeys respectively. Responsibilities included co-ordinating the technical assessments, lead author of the Environmental Statement, and undertaking consultations with the local authority and statutory consultees. The scheme was granted planning consent in November 2019.

# GEORGINA DOWLING

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**HEAD OF ENVIRONMENTAL PLANNING & ASSESSMENT**  
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## BACKGROUND AND CURRENT ROLE AT CBRE

Georgina joined CBRE in 2016 with over ten years' experience in Environmental Impact Assessment (EIA) and socio-economic and health impact assessment (SIA/HIA). Georgina supports both private and public sector clients throughout the development cycle with regard to environmental matters, providing a single point of contact and co-ordinating technical specialists. Advising on site selection, environmental assessment to support planning applications, and discharge of conditions; Georgina has worked across diverse sectors from mixed-use residential-led urban regeneration to overseas industrial sites.

Georgina specialises in SIA and HIA to support master-planning and planning applications. Ranging from additionality assessments to population projections and child yield calculations, Georgina assesses employment generation, spend, impacts on local services' capacity, and, open space and play space demand.

## RECENT EXPERIENCE

### New Garden Square, Birmingham

Appointed by Calthorpe Estates and U+I Group Plc to co-ordinate the EIA for this previously developed commercial estate of approximately 3.84 hectares (9.49 acres), to the west of the city centre. The proposed development comprised an office-led mixed use scheme including residential, retail (Use Classes A1 – A4) and a hotel.

### Eastern Quarry, Ebbsfleet

Appointed to coordinate and manage the EIA for a s.73 application to vary the consent of this mixed use development for up to 6,250 dwellings, up to 231,000 sq metres of built floorspace for: business premises; education community and social facilities (schools, libraries, health centres, places of worship, sports and leisure centres, community centres, care facilities for the young, old and/or infirm); hotels; theatre; supporting retail and leisure facilities.

### Hale Wharf, London Borough of Haringey

Appointed by Muse Developments and the Canal & River Trust to coordinate and manage the EIA process, and, author the resulting ES for demolition and subsequent construction of around 500 residential units in blocks ranging from 4 to 20 storeys with commercial floor space, parking and retention of three commercial barges. The application site was a peninsula bounded by the River Lee and at its closest point 15m from a Ramsar, Special Protection Area (SPA), and Site of Special Scientific Interest (SSSI).

# GEORGINA DOWLING

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## 1-5 Grosvenor Place, City of Westminster

Appointed by One GP LLP (JV of Grosvenor Britain & Ireland and Hongkong Shanghai Hotels Limited) for EIA co-ordination, BREEAM and Code for Sustainable Homes assessment, and bespoke sustainability KPI target creation for this landmark, legacy hotel and residential apartments. As a result of the changing policy situation in Westminster, the EIA programme was accelerated 50%, the EIA went through a full legal review with minimal comments and the scheme was approved in December 2015.

## North Mole, Gibraltar

Appointed by Nature Port Reception Facilities Ltd. to manage the EIA process and author the resulting ES for the re-provision of the sullage oil recovery and treatment plant situated at the Western Arm of the North Mole, adjacent to the Cruise Terminal. The facilities had been restricted following a serious fire and to enable the Port of Gibraltar to have sufficient sullage capacity the re-provision of the facility was critical. Georgina also presented the EIA findings to the Gibraltar Development & Planning Commission on behalf of Nature Group.

## Hoola, Tidal Basin Road, Newham

Appointed by Hub to co-ordinate the EIA for these 23 and 24 storey towers providing 360 residential units in the Royal Docks close to City Airport, with the accompanying noise restrictions.

## Stratford Centre

Appointed by Catalyst Capital to undertake EIA co-ordination for a new foodstore and student accommodation tower at the Stratford Centre site opposite the new Stratford City development.

