

A30 Chiverton to Carland Cross Environmental Statement

**Volume 6 Document Ref 6.4 ES Appendix 1.1
Competent expert evidence**

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Planning Act 2008
Infrastructure Planning (Applications: Prescribed Forms and Procedure)
Regulations 2009 (as amended)
APFP Regulation 5(2)(a)

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1 EIA Team Competent Experts

1.1 EIA coordinator

- 1.1.1 Jessica Lauren Postance (EIA Lead and Environmental Coordinator) is a Chartered Engineer (CEng), a Chartered Environmentalist (CEnv) and Chartered Water and Environmental Manager (CWEM). Jessica has an MEng (Hons) degree in Environmental and Earth Resources Engineering from Imperial College London (2002).
- 1.1.2 Jessica is a member of the Chartered Institute for Water and Environmental Management (CIWEM) and has worked as a professional environmental engineer since 2002. Jessica is an accomplished environmental generalist, with a broad range of experience and knowledge across many environmental-related disciplines. Jessica provides expert environmental input into a range of infrastructure projects.
- 1.1.3 Jessica has a wealth of experience working on highway schemes in the UK. Jessica has contributed to, actively managed and coordinated, and published a number of highway Environmental Statements in the last 10 years.

1.2 Air Quality

- 1.2.1 Christine McHugh
- 1.2.2 Christine McHugh (Air quality lead) (MA, PhD, MIEEnvSc, MIAQM, AMIOA) is an Associate Director and is Arup's UK lead on air quality. She has 25 years' experience in air quality and is an experienced leader (Project Director and Project Manager) of technical projects including high profile projects and has provided expertise internationally. Christine led the 2007 study of air quality for the expansion of Heathrow Airport, provided planning support and advice to the Greater London Authority for several years, managed a technical support contract for the Environment Agency and spent a year in total in China as EU's air quality expert on the largest technical transfer project at the time, in Liaoning. She has provided air quality reviews and undertaken work on M1 J23a-25 and M1 J13-16, M4 Newport and A66. She led the research project into use of GTL fuels for Highways England and is leading the air quality work for the M25 J10-16 and M42/M40 SMP studies.

1.3 Cultural Heritage

- 1.3.1 Jim Keyte
- 1.3.2 James William Keyte holds a BSc (Hons) in Heritage Conservation and a Postgraduate Diploma in Archaeological Resource Management. I am a Member of the Chartered Institute for Archaeologists, a Member of the Institution of Environmental Sciences, and a Chartered Environmentalist.
- 1.3.3 James has worked as a professional archaeologist for 19 years with positions at Gifford and Partners Ltd (1999-2007) and Ove Arup and Partners Ltd since 2007.
- 1.3.4 The majority of his career has been concerned with assessing the impact of developments upon the historic environment, for both non-EIA and EIA developments. He has worked on projects in a wide range of sectors including mixed use development, energy, education and water. He has worked on a large

number of road and rail schemes, including: A34/4 Junction Chieveley, A303 Stonehenge Improvement (2002-2005), M1 Junction 21-30 Improvement, East Coast Mainline Hitchin Grade Separation, A8 Belfast to Larne Dualling, A120 Little Hadham Bypass, and High Speed 2 Phase 1A and 2B. As a result, James has extensive experience of the impacts to the historic environment that can result from the development of major infrastructure projects.

1.4 Landscape and Visual

1.4.1 Ben Oakman

1.4.2 Ben Oakman is a Senior Landscape Architect. Ben has been a Chartered Member of the UK Landscape Institute for eleven years. Ben has a BSc in Biological Sciences from the University of Bristol and a Masters in Landscape Architecture from Edinburgh College of Art.

1.4.3 Ben has been working as a landscape architect in the UK since 2003 and has focused on landscape planning work, specialising in Landscape and Visual Impact Assessment (LVIA).

1.4.4 Ben has carried out LVIA on developments of various types and size, proposed in a diverse range of settings including Urban (Townscape), Rural (Landscape), and coastal (Seascape). Ben has worked on a wide range of projects across the education, leisure, residential, energy, and infrastructure sectors. Much of this experience is directly relevant to the scope of this LVIA

1.4.5 Ben is required by the Landscape Institute to abide by their Code of Conduct and their guidance on the undertaking of LVIA assessments (Guidelines for Landscape and Visual Impact Assessment¹).

