

# A57 Link Roads TR010034

## 1.3 Introduction to the Application

APFP Regulation 5(2)(q)

Planning Act 2008 Infrastructure Planning (Applications: Prescribed  
Forms and Procedure) Regulations 2009



# Infrastructure Planning

## Planning Act 2008

### The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

#### A57 Link Roads

#### Development Consent Order 202[x]

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### 1.3 INTRODUCTION TO THE APPLICATION

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<b>Regulation Number:</b>	Regulation 5(2)(q)
<b>Planning Inspectorate Scheme Reference</b>	TR010034
<b>Application Document Reference</b>	TR010034/APP/1.3
<b>Author:</b>	A57 Link Roads Scheme Project Team, Highways England

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# Table of Contents

<b>Chapter</b>	<b>Pages</b>
<b>1. Introduction</b>	<b>4</b>
1.1 Purpose of this document	4
1.2 Structure of this document	4
<b>2. The Scheme</b>	<b>5</b>
2.1 Description	5
2.2 Scheme Objectives	6
2.3 Scheme History, Timeline and Future Milestones	6
2.4 Qualification as a Nationally Significant Infrastructure Project	6
<b>3. The Applicant</b>	<b>8</b>
3.1 Highways England	8
3.2 The A57 Link Roads Scheme Project Team	8
<b>4. Application Documentation</b>	<b>9</b>
<b>5. Volume 1: Application Form / Information / Background Information</b>	<b>11</b>
<b>6. Volume 2: Plans, Drawings and Sections</b>	<b>12</b>
<b>7. Volume 3: Draft Development Consent Order</b>	<b>14</b>
<b>8. Volume 4: Compulsory Acquisition Information</b>	<b>16</b>
<b>9. Volume 5: Reports / Statements</b>	<b>18</b>
<b>10. Volume 6: Environmental Impact Assessment</b>	<b>21</b>
<b>11. Volume 7: Other Documents</b>	<b>25</b>
<b>12. Volume 8: Statements of Common Ground</b>	<b>26</b>
<b>13. Glossary</b>	<b>27</b>

## Tables

Table 4-1 Contents of the Application .....	9
Table 9-2 Consultation Report Appendices .....	19
Table 10-1 List of Appendices that support the EIA .....	23
Table 13-1 Abbreviations and Definitions .....	27
Table 13-2 Abbreviations used throughout the Application .....	46

## Figures

Figure 9-1 Overview of consultation timeline.....	18
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# 1. Introduction

## 1.1 Purpose of this document

- 1.1.1 Highways England (“the Applicant”) has submitted an application under Section 37 of the Planning Act 2008 (the “2008 Act”) to the Secretary of State via the Planning Inspectorate (the Inspectorate) for an order to grant Development Consent Order (a DCO) for the A57 Link Roads Scheme (the “Scheme”).
- 1.1.2 This document provides an accessible guide to the Scheme, Applicant and application and it will assist those in reviewing the application documentation.

## 1.2 Structure of this document

- 1.2.1 This document comprises 13 sections as described below:
- Chapter 1 - Introduces this document
  - Chapter 2 - Provides a high-level description of the Scheme
  - Chapter 3 - Introduces Highways England
  - Chapter 4 - Provides an overview of the application documentation – explains the structure of the documentation submitted as part of the DCO application with a summary of each volume
  - Chapter 5 - Provides a list of the application documents within each volume and individual reference numbers
  - Chapter 6 to 12 - These sections explain the purpose of each of the documents submitted
  - Chapter 13 - A glossary of the abbreviations and definitions used within the Application

## 2. The Scheme

### 2.1 Description

- 2.1.1 The Scheme lies mainly within the administrative boundaries of Tameside Metropolitan Borough Council (TMBC), up until to the proposed River Etherow Bridge. To the east of this, the Scheme crosses over the boundary with High Peak Borough Council (HPBC) and Derbyshire County Council (DCC).
- 2.1.2 The A57 and A628 between Manchester and Sheffield currently suffer from heavy congestion, creating unreliable journeys, which limits journey time reliability. This restricts economic growth due to the delays experienced by commuters and business users alike. The congestion also results in rat running through smaller towns and villages, as vehicles attempt to reduce queuing times.
- 2.1.3 The Scheme has been developed to improve journeys between Manchester and Sheffield, and has evolved over more than 50 years, as different improvements have been explored. The current A57 around Mottram in Longdendale suffers from congestion which limits journey time reliability. This restricts economic growth due to the delays experienced by commuters and business users alike. This has a negative effect on local businesses and employment opportunities. The congestion also results in rat running through smaller towns and villages, as vehicles attempt to reduce queuing times. Much of this heavy traffic travels along local roads, which disrupts the lives of communities, and makes it difficult and potentially unsafe for pedestrians to cross the roads. It is likely that these issues would get worse with time, if significant improvements are not made.
- 2.1.4 The Scheme includes the following components:
- A new offline bypass of 1.12 miles (1.8km) of dual carriageway road connecting the M67 Junction 4 to A57(T) Mottram Moor Junction
  - A new offline bypass of 0.81 miles (1.3km) of single carriageway connecting the A57(T) Mottram Moor to the A57 Woolley Bridge
  - Creation of two new junctions, Mottram Moor Junction and Woolley Bridge Junction and improvement works to the existing M67 Junction 4
  - Creation of five new structures (Old Hall Farm Underpass, Roe Cross Road Overbridge, Mottram Underpass, Carrhouse Lane Underpass, River Etherow Bridge and Roe Cross Road overbridge)
  - One main temporary construction compound area, located on agricultural land to the east of the M67 Junction 4
  - Detrunking, including safety measures from the M67 Junction 4 to Mottram Back Moor Junction, to be agreed with TMBC.
  - Safety measures and improvements to the A57 from Mottram Moor Junction to Gun Inn Junction and from Gun Inn Junction to Woolley Lane Junction, to be agreed with TMBC.
- 2.1.5 A full scheme description is provided in the ES [TR010034/APP/6.3] and Case for the Scheme [TR010034/APP/7.1].

## 2.2 Scheme Objectives

2.2.1 The Scheme objectives are listed below:

**Table 2.1 Scheme Objectives**

Objectives Scheme Objectives	Scheme Compliance
Connectivity	By reducing congestion and improving the reliability of people's journeys through Mottram in Longdendale, Hollingworth and Tintwistle and also between the Manchester and Sheffield city regions
Environmental	By improving air quality and reducing noise levels in certain areas, through reduced congestion and removal of traffic from residential areas. The Scheme is also being designed to avoid unacceptable impacts on the natural environment and landscape in the Peak District National Park (PDNP)
Societal	By re-connecting local communities along the Trans-Pennine route
Capacity	By reducing delays and queues that occur during busy periods and improving the performance of junctions on the route

2.2.2 The need for the Scheme is comprehensively set out in the Case for the Scheme including the National Policy Statement Accordance Table [TR010034/APP/7.1].