## Second Cryogenic Pipeline, Isle of Grain

Appointed by LNG National Grid to provide EIA co-ordination for the development of a second above ground cryogenic liquid natural gas (LNG) pipeline at the Isle of Grain LNG Importation Facility. This 2.4 km pipeline supports the existing pipeline by conveying imported LNG from the carriers docking at jetties on the north bank of the Medway to the processing plant.

## Ingress Park, Dartford

Appointed by Crest Nicholson to undertake EIA co-ordination of the final phase of the Ingress Park development including four residential towers constructed on a pier within Port of London Authority jurisdiction.

# CEARA SHIELDS

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## BACKGROUND AND CURRENT ROLE AT CBRE

Ceara joined the Environmental Planning and Assessment team at CBRE in March 2017 having spent over four years working in a medium-sized multidisciplinary engineering consultancy based in the UK.

Ceara has worked on a range of projects from domestic residential-led mixed-use urban regeneration schemes to overseas industrial sites. She is experienced in Environmental Impact Assessment (EIA) coordination, socio-economic impact assessment (SIA), health impact assessment (HIA) and liaison with technical specialists. Her socio-economic experience includes calculating population and child yield, and assessing employment generation, additionality, housing demand and the impact on local social infrastructure including schools, healthcare facilities and open space and playspace.

Ceara is a member of the Institute of Environmental Management and Assessment (IEMA).

## EXPERIENCE

### Charlton Riverside, Royal Borough of Greenwich

Appointed by Rockwell Residential to coordinate the EIA process and author the resulting ES, including the socio-economic chapter, to accompany the planning application for the redevelopment of an existing industrial site, in order to commence the implementation of the Charlton Riverside Masterplan. This phase includes the demolition of existing buildings and construction of approximately 1,000 residential units, with commercial and community floorspace.

### West End Green & 14-17 Paddington Green, City of Westminster

Appointed on behalf of Berkeley Group to provide the socio-economic assessment of this scheme comprising up to 652 residential units and commercial space. The scheme was consented in April 2016 but as a result of the addition of adjacent 14-17 Paddington Green has been re-assessed.

### Hale Wharf, London Borough of Haringey

Appointed by Muse Developments and the Canal & River Trust to coordinate the EIA process and author the resulting ES, including the socio-economic chapter, for the demolition of existing industrial buildings and construction of around 500 residential units in blocks ranging from 4 to 20 storeys with commercial floor space, parking and retention of three commercial barges.

### Fitzpatrick House, London Borough of Islington

Appointed by Tibbalds Planning and Urban Design to provide the health impact assessment of this scheme comprising the redevelopment of an existing late 80s office building private office space and ancillary retail space.

### Woodside Quarry, Horsforth, Leeds

Appointed by Burford Group Limited to coordinate the EIA process and author the resulting ES, including the socio-economic chapter, to accompany a planning application for the redevelopment of a 20 hectare former stone quarry encompassed by an ancient woodland. The development included the substantial reprofiling of the topography and construction of up to 415 residential units and commercial floorspace.



NAME AND ROLE	ORGANISATION	QUALIFICATIONS	RELEVANT EXPERIENCE
Maddalena Liverani (Partner)	GIA	MSc (ARB) – Building Engineering and Architecture, University of Bologna (Italy)	Over 7 years' experience in providing technical consultancy on Daylight, Sunlight, Overshadowing, Solar Glare and Light Pollution, Climate Based Daylight Modelling (CBDMM), and delivering well daylight residential accommodation in high density environments.
Conor Tierney (Senior Surveyor)	GIA	BSc – Building Surveying, University of Brighton	4 years' experience in providing technical consultancy on Daylight and Sunlight.
Charles Kissien-Woolwich (Environmental Lead)	GIA	MSc - Environmental Science, University of Aberdeen	Consultancy and preparation of Daylight, Sunlight, Overshadowing, Solar Glare and Light Pollution EIA scoping reports and Environmental Statement chapters for GIA's large projects.