1.5 Ecology and Nature Conservation

1.5.1 Pippa Wood

1.5.2 Dr Philippa Wood is a Senior Ecologist. Philippa is a Member of Chartered Institute of Ecology and Environmental Management (CIEEM). Philippa has a First class BSc (Hons) in Zoology (2002) and a PhD in Ecology (2007) from the University of Southampton. Philippa has also completed a number of small research projects previous to her PhD with Rothamsted Research Centre. She has published technical papers on ecological matters and has presented and spoken at ecological conferences.

1.5.3 Other than the research conducted for her PhD, Philippa has also proposed and conducted research during her career with Arup, to determine site specific impacts so that appropriate and proportionate mitigation can be implemented. This has included research proposals for the construction of the A6 in Northern Ireland to determine actual disturbance effects of a Special Protection Area (SPA) bird species present close to the scheme.

1.5.4 Philippa has been working as a professional ecologist with Arup since 2007, and has been responsible for leading ecological projects and managing other individuals as a Senior Ecologist since 2010. The majority of Philippa's career has been concerned with assessment of ecology for a wide range of projects,

¹ The Landscape Institute / Institute of Environmental Management and Assessment (IEMA), Guidance on Landscape and Visual Impact Assessment, 3rd Edition, 2013.

including assessment of the ecological impacts from major road schemes. Since 2006, Philippa has worked on numerous major road schemes in England, Wales and Northern Ireland, including the M4, A303, A2, A6, A8, A26, A487, Neath Port Talbot Disruptor Road, and the M4 Relief Road. As a result, Philippa has extensive experience in the ecological assessment techniques used for highways proposals.

- 1.5.5 For this assessment, Philippa is the lead ecological expert for the proposals, managing the ecology team that has undertaken the assessment and has had this role since Arup started working on the project at PCF Stage 3.
- 1.5.6 As a Member of CIEEM, Philippa is required to abide by their Code of Professional Conduct, which has been considered when undertaking this assessment.

1.6 Geology and Soils

1.6.1 Lee Taylor

1.6.2 Lee Taylor (Geology and Soils Lead) is a Chartered Geologist and a Fellow of the Geological Society of London. Lee has an MEng (Hons) degree in Geology and an MSc in Applied Environmental Geology, both from Cardiff University.

1.6.3 Lee has worked on engineering geological aspects and Environmental Statements for several highway schemes over a period of over 8 years, including projects within Northern Ireland (A8 and A26), Wales (M4, M4 CEM and A465) and England (A303 Stonehenge). Lee has also worked on the engineering geological aspects of an Environmental Statement for two proposed shale gas exploration wells within Lancashire. He attended public consultation events to communicate the development of risk mitigation in relation to engineering geology.

1.6.4 Stuart Tillett

1.6.5 Stuart Tillett (Geology and Soils co-author) is a Chartered Geologist and a Fellow of the Geological Society of London and a Member of the Society of Brownfield Risk Assessment. Stuart holds an MEng degree in Geology from the University of Southampton.

1.6.6 Stuart has worked as a Geo-Environmental Engineer over a period of 11 years, during which time he has worked on both geotechnical and contaminated land aspects on a wide range of projects. His role has involved site based ground investigation (GI) supervision, undertaking and managing intrusive investigation for the assessment of contaminated land and for geotechnical purposes. Stuart has also supervised and monitored remediation of contaminated land, and provided engineering site support for large scale earthworks projects, mine stabilisation works, and large infrastructure projects. He is also an experienced contaminated land risk assessor, having undertaken numerous preliminary risk assessments, generic and detailed human health and controlled waters risk assessments, ground gas risk assessments, and other contaminated land analysis, assessment and remediation.

1.7 Materials

1.7.1 Tim Wilkinson

- 1.7.2 Tim Wilkinson is a Chartered Geologist and a Fellow of the Geological Society of London. Tim has a BSc (Hons) degree in Geology from The University of Liverpool (2000) and an MSc in Applied Environmental Geology from Cardiff University (2002). Tim has worked as an engineering geologist for 16 years with experience in contaminated land assessments, geotechnical investigation and design, and environmental impact assessments.
- 1.7.3 Tim has provided input to environmental impact assessments for highways and other infrastructure and building developments over the past 11 years including a number of assessments considering the impact on materials resources.