## 2.3 Scheme History, Timeline and Future Milestones

2.3.1 The main Trans-Pennine route between the Manchester and Sheffield city regions is the trunk road route consisting of the A57, A628, and A61. It connects the M67 at Mottram in the south east of the Manchester City Region with the M1 in the north west of the Sheffield City Region. Current journey times and reliability of the connecting routes compare unfavourably with links between other cities a similar distance apart.

2.3.2 Historically numerous proposals have been considered to address longstanding connectivity and congestion issues in the local area and beyond. The development of the Scheme has been considered alongside wider plans to improve Trans-Pennine connectivity.

2.3.3 A summary of the Scheme history and key future milestones is presented in Chapter 3 of the Environmental Statement [TR010034/APP/6.3] and Case for the Scheme [TR010034/APP/7.1].

## 2.4 Qualification as a Nationally Significant Infrastructure Project

2.4.1 The Scheme is a Nationally Significant Infrastructure Project ("NSIP") within Sections 14(1)(h) and 22(1) of the Planning Act 2008 (the "Act"). Under Section 22 an NSIP must fall within one of the three categories specified, which are expressly stated to be alternatives.

- 2.4.2 The Scheme is construction of a highway in a case within the meaning of Section 22(1)(a). The Scheme is wholly located in England and Highways England Company Ltd, being a strategic highways authority, will be the highway authority for the highway to be constructed as part of the Scheme.
- 2.4.3 The development therefore complies with the requirements of Section 22(2) and 22(4) of the Act. Whilst the Scheme includes some alteration and improvement of the existing A57 the new carriageway will follow a different alignment requiring construction of sections of new highway with a speed limit of 50 miles per hour, over an area in excess of 12.5 hectares.
- 2.4.4 Further confirmation as to the Scheme's qualification as a NSIP can be found in the Explanatory Memorandum [TR010034/APP/3.2].

## 3. The Applicant

### 3.1 Highways England

- 3.1.1 The Applicant is appointed and licensed by the Secretary of State for Transport as the strategic highways company for England. It is responsible for operating, maintaining and improving the Strategic Road Network (SRN) in England, on behalf of the Secretary of State for Transport. The SRN is made up of England's motorways and all-purpose trunk roads (the major "A" roads). The Scheme will be part of the trunk road network for which the Applicant is responsible.
- 3.1.2 Following construction of the Scheme, the Applicant, alongside its delivery partners, will be responsible for operating and maintaining (under its general statutory powers) the A57 Link Roads Scheme.
- 3.1.3 On completion of the Scheme, the existing A57 will be detrunked and passed to TMBC Highway Authority for management and maintenance. The management of the section of the Scheme known as the A57 Link Road between Mottram Moor and Woolley Bridge will be provided to TMBC as highways authority, whilst the management of the shorter Woolley Bridge section will be passed to DCC Highways Authority.
- 3.1.4 The Scheme contact details are:
- A57 Link Roads Project Team  
Highways England  
Piccadilly Gate  
Store Street  
Manchester  
M1 2WD  
Email: Trans\_Pennine\_Scheme@highwaysengland.co.uk  
Telephone: 0300 123 5000

### 3.2 The A57 Link Roads Scheme Project Team

- 3.2.1 The Scheme is managed by Highways England from its Manchester office by the A57 Link Roads Project Team, which is responsible for delivering the Scheme in accordance with the Scheme's requirements.



## 4. Application Documentation

- 4.1.1 A list of documents within the application is set out in the ‘Table of Application Documents’ in the Covering Letter and completed Section 55 checklist [TR010034/APP/1.1], further detail on the documents within the application is provided in the following chapters.
- 4.1.2 If you require a copy of any of the application documents, or parts of them, please contact the A57 Link Roads Project Team (contact details in Chapter Three). A USB containing these documents will be provided free of charge. A request for hard copies will be subject to a reasonable charge to cover the cost of printing and distribution.
- 4.1.3 The reports, drawings and plans that make up the DCO application have been organised into eight volumes as listed in Table 4-1. The eight volumes are explained in more detail in sections 5 to 11.

**Table 4-1 - Contents of the Application**

Volume	Content	
1	Guide to application	The completed application form, Applicant’s covering letter, an introduction to the Scheme and evidence to support compliance with Section 55 of the Planning Act 2008.
2	Plans / Drawings and Sections	These include plans that illustrate the location of the Scheme, the proposed works, the land that will be acquired or used, the streets, roads and private means of access to be stopped up, altered or otherwise provided, scheme layout plans, environmental constraints and engineering details.
3	Draft Development Consent Order	The Draft Development Consent Order is the document that sets out the legal powers that Highways England is seeking to enable it to build, operate and maintain the Scheme, together with a separate document, the Explanatory Memorandum, explaining the provisions of the DCO. The volume also contains a further document setting out the position regarding other consents and agreements.
4	Compulsory Acquisition Information	Documents identifying the land to be acquired or used, and reports justifying the seeking of compulsory acquisition powers over this land and evidence to support the availability of funding to deliver the Scheme.
5	Reports / Statements	Reports including the Consultation Report, Habitat Regulations Assessment No Significant Effects Report and other Reports / Statements

Volume		Content
		relevant to this DCO and not dealt with elsewhere in the application.
6	Environmental Impact Assessment Information	An assessment of the likely significant effects (both positive and negative) of the Scheme on the environment and a description of mitigation measures proposed to reduce any negative impacts. This includes a Non-Technical Summary as well as the full Environmental Statement, figures and appendices.
7	Other Documents	Additional documents that support the DCO application; these are not legally required but provide useful information on the case for the Scheme, including a Case for the Scheme and details of accordance with the relevant National Policy Statement, a Transport Assessment Report, an outline Environmental Management Plan and a report setting out environmental actions and commitments made by the Applicant.
8	Statements of Common Ground	Draft position statements with key stakeholders to confirm those matters which are agreed, plus other matters where no agreement has been reached, which might be considered within the examination of the DCO application.

## 5. Volume 1: Application Form / Information / Background Information

- 5.1.1 The Index of DCO Application Documents is the technical index that applicants must submit with their application to facilitate efficient management and publication of the documents by the Planning Inspectorate. Whilst the Application Index has to be submitted electronically as an excel file, the Applicant has reproduced the Index as a PDF file [TR010034/APP/1.5] so that other interested parties may view a comprehensive list of the application documents.
- 5.1.2 The Covering Letter and Section 55 Checklist [TR010034/APP/1.1] is completed to evidence how the application fulfils the conditions for acceptance by the Inspectorate under Section 55 of the Planning Act 2008. The Schedule of Compliance with Section 55 will also be completed by the Inspectorate on receipt of this DCO application.
- 5.1.3 The Application Form [TR010034/APP/1.2] is a standard form and provides a high-level summary of the Scheme and the documents that have been submitted. It is a form that originates from Schedule 2 of the Infrastructure Planning (Applications: Prescribed Forms and Procedures) Regulations 2009 and is submitted in accordance with section 37(3)(b) of the Planning Act 2008 and Regulation 5(1) of The Infrastructure Planning (Applications: Prescribed Forms and Procedures) Regulations 2009 (APFP Regulations).
- 5.1.4 The Introduction to the Application [TR010034/APP/1.3] is this document.
- 5.1.5 The Guide to Documents to be Certified [TR010034/APP/1.4] is provided to help the Examining Authority and interested parties understand the Draft DCO [TR010034/APP/3.1] through identifying the latest version of any documents that are to be certified as set out in the Schedules of the Draft DCO.

## 6. Volume 2: Plans, Drawings and Sections

- 6.1.1 There are 14 sets of plans, as described below. Where a plan comprises three or more separate sheets, a key plan is provided, showing the relationship between the different sheets. Each plan (and each sheet within a set of plans) includes a key, which explains the use of symbols/lines/shading to denote features and information in the plans.
- 6.1.2 The Location Plan [TR010034/APP/2.1] identifies the location of the Scheme in its wider context.
- 6.1.3 The Land Plans [TR010034/APP/2.2] correspond to the Book of Reference [TR010034/APP/4.3] and, in summary, set out:
- The limits of land to be acquired or used permanently or temporarily
  - The land to be acquired or used permanently for construction, operation and maintenance works for the Scheme
  - Any land over which temporary possession may be taken
  - Any land to be used temporarily and for rights in the land to be acquired permanently
- 6.1.4 The Works Plans [TR010034/APP/2.3] identify works proposed and the limits of deviation where they differ from the Red Line Boundary (RLB) or DCO Order Limits. Most importantly, the plans show the extent of the individual works as listed and described in Schedule 1 of the Draft DCO [TR010034/APP3.1].
- 6.1.5 The Streets, Rights of Way and Access Plans [TR010034/APP/2.4] show any new or altered means of access, stopping up of streets, roads and any diversions, extinguishment or creation of rights of way. They also show the classification of highways which are to be applied to the Scheme as listed and described in Schedule 3 of the Draft DCO [TR010034/APP3.1].
- 6.1.6 The Speed Limits and Traffic Regulations Plans [TR010034/APP/2.5] show the speed limits and traffic regulations, such as clearways and prohibitions, which are proposed to be applied to the Scheme as listed and described in Schedule 3 of the Draft DCO [TR010034/APP/3.1].
- 6.1.7 The Scheme Layout Plans [TR010034/APP/2.6] illustrate the Scheme proposals on an Ordnance Survey base map, including; engineering earthworks; proposed landscaping and environmental mitigation areas; drainage features; the location of new lighting, fencing and barriers; the extent of low noise surfacing for new and improved carriageways; and new and improved routes for pedestrians, cyclists and horse-riders as listed and described in Schedule 1 of the Draft DCO [TR010034/APP3.1].
- 6.1.8 The Engineering Drawings and Sections [TR010034/APP/2.7] show the levels of the proposed works including the ground levels, the height of certain structures and the depths of any cuttings required for the project as listed and described in Schedule 1 of the Draft DCO [TR010034/APP3.1].
- 6.1.9 The Temporary Works Plans [TR010034/APP/2.8] show the location of construction compounds and other works sites, top soil and materials storage locations, the alignment proposed for temporary slip roads required during

construction and construction access proposals as listed and described in Schedule 1 of the Draft DCO [TR010034/APP/3.1].

- 6.1.10 The Nature Conservation Sites and Features Plans [TR010034/APP/2.9] show statutory and non-statutory sites and features of nature conservation importance. These plans should be read in conjunction with Chapter 8 'Biodiversity' of the Environmental Statement (ES) [TR010034/APP/6.3].
- 6.1.11 The Historic Environment Sites and Features Plans [TR010034/APP/2.10] show statutory and non-statutory sites and features of the historic environment, including scheduled monuments, listed buildings and other historic structures, archaeological sites and registered parks and gardens. These plans should be read in conjunction with the figures for Chapter 6 'Cultural Heritage' of the Environmental Statement [TR010034/APP/6.4].
- 6.1.12 The Classification of Roads Plans [TR010034/APP/2.11] are provided to show the classification of the roads included in the Scheme as listed and described in Schedule 3 of the Draft DCO [TR010034/APP3.1].
- 6.1.13 The Culvert and Drainage Plans [TR010034/APP/2.12] are provided to show the extents of the proposed drainage that is required as part of the Scheme as listed and described in Schedule 1 of the Draft DCO [TR010034/APP/3.1].
- 6.1.14 The TPO and Hedgerow Plans [TR010034/APP/2.13] are provided to identify the location of trees protected by Tree Preservation Orders and hedgerows, including Important Hedgerows as listed and described in Schedule 8 of the Draft DCO [TR010034/APP/3.1].
- 6.1.15 The Special Category Land Plans [TR010034/APP/2.14] show the extent of land required for the Scheme which is open space and its location.

## 7. Volume 3: Draft Development Consent Order

7.1.1 The Draft DCO [TR010034/APP/3.1] sets out the powers that Highways England is seeking to enable it to construct and maintain the Scheme. It sets out the parameters for what development would be permitted. It consists of seven parts:

Part 1 Preliminary

Part 2 Principal Powers

Part 3 Streets

Part 4 Supplemental Powers

Part 5 Powers of Acquisition and Possession

Part 6 Operations

Part 7 Miscellaneous and General

7.1.2 This is accompanied by ten schedules as outlined below:

Schedule 1 Authorised Development – lists the works that would be authorised by the grant of development consent, which are shown on the Works Plans and to which the schedule refers.

Schedule 2 Requirements – sets out the conditions that the Applicant would be required to accord with when implementing the development authorised by the DCO.

Schedule 3 Classification of Roads – lists the classifications of new, altered, detrunked and improved highways and details relevant speed limits and other traffic regulation measures. It also sets out the public rights of way.

Schedule 4 Permanent Stopping up and Alteration of Highways, Streets and Private Means of Access – sets out the streets, public rights of way and private means of access that would be permanently stopped up as a result of the Scheme (and any relevant substitutes/replacements to be provided).

Schedule 5 Land in Which Only New Rights May Be Acquired – limits the Applicant's powers of compulsory acquisition in relation to specified plots.

Schedule 6 Modification of Compensation and Compulsory Purchase Enactments for Creation of New Rights and Imposition of Restrictive Covenants – amends relevant compulsory acquisition legislation to ensure that it can apply to the DCO.

Schedule 7 Land of Which Temporary Possession May Be Taken – sets out the land which the Applicant is seeking to possess temporarily for the purpose of constructing the Scheme.

Schedule 8 Hedgerows and Trees - sets out detail on hedgerows and trees which fall within the Scheme that are the subject of Tree Preservation Orders.

Schedule 9 Protective Provisions – includes provisions to protect the interests of various bodies in the context of the Scheme (e.g. statutory undertakers).

Schedule 10 Documents to be Certified – sets out those documents to be certified by the Secretary of State for the purposes of the DCO.

- 7.1.3 The Explanatory Memorandum to Draft Development Consent Order [TR010034/APP/3.2] explains the purpose and effect of each provision in the draft order including why it is considered necessary.
- 7.1.4 The Consents and Agreements Position Statement [TR010034/APP/3.3] sets out the strategy for obtaining the consents, licences, permits and other agreements that may be necessary to construct, operate and maintain the Scheme and how these consents will be obtained.

## 8. Volume 4: Compulsory Acquisition Information

- 8.1.1 In order to implement the Scheme, Highways England will need to use statutory powers to acquire land and rights in land, and to possess and use land temporarily. Highways England is required to provide evidence that the use of these powers would be justified, proportionate and in the public interest. This evidence is set out in a Statement of Reasons [TR010034/APP/4.1], Funding Statement [TR010034/APP/4.2] and Book of Reference [TR010034/APP/4.3] as explained below.
- 8.1.2 The Statement of Reasons [TR010034/APP/4.1] explains that there is a compelling case in the public interest which would justify Highways England's exercise of powers of compulsory acquisition to gain land and rights permanently and to use land temporarily to enable it to construct, operate and maintain the Scheme. The Statement of Reasons comprises a main report together with two appendices: Annex A which sets out the purpose why each plot of land is required and Annex B which details the progress made by the Applicant in seeking to acquire the said land by agreement.
- 8.1.3 The Funding Statement [TR010034/APP/4.2] demonstrates that there is adequate funding available to implement the Scheme, including the payment of compensation to landowners affected by compulsory purchase of land and interests in land.
- 8.1.4 The Book of Reference [TR010034/APP/4.3] identifies all parties who own or occupy land and/or have an interest in or right over the land affected by the Scheme, and/or who may be entitled to make a 'relevant claim' as defined in Section 57 of the Planning Act 2008. The five parts are:
- 1) Part 1
- 8.1.5 Names and addresses for service of each person / organisation within Categories 1 and 2 as defined in Section 57 of the Planning Act 2008, in respect of any land which it is proposed shall be subject to:
- powers of compulsory acquisition.
  - rights to use land, including the right to attach brackets or other equipment to buildings.
  - rights to carry out protective works to buildings.
- 8.1.6 Category 1 interests are owners, lessees, tenants, or occupiers of land. Category 2 interests are those who have an interest in the land or who have the power to sell and convey the land or release the land.
- 2) Part 2
- 8.1.7 Names and addresses for service of each person / organisation within Category 3. These are interests who might be entitled to make a relevant claim if the DCO were consented and implemented, e.g. potential claimants under Part 1 of the Land Compensation Act 1973 (c. 26), Section 10 of the Compulsory Purchase Act 1965, Section 152(3) of the Planning Act 2008. Part 2 consists of two sub-parts:
- 2a) lists potential claimants under Section 10 of the Compulsory Purchase Act 1965



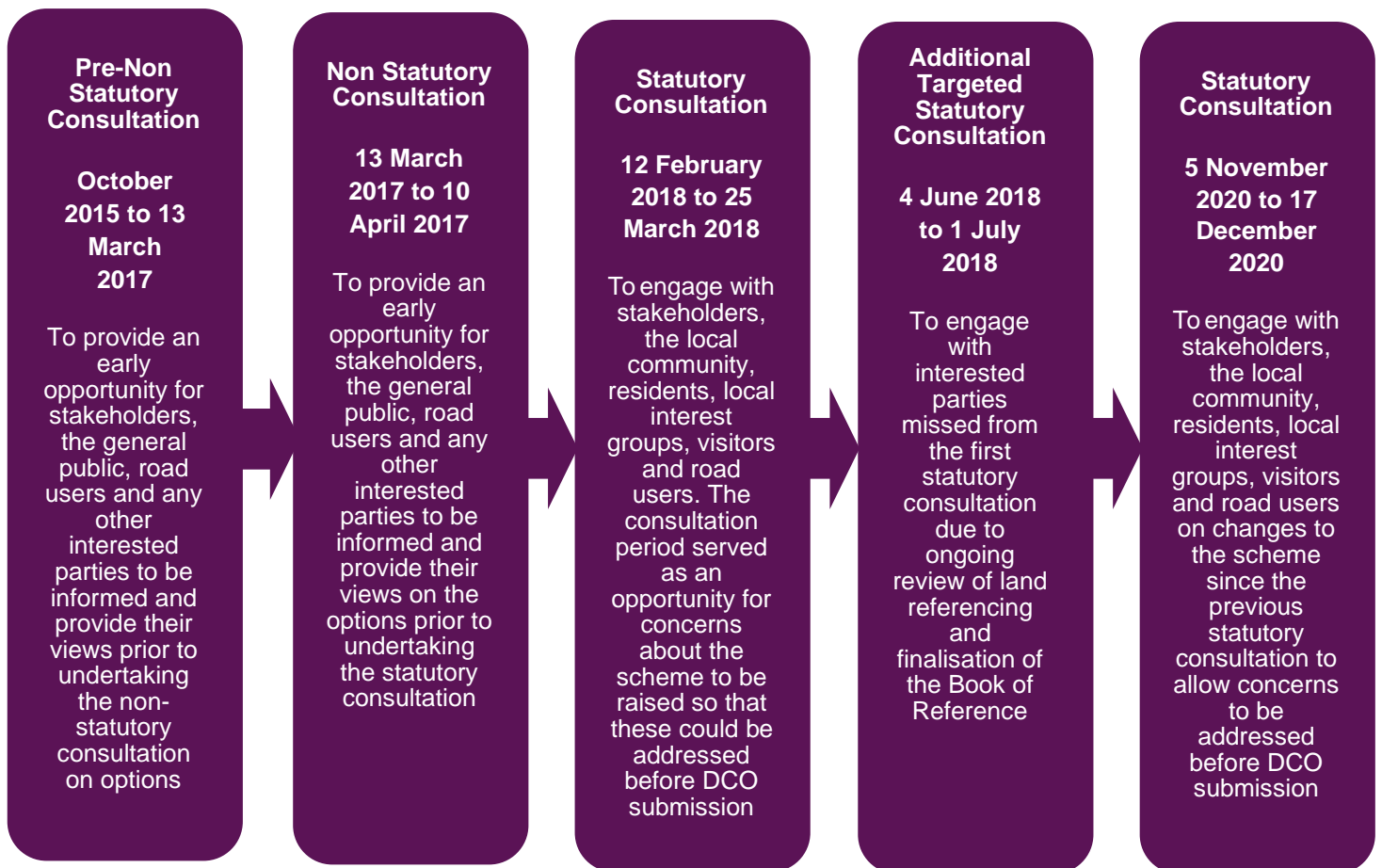
- 2b) lists potential claimants under Part 1 of the Land Compensation Act 1973
- 8.1.8 Both Parts 2a and 2b also list potential claimants under Section 152(3) of the Planning Act 2008 in respect of either Section 10 of the Compulsory Purchase Act 1965 or Part 1 of the Land Compensation Act 1973.
- 3) Part 3
- 8.1.9 Names of all those entitled to enjoy easements or other private rights over land (including private rights of navigation over water) which it is proposed shall be extinguished, suspended or interfered in the proposed DCO. Note: these are also included in Part 1.
- 4) Part 4
- 8.1.10 Owners of any Crown interest in the land which it is proposed to be used for the purposes of the DCO. *This section is not relevant to this Scheme.*
- 5) Part 5
- 8.1.11 Land acquisition which could be subject to special parliamentary procedure, is special category land, or is replacement land.

## 9. Volume 5: Reports / Statements

9.1.1 The Consultation Report [TR010034/APP/5.1] provides an account of the pre-application consultation undertaken on the Scheme. The Report includes details of the statutory consultation which Highways England is required to undertake in accordance with the Planning Act 2008, the informal engagement that has taken place and how the comments received were considered when developing the Scheme. It is a requirement of section 37(3)(c) of the Planning Act 2008 that an application for a DCO is accompanied by a consultation report.

9.1.2 The Applicant has undertaken five rounds of consultation, as set out below:

**Figure 9-1 Overview of consultation timeline**



9.1.3 The Consultation Report comprises a main report and 25 separate Appendixes. Copies of the relevant statutory newspaper notices are provided in Appendix K and V of the Consultation Report. The annexes that support the Report are described below:

**Table 9-2 Consultation Report Appendices**

<b>Appendix Number</b>	<b>Appendix Name</b>
<b>Appendix A</b>	2017 Options Consultation Brochure
<b>Appendix B</b>	The Infrastructure Planning (EIA Regulations) 2017: Regulation 8(1) Notification letter to the Inspectorate & acknowledgement
<b>Appendix C</b>	Copy of the Draft 2018 SoCC Provided to Local Authorities
<b>Appendix D</b>	Letter to Local Authorities for 2018 SoCC Consultation
<b>Appendix E</b>	Response from Local Authorities on the Draft 2018 SoCC
<b>Appendix F</b>	Published 2018 SoCC with Location and Date
<b>Appendix G</b>	List of 2018 Statutory Consultees Compared to the Inspectorate Scoping List and Schedule 1 of the APFP Regulations
<b>Appendix H</b>	2018 S46 Letter and the Enclosures sent to the Inspectorate (with date)
<b>Appendix I</b>	2018 S46 Letter and the Enclosures sent to the Inspectorate (with date)
<b>Appendix J</b>	2018 S47 Consultation Material
<b>Appendix K</b>	2018 S48 Notice and Newspaper Notices with Locations and Dates
<b>Appendix L</b>	2018 List of Any Additional Consultation Recipients (noting their interest)
<b>Appendix M</b>	Tables Evidencing Regard had to 2018 Consultation Responses (in Accordance with S49 of the Planning Act 2008)
<b>Appendix N</b>	Copy of the Draft 2020 SoCC Provided to Local Authorities
<b>Appendix O</b>	Letter to Local Authorities for 2020 SoCC Consultation
<b>Appendix P</b>	Response from Local Authorities on the Draft 2020 SoCC
<b>Appendix Q</b>	Published 2020 SoCC with Location and Date
<b>Appendix R</b>	List of 2020 Statutory Consultees Compared to the Inspectorate Scoping List and Schedule 1 of the APFP Regulations
<b>Appendix S</b>	2020 S42 Letters and Enclosures with Date
<b>Appendix T</b>	2020 S46 Letter and the Enclosures sent to the Inspectorate (with date)
<b>Appendix U</b>	2020 S47 Consultation Material
<b>Appendix V</b>	2020 S48 Notice and Newspaper Notices with Locations and Dates
<b>Appendix W</b>	2020 Table of protected provisions for statutory undertakers.
<b>Appendix X</b>	2020 List of Any Additional Consultation Recipients (noting their interest)
<b>Appendix Y</b>	Tables Evidencing Regard had to 2020 Consultation Responses (in Accordance with S49 of the Planning Act 2008)

9.1.4 There are several other supporting documents which are relevant to and support this DCO application; these are:

9.1.5 A Statutory Nuisance Statement [TR010034/APP/5.2] which identifies the matters set out in Section 79 of the Environmental Protection Act 1990, in respect of statutory nuisances and considers, whether the proposed

development would engage one or more of those matters. Where any matters may be potentially engaged, this statement sets out its proposals for mitigating or limiting them.

- 9.1.6 A Habitats Regulations Assessment - No Significant Effects Report [TR010034/APP/5.3] which presents the Applicant's assessment of the effects of the Scheme on European protected habitats to which the Conservation of Habitats and Species Regulations 2017 (as amended) apply. The purpose of the assessment is to provide sufficient information for the Secretary of State to make an appropriate assessment under the Habitats Regulations. The Habitats Regulations Assessment comprises one volume with four annexes as follows:
- Habitats Regulations Assessment: Stage 1 Screening
  - Habitats Regulations Assessment Figures
  - Habitats Regulations Assessment Annex A: European Designated Sites Plans
  - Habitats Regulations Assessment Annex B: PINS Screening Matrices
  - Habitats Regulations Assessment Annex C: Traffic Data for ARN within the European Sites
  - Habitats Regulations Assessment Annex D: Air Quality Effects on Designated Habitats
- 9.1.7 A Water Framework Directive Assessment Report [TR010034/APP/5.4] which details how the requirements of the European Directive have been met by the Scheme. A Flood Risk Assessment [TR010034/APP/5.5], which assesses the extent to which the Scheme could increase the risk of flooding and detailing the flood mitigation measures incorporated within the Scheme design.
- 9.1.8 An Equality Impact Assessment [TR010034/APP/5.6] has been undertaken to support the Applicant in meeting its statutory requirements under the Public Sector Equality Duty (PSED), as set out in the Equality Act 2010, to support good decision making and to ensure that the Scheme meets the needs of all users of the road network and of local communities, in particular those equality groups covered under the Equality Act 2010.

## 10. Volume 6: Environmental Impact Assessment

- 10.1.1 Highways England has undertaken an Environmental Impact Assessment (EIA) of the Scheme to consider what significant effects the Scheme is likely to have on the environment. The EIA is reported in the Environmental Statement (ES) [TR010034/APP/6.1-6.3] in accordance with The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017.
- 10.1.2 The ES also provides general information on the Scheme including context, description of the Scheme and its construction, main alternatives considered, the consultation process that was part of the EIA and technical information on a range of topics. The ES comprises five separate volumes:
- Environmental Statement Index [TR010034/APP/6.1] which lists all of the components of the ES in full.
  - Environmental Statement Non-Technical Summary [TR010034/APP/6.2].
  - Environmental Statement [TR010034/APP/6.3] – this is the main report of the Environmental Statement.
  - Environmental Statement Figures [TR010034/APP/6.4].
  - Environmental Statement Appendices [TR010034/APP/6.5].
  - EIA Scoping Report and Opinion [TR010034/APP/6.6].
- 10.1.3 The Environmental Statement, Figures and Appendices have been split into a series of separate documents (each carrying the relevant application document reference number consistent with the particular volume to which it belongs). This is to ensure that file sizes do not exceed the 20MB limit to support a potential, virtual examination if required due to COVID-19 regulations. Names of the individual component documents are listed both in the Index of DCO Documents [TR010034/APP/1.5] and in the Environmental Statement Index [TR010034/APP/6.1].
- 10.1.4 The Environmental Statement provides general information on the Scheme including context, description of the Scheme and its construction, the main alternatives considered, the consultation process that was part of the EIA and technical information on a range of topics. This chapter provides an overview of the structure of the document to assist with navigation.
- 10.1.5 The Environmental Statement [TR010034/APP/6.3] includes the following Chapters:
- Chapter 0 Glossary
  - Chapter 1 Introduction
  - Chapter 2 Description of the Scheme
  - Chapter 3 Alternatives Assessment
  - Chapter 4 Environmental Assessment Methodology
  - Chapter 5 Air Quality
  - Chapter 6 Cultural Heritage
  - Chapter 7 Landscape and Visual Effects

- Chapter 8 Biodiversity
- Chapter 9 Geology and Soils
- Chapter 10 Material
- Chapter 11 Noise and Vibration
- Chapter 12 People and Communities
- Chapter 13 Road Drainage and the Water Environment
- Chapter 14 Climate Carbon and Climate Vulnerability
- Chapter 15 Cumulative Effects
- Chapter 16 Summary

- 10.1.6 The Environmental Statement main report [TR010034/APP/6.3] is published in 14 separate documents, with Chapters 1 to 4 in one document and each of the remaining chapters published in a series of separate documents. All have the same application document reference number 'TR010034/APP/6.3' to indicate that they form part of the Environmental Statement main report.
- 10.1.7 The Environmental Statement Figures [TR010034/APP/6.4] are published in 11 separate documents to ensure that no document exceeds the relevant file size limit of 20MB, again all carry the relevant reference 'TR010034/APP/6.4' to confirm that they form part of the Environmental Statement Figures volume. Figures are provided for Chapters 1-4 and for the chapters on air quality, cultural heritage, landscape and visual effects, biodiversity, geology and soils, noise and vibration, population and human health, road drainage and the water environment, and cumulative effects.
- 10.1.8 The Environmental Statement Appendices [TR010034/APP/6.5] comprise 30 separate documents, each carrying the same relevant reference TR010034/APP/6.5. Appendices are provided on a Chapter by Chapter basis, with some chapters such as Air Quality containing up to six separate appendices. Each Appendix is clearly titled with its relevant Environmental Statement Chapter and Appendix number.
- 10.1.9 The Environmental Statement Non-Technical Summary [TR010034/APP/6.2] is structured as follows:
- Introduction
  - The Scheme
  - Alternatives
  - Environmental Statement - scope and approach
  - Assessment of likely significant effects of the Scheme
  - Description of Mitigation Measures
  - What Happens Next

**Table 10-1 List of Appendices that support the EIA**

<b>Appendix Number</b>	<b>Appendix Name</b>
<b>Appendix 1.1</b>	Competent Expert Evidence
<b>Appendix 2.1</b>	Traffic data
<b>Appendix 4.1</b>	PINS Scoping Opinion and Responses
<b>Appendix 4.2</b>	Major Accidents and disasters
<b>Appendix 4.3</b>	Update to Standards and Scope of Assessment since the 2017 EIA Scoping Report
<b>Appendix 5.1</b>	Pollutants
<b>Appendix 5.2</b>	Air Quality Legislation and Policy
<b>Appendix 5.3</b>	Further details on Air Quality Modelling
<b>Appendix 5.4</b>	Air Quality Baseline
<b>Appendix 5.5</b>	Air Quality Model Results
<b>Appendix 6.1</b>	Cultural Heritage Desk-Based Assessment
<b>Appendix 6.2</b>	Archaeology Scope of Works and Written Scheme of Investigation
<b>Appendix 6.3</b>	Geophysical Survey WSI – supplementary survey
<b>Appendix 6.4</b>	Geophysical Survey Report November 2020
<b>Appendix 6.5</b>	Geophysical Survey Report February 2021
<b>Appendix 6.6</b>	Geoarchaeological Assessment and Deposit Model Report
<b>Appendix 7.1</b>	Visual Effects Schedule
<b>Appendix 7.2</b>	Background Photography
<b>Appendix 7.3</b>	Arboricultural Impact Assessment
<b>Appendix 8.1</b>	Biodiversity Baseline and Assessment
<b>Appendix 8.2</b>	CONFIDENTIAL Badger Survey
<b>Appendix 8.3</b>	Aquatic Ecology
<b>Appendix 8.4</b>	Assessment of Likely Significant Air Quality Effects on Designated Habitats
<b>Appendix 9.1</b>	Preliminary Sources Study Report
<b>Appendix 11.1</b>	Baseline Surveys
<b>Appendix 11.2</b>	Construction Plant
<b>Appendix 11.3</b>	Predicted Noise Traffic Levels at Selected Locations
<b>Appendix 11.4</b>	Noise Information
<b>Appendix 13.1</b>	Water Environment Data and Assessments
<b>Appendix 14.1</b>	Carbon Model Data Set
<b>Appendix 15.1</b>	Long List of Developments

10.1.10 The Environmental Statement is accompanied by the EIA Scoping Report and Opinion [TR010034/APP/6.6] which contains a copy of the Applicant’s report and application for an EIA scoping opinion submitted under Regulation 10 of The

Infrastructure Planning (Environmental Impact Assessment) Regulations 2017 on 8 December 2017 and the Planning Inspectorate's response on behalf of the Secretary of State dated 22 January 2018. The Scoping Report and Opinion identify and confirm the scope of the EIA. It is a requirement of Regulation 5(2)(a) of the APFP Regulations that an application for a DCO is accompanied by a copy of a Scoping Opinion, where applicable.



## 11. Volume 7: Other Documents

- 11.1.1 A range of additional documents have been submitted with the DCO application. These documents are not legally required but are intended to provide useful information on the Scheme and aid detailed understanding of the application and its justification.
- 11.1.2 The Case for the Scheme including the National Policy Statement for National Network (NPS NN) Accordance Table [TR010034/APP/7.1] sets out the need for the Scheme, the objectives that it seeks to address, options and alternatives considered and an explanation of the Scheme over time. It sets out how the Scheme meets its objectives and how it aligns with government policy in the National Policy Statement for National Networks (NPS NN).
- 11.1.3 The Environmental Management Plan (EMP) [TR010034/APP/7.2] provides an essential project specific tool to manage on-site construction activities that may affect the environment. The key aims of the EMP are to ensure all environmental mitigation, DCO requirements, consents and licences are met and to minimise and manage the risk of adverse environmental impacts.
- 11.1.4 The Register of Environmental Actions and Commitments (REAC) [TR010034/APP/7.3]. This document lists items, including mitigation proposed in the Environmental Statement and other DCO Application documents, and shows how they are secured in the draft DCO, e.g. through DCO Requirements.
- 11.1.5 The Transport Assessment Report [TR010034/APP/7.4] provides detail on the collection of baseline data and development of traffic models, provides an overview of current highway network performance and future network performance.
- 11.1.6 The Traffic Management Plan [TR010034/APP/7.5] describes the type and extent of traffic management arrangements required to facilitate the construction of the works to provide a safe environment for all those on or travelling through the Scheme.
- 11.1.7 The Ground Investigation Report [TR010034/APP/7.6] details the finding of the ground investigation in the Scheme area and recommendations for construction of the Scheme.
- 11.1.8 The Drainage Design Strategy Report [TR010034/APP/7.7] provides details of the drainage design and the evidence upon which it is based.

## Volume 8: Statements of Common Ground

- 11.1.9 The Scheme has been developed and designed following extensive engagement and consultation. Highways England, as the Applicant, has been and is continuing to work proactively to prepare and agree several Statements of Common Ground (SoCG) to aid the DCO examination process. A SoCG is a written statement prepared jointly by the Applicant and another interested party, the purpose of which is to set out the matters that have been agreed and to identify the most contentious matters upon which agreement has not been reached. They are intended to help provide a focus for further discussion during the examination of the Scheme.
- 11.1.10 DCO examination practice has evolved over time and generally the expectation is that Applicants should now aim to have reached an initial agreement with the relevant parties by the time the preliminary meeting is held. This is the point which marks the commencement of the formal examination stage of the DCO process. The preparation and agreement of SoCGs is an iterative process and it is usual for some updating of documents to be necessary before a final statement is agreed by the end of the examination period.
- 11.1.11 Recognising the significance of the environmental constraints in the location of the A57 Link Roads, plus the care and attention that has been given to designing a comprehensive package of environmental mitigation and compensation measures for the Scheme, the Applicant has worked with various parties, to document agreement on those important aspects of the proposals. The application documents therefore include at this stage, **three** SoCGs as evidence of that engagement. Further iterations of these statements may be submitted as the examination progresses, where it is possible to document further agreement on any outstanding matters or if the relevant parties wish to raise any new matters.
- 11.1.12 Volume 8 of the DCO application also contains a Statement of Commonality [TR010034/APP/8.1], which lists the SoCGs that have been provided. This will be updated as and when new SoCGs are agreed with other stakeholders and interested parties.
- 11.1.13 The application contains three SoCG, as follows:
- Statement of Common Ground with Tameside MBC [TR010034/APP/8.2].
  - Statement of Common Ground with High Peak BC and Derbyshire CC [TR010034/APP/8.3].
  - Statement of Common Ground with Transport for Greater Manchester [TR010034/APP/8.4].

## 12. Glossary

12.1.1 The Glossary contains the abbreviations and definitions used throughout the application for the Scheme.

**Table 12-1 Abbreviations and Definitions**

Term	Description
Above Ordnance Datum (AOD)	Above the mean sea level at Newlyn in Cornwall calculated between 1915 and 1921, taken as a reference point for the height data on Ordnance Survey maps.
Affected Road Network (ARN)	Parts of the road network which are identified as likely to be affected by changes in air quality as a result of a development project.
Aggregate	Granular material (e.g. sand and gravel or crushed rock) that can be used for building and/or civil engineering purposes (e.g. for concrete production).
Agricultural Land Classification (ALC)	The system devised and introduced by the Ministry of Agriculture, Fisheries and Food to classify agricultural land according to the extent to which its physical or chemical characteristics impose long-term limitations on agricultural use. Land is graded between 1 (excellent quality) to 5 (very poor quality), with grade 3 subdivided into agricultural subgrades 3a and 3b.
Air quality action plan	A plan that must be compiled by a local authority if they declare an air quality management area.
Air quality dispersion modelling	An advanced dispersion model used to model the air quality impact of projects.
Air quality exceedance	Where pollutant concentrations exceed an air quality standard.
Air quality limit value	A maximum pollutant concentration to be achieved in the atmosphere, either without exception or with a permitted number of exceedances. Limit values are defined in European Union Directives and implemented in United Kingdom legislation.
Air Quality Management Area (AQMA)	If a local authority identifies any locations within its boundaries where the air quality objectives are not likely to be achieved, it must declare the area as an air quality management area. The local authority is subsequently required to put together a local air quality action plan.
Air quality objective	Objectives are policy targets generally expressed as a maximum ambient pollutant concentration to be achieved. The objectives are set out in the UK Government's Air Quality Strategy for the key air pollutants.
Alluvial deposits	Natural materials deposited within and adjacent to rivers.
Ambient noise	A sound that is totally encompassing in a given situation at a given time usually composed of sound from many sources near and far.
Ancient woodland	Land that has been continually wooded since at least the year 1600AD.
Annual Average Daily Traffic (AADT)	A measure used in transportation engineering and is the number of vehicles that will use a new or improved road on an average day.
Annual Average Weekday Traffic	The average 24-hour traffic volume occurring on weekdays throughout a full year.
Ambient noise	The total sound in a certain situation at a given time usually composed of sound from many sources, near and far.

Term	Description
Amenity	The relative pleasantness of a journey, or the ability of communities to achieve enjoyment and/ or quality of life.
Annual Average Weekly Traffic	Traffic data obtained by calculating weekly traffic flows and then calculating the annual average. Often used in predicting noise levels and air quality, usually in conjunction with other parameters such as average vehicle speed and percentage heavy vehicles.
Annual Exceedance Probability (AEP)	Flood frequency is expressed in terms of an annual exceedance probability, which is the inverse of the annual maximum return period. For example, the 100- year flood (a flood likely to occur once every 100 years) can be expressed as the 1% AEP flood, which has a 1% chance of being exceeded in any year.
Appropriate Assessment	An assessment of the effects of a plan or project on the Natura 2000 network of European sites of nature conservation significance. The assessment focuses on the plan or project's implications for the site and any potential adverse impacts on its integrity.
Aquifer	An underground layer of water-bearing permeable rock, rock fractures or unconsolidated materials (gravel, sand or silt).
A-Road	A type of road prefixed with the letter 'A'. These are the busiest and most direct main roads, apart from motorways, and can be of different standard.
Attenuation pond	A pond designed to hold back water and release it at a controlled flow rate.
At-grade junction	An intersection of highways where the crossing is at the same level.
Baseline conditions	The environment as it appears (or would appear) immediately prior to the implementation of the project together with any known or foreseeable future changes that will take place before completion of the project.
Base year	Reflects the year which the data has been collected.
Basic noise level	A measure of source noise at a reference distance of 10m from the nearside carriageway edge.
Bedrock	Rock that underlies loose deposits such as soil or alluvium.
Below ground level (bgl)	Term used to differentiate below ground from above ground.
Best and most versatile land	Land defined as grades 1, 2 and 3a of the Agricultural Land Classification. This land is considered the most flexible, productive and efficient and is most capable of delivering crops for food and non-food uses.
Biodiversity	The biological diversity of the earth's living resources. The total range of variability among systems and organisms at the following levels of organisation: bioregional, landscape, ecosystem, habitat, communities, species, populations, individuals, genes and the structural and functional relationships within and between these different levels.
Borehole	A hole bored into the ground, usually as part of investigations, typically to test the depth and quality of soil, rock and groundwater. A borehole can also be used to dewater the ground.
Bridge deck	The component of a bridge superstructure that directly supports the road surface and traffic.
British Standards Institution (BSI)	A group which produces British Standards across industry sectors, and which is formally designated as the National Standards Body for the UK.
Buffer	Specified area or distance surrounding a site or feature of interest.

Term	Description
Built heritage	A structure or building of historic value. These structures are visible above ground level.
Bund	An embankment structure.
Bypass	The diversion of a major road to carry traffic around a built-up area, constructed to improve the journey of through traffic and/or improve the environmental conditions along the original route.
Calculation of Road Traffic Noise (CRTN)	A technical memorandum that describes the procedures for calculating noise from road traffic.
Carbon footprint	The total greenhouse gas emissions associated with a particular policy or development.
Carriageway	The width of a highway that can be used by motorised vehicles and non- motorised users, formed by a number of lanes.
Catchment	A drainage/basin area within which precipitation drains into a river system and eventually into the sea.
Chartered Environmentalist (CEnv)	A professional qualification obtained by knowledgeable, experienced, competent and committed environmental professionals.
CH4	Methane
Climate	The climate can be described simply as the 'average weather', typically looked at over a period of 30 years. It can include temperature, rainfall, snow cover, or any other weather characteristic.
Climate change	This refers to a change in the state of the climate, which can be identified by changes in average climate characteristics which persist for an extended period, typically decades or longer.
CO2	Carbon Dioxide
Combined effect	A type of cumulative effect which occurs when different types of activity combine to have an effect on a specific receptor or resource.
Committed development	A development that has full or outline planning permission or is allocated in an adopted development plan.
Compensation (environmental)	Mitigation measures applied where nothing can be done to reduce an environmental impact or effect. An example is habitat and species relocation.
Competent expert(s)	The terms used in the EIA Regulations to describe a suitably qualified and experienced person (or persons) responsible for the preparation of the Environmental Statement, either whole or in part.
Compulsory acquisition	The acquisition of land (or rights over land) without the owner's consent, but in return for compensation.
Congestion	A situation where the volume of traffic is too great for the road, causing vehicles to slow down or stop, often caused by bottlenecks, traffic incidents and junction design.
Conservation Area	An area designated under section 69 of the Planning (Listed Buildings and Conservation Areas) Act 1990 as being of special architectural or historic interest and with a character or appearance which is desirable to preserve or enhance.
Construction and demolition waste	Consists of unwanted material produced directly or indirectly as a result of the construction phase.

Term	Description
Construction compound	Construction compounds will generally act as the points of entry to the worksites from the public highway. They may also be used for major stockpiling of materials such as top soil, and to facilitate transfer of materials to and from the site.
Construction Design and Management (CDM) Regulations 2015	The Construction (Design & Management) Regulations (CDM 2015) are the main set of regulations for managing the health, safety and welfare of construction projects.
Construction Environmental Management Plan (CEMP)	A plan prepared by a contractor which sets out how a construction project will avoid, minimise or mitigate effects on the environment and surrounding area and the protocols to be followed in implementing these measures, in accordance with environmental commitments.
Construction plant	Portable construction machinery and equipment.
Contractor	A general term used to describe an individual or company appointed by a developer to construct or manage a project at a certain price or rate.
Controlled waters	Rivers, streams, estuaries, lakes, canals, ditches, ponds and groundwater as far out as the UK territorial limit. The statutory definition is provided in section 104 (1) of the Water Resources Act 1991 and section 30A (d) of the Control of Pollution Act 1974.
County Wildlife Sites (CWS)	County Wildlife Sites designation is non-statutory but is recognition of a site's high value for wildlife, with many sites being of county and often regional or national importance. They often support characteristic or threatened species and habitats included in Local and National Biodiversity Action Plans.
Culvert	A tunnel (pipe or box shaped) that carries a stream or open drain under a road or railway.
Cumulative effects (or impact)	Effects upon the environment that result from the incremental impact of an action when added to other past, present or reasonably foreseeable actions. Each impact by itself may not be significant but can become a significant effect when combined with other impacts.
Cutting	An earthwork to establish the road foundations (along with embankments), where the road is cut into the landscape, providing potential for visual screening and noise attenuation.
Cycle lane	A lane reserved exclusively for the use of bicycles.
Decibel (dB)	The scale used to measure noise is the decibel scale which extends from 0 to 140 decibels, corresponding to the intensity of the sound pressure level.
Delay	For pedestrians, this is the increase in the 'person-minutes' of the journey times of pedestrians and other non-motorised travelers. For traffic, this is the increase in journey times for drivers and passengers.
Department for Transport (DfT)	Government department responsible for the transport network in England, and for aspects of the transport network in the devolved administrations.
Deposition (dust)	The vertical passage of a substance (e.g. dust) to a surface or the ground.
Design Manual for Roads and Bridges (DMRB)	A series of 15 volumes that provide standards, advice notes and other published documents relating to the design, assessment and operation of trunk roads, including motorways in the United Kingdom, and, with some amendments, the Republic of Ireland.

Term	Description
Design-development	The process in which technical specialists (engineers and environmentalists) refine the design for the various elements of a development project.
Detailed assessment	Method applied to gain an in-depth appreciation of the beneficial and adverse consequences of the project and to inform project decisions. Detailed Assessments are likely to require detailed field surveys and/or quantified modelling techniques.
Determination	The formal judgement as to whether a project requires statutory Environmental Impact Assessment or not.
Development Consent Order (DCO)	The means of applying for consent to undertake a Nationally Significant Infrastructure Project (NSIP). NSIPs include, for example, major energy and transport projects.
Diffusion tube monitoring	Diffusion tubes are a pollutant specific method of monitoring and measuring different pollutants, including measuring oxides of nitrogen (NOx). Diffusion tubes passively absorb the pollutant to which they are exposed in each place over a period, generally 2-4 weeks, and the tube is then returned to the laboratory for analysis.
Digital terrain model	A digital terrain model is a 3D representation of a terrain's surface.
Directive	Legal obligations imposed on European member states by the European Union.
Disbenefit	A disadvantage or loss resulting from