## LOTTE TOBERMANN

BA, MSc

**EIA Coordinator**  
**Daylight + Solar Design**

Lotte graduated from the University of Liverpool with an MSc in Environmental Planning with Distinction.

With two years' experience in the industry, Lotte joined GIA in 2019. Lotte works alongside the Daylight and Solar Design and Rights of Light Departments to produce the Daylight, Sunlight, Overshadowing, Solar Glare and Light Pollution EIA scoping reports and Environmental Statement chapters for GIA's large scale projects.

### EXPERIENCE

#### **Imperial 1, London**

Client: **Danescroft**

Date: **October 2019**

Description: **Daylight, Sunlight, Overshadowing and Solar Glare ES chapter.**

#### **Ilford Retail Park, London**

Client: **Montreaux**

Date: **November 2019**

Description: **Coordination and production of the Daylight, Sunlight, Overshadowing and Solar Glare ES chapter.**

#### **Rom Valley Way, London**

Client: **Portland Capital**

Date: **December 2019**

Description: **Coordination and production of the Daylight, Sunlight and Overshadowing ES chapter.**

#### **Hammersmith Magistrates Court, London**

Client: **Dominvs Group**

Date: **February 2020**

Description: **Coordination and production of the Daylight, Sunlight, Overshadowing and Solar Glare ES chapter.**

#### **Belgravia Estate, London**

Client: **Grosvenor**

Date: **April 2020**

Description: **Coordination and production of the Daylight, Sunlight and Overshadowing ES chapter.**

#### **70 Gracechurch Street, London**

Client: **Mighty Oasis International**

Date: **Ongoing**

Description: **Coordination and production of the Daylight, Sunlight, Overshadowing, Solar Glare and Light Pollution ES chapter.**



# Giulia Matteoni



## Profession

Wind Engineering Generalist

## Current Position

Senior Engineer

## Joined Arup

2013

## Years of Experience

5.5

## Nationality

Italian

## Qualifications

BEng, MEng Civil and Structural Engineering, University of Florence

PhD Bridge Aerodynamics, Technical University of Denmark

## Professional Associations

Chartered member of the Institution of Mechanical Engineers (MIMechE)

## Selected Publications

### *Journal (selected)*

'Effects of bridge cable surface roughness and cross-sectional distortion on aerodynamic force coefficients', Journal of Wind Engineering and Industrial Aerodynamics, 2012. 104-106, 176-187

### *Conference (selected)*

'Design of Stadia for Hot Climates: A CFD and Wind Tunnel Analysis on the Importance of the Roof Shape', Building Simulation 2017, San Francisco California USA.

Giulia Matteoni joined Arup in 2013 and has since worked within the Advanced Technology and Research practice on management and execution of wind engineering and environmental physics projects. She developed special expertise in:

- pedestrian wind comfort and structural wind loading studies
- wind climate analyses
- aeroelastic assessments of long span bridges, with design of passive remedial measures
- planning and organization of wind tunnel testing
- use of UK and international codes of practice

She has a PhD awarded by the Technical University of Denmark (2010-2013) for her thesis 'Understanding and simulating vibrations of plain bridge cables under varying meteorological conditions'. This described investigation of the aerodynamic instabilities of bridge stay cables in the dry, wet and iced surface condition.

Wind engineering generalist with extensive experience in building aerodynamics and pedestrian wind comfort studies.

## Selected Project Experience

### *Buildings*

Responsible for the management and execution of pedestrian wind comfort studies for tall buildings in the UK and internationally. Carried out initial assessments of the wind environment using professional judgement. Organised wind tunnel workshops in presence of architects and other design team members to identify areas with significant impact on pedestrian wind comfort and safety and design mitigation solutions. Prepared reports for planning applications, including environmental impact assessments.

Selected project examples: Beagle House (London), 5 Kingdom Street (London), 1A Sheldon Square (London), Atrio (Bogotá), Grain Silo (Cape Town).

Selected architects: Renzo Piano Building Workshop, Roger Stirk Harbour + Partners, Wilkinson Eyre, Foster + Partners, Heatherwick Studio, Arup Associates.

### *Stadia*

#### **Lusail Stadium, Doha**

Wind engineering project manager for the assessment of the iconic Lusail Stadium, to be used for the opening and final games of the 2022 FIFA world cup. Organized three environmental wind tunnel workshops in presence of the client and the design team and provided direct input into the design of passive mitigation measures which minimize the penetration of hot air within the stadium's bowl. Contributed to the validation of the experimental measurements using advanced flow visualization technologies such as Computational Fluid Dynamics (CFD) and particle image velocimetry (PIV).

# Andrew Charles Allsop

**Profession**

Wind Engineer

**Current Position**

Director – Ove Arup and Partners Ltd

**Joined Arup**

1977

**Years of Experience**

41

**Nationality**

British

**Qualification**

MA (Cantab) MEng CEng

MICE FWES

MA Mechanical Sciences

Tripos (Churchill College, Cambridge)

MEng (University of Western Ontario) 1982-1983, obtained while Ken Anthony Memorial Fellow at the Boundary Layer Wind Tunnel Laboratory.

**Professional Associations**

Chartered Engineer

Member of the Institution of Civil Engineers

Fellow of the UK Wind Engineering Society (Scruton Lecturer 2007)

Andrew has been Arup's leading wind engineering specialist since 1987 and in this time has been consulted on the design of most of the wind sensitive structures designed by the Partnership.

He has special expertise in the following:

- Unusual buildings and other structures not well covered by codes of practice
- Application of international codes of practice, wind tunnel and computer modelling
- Evaluation of wind climate and correction for site
- Control of wind induced motions
- Pedestrian level winds, air pollution dispersal around buildings and applications of wind driven natural ventilation

He has wide experience in assessment of environmental wind issues in the UK and internationally, particularly in London and dating back over 30 years.

Arup's culture of sharing and policy of retaining long-term expertise provides a large multiplying factor on the knowledge and experience available to those fronting projects.

**Responsibilities** Currently he runs an international team of full-time wind engineers. Arup's wind team are responsible for providing advice for a large number of unusual (beyond code) projects including use of reliable published information and experience for desk-based studies and specifying targeted wind tunnel testing or other analysis appropriate to the needs of the project.

**Selected Experience** includes all aspects of wind design of structures around the world including environmental winds and microclimate affecting building surroundings, and natural ventilation. International work has included N. and S. America, Africa, Europe, Middle-East, Far-East and Australia.

**UK Buildings** In the City, 50 St. Mary Axe, Heron Tower, The Shard, 122 Leadenhall, 201 Bishopsgate, 52 Lime Street, 6-8 Bishopsgate, and numerous smaller developments in the City and across London. In Leeds, review of wind mitigation for Bridgewater Place and assistance to Leeds planners and developers with outline and detail planning studies. Other environmental studies across the UK include buildings in Bristol, Belfast, Birmingham, Brighton, Blackpool, Liverpool, Manchester, Newcastle, Cardiff, Glasgow and Edinburgh.

## Lois Wheller CV- Tavernor Consultancy

Lois studied literature at the University of Wales (BA, 1993-96) and the University of Sussex (MA, 1997- 8; DPhil, 1999-2003) and has worked for 17 years in the heritage sector of architecture and urban design, initially with Anthony Blee Consultancy, 2003-6.

Lois joined the Tavernor Consultancy in 2006, became Projects Director in 2011 and Company Director in 2017. She has gained considerable understanding of design requirements and the UK planning process in relation to issues of heritage, views and townscape through her work on numerous projects, largely in London, over the last 17 years.

Lois is highly experienced in writing townscape, visual impact and heritage assessments for EIA and advises project teams on these issues during the design process. She has advised on large scale masterplans for Wembley, Old Oak Common and Battersea Power Station, as well as numerous developments within the City of Westminster.