1.8 Noise and Vibration

- 1.8.1 Greg Harris
- 1.8.2 Greg Harris is an Associate in Arup. He holds a Diploma in Acoustics and Noise Control (Institute of Acoustics), and a MSc in Acoustics and Noise Control (Open University). He is a member of the Institute of Acoustics.
- 1.8.3 Greg has over 28 years' experience in environmental noise research and consultancy. He has specialised in highway noise assessment, firstly as a researcher and then in consultancy over the last 17 years. As a researcher at the Transport Research Laboratory in Berkshire he worked as part of a research team on traffic noise prediction methods, vehicle noise testing procedures, tyre noise, studies of road surface noise performance (particularly low noise surfaces) and the assessment of noise barrier performance. Greg provided policy advice on various noise matters to UK and European Government and produced various research reports and guidance documents.
- 1.8.4 Greg was a member of the panel of specialists reviewing the revision draft of the noise assessment guidance within the Design Manual for Roads and Bridges (2006). Greg has also drafted guidance on the design of highway noise screening for the Design Manual for Roads and Bridges (2011). More recently Greg has worked with Highways England providing advice on a range of traffic noise issues including the feasibility of a national, network-wide noise modelling system.
- 1.8.5 Greg has carried out highway noise assessment and mitigation design for schemes in all regions of the UK. Recent schemes include the A465 Dualling (Brynmaur to Tredegar in South Wales, the A8 Dualling (Coleman's Corner to Ballyrickard Road) in Northern Ireland, and the M1 widening (J25-J28) in England. He has also advised on noise assessment of highways schemes overseas.
- 1.8.6 Greg has been leading the noise assessment and mitigation design on the A30 Chiverton to Carland Cross (the Scheme) since June 2017. As part of the environmental assessment team, he was responsible for assessing the noise and vibration effects associated with the proposed scheme and the development of the mitigation design.
- 1.8.7 The Environmental Statement has been prepared in accordance with the Professional Ethics and Code of Conduct of CIWEM.

1.9 People and Communities

- 1.9.1 Allan Pitt

1.9.2 Allan Pitt MRTPI is a Chartered Town Planner working for Arup with more than nine years' relevant experience including EIA. His qualifications include a BSc in City and Regional Planning and an MSc in Regeneration Studies, both from the Cardiff University School of City and Regional Planning.

1.9.1 David Brown

1.9.2 David Brown MRTPI is a Chartered Town Planner working for Arup with more than twelve years' relevant experience including EIA. His qualifications include a BSc in Human Geography and an MSc in Regeneration Studies, both from the Cardiff University School of City and Regional Planning.

1.10 Road Drainage and the Water Environment

1.10.1 Tom Styles

1.10.2 Tom Styles is a Senior Consultant at Arup with 10 years' professional experience following a BSc in Geography (University of Southampton) and an MSc in Catchment Dynamics and Management (University of Leeds). Tom is a Chartered Water and Environmental Manager (CWEM), Chartered Scientist (CSci) and Chartered Environmentalist (CEnv), as well as a Practitioner Member of the Institute of Environmental Management and Assessment (IEMA). He has authored, co-authored and reviewed a number of ES water assessments as well as associated assessments including Water Framework Directive assessments, Flood Risk Assessments and drainage strategies.

1.11 Climate Change

1.11.1 Dr Kristian Steele

1.11.2 Dr Kristian Steele is the climate topic lead for the project and has a history in systems analysis and environmental impact assessment modelling. Kristian works in the Arup Climate Change group where he develops and manages a broad programme of work across the environmental and sustainability fields. Kristian has a Civil Engineering degree MEng (Hons) and a Doctorate in Environmental Technology (EngD) and is a Chartered Environmentalists (CEnv).

1.11.3 Kristian has specialised in climate change with experience across both GHG emissions mitigation and climate change resilience. He is an experienced life cycle practitioner and has led and delivered many system modelling projects. This includes using tools such as life cycle assessment and multi-regional input output assessment. His work has been used to inform policy and strategy advice, gain development consents, guide design projects, advise Governments, sectors and organisations, as well as support product development programmes.

1.11.4 Kristian has over 16 years practitioner experience and has led, contributed, or provided technical review to more than ten EIAs across a broad scope of civil infrastructure and building developments.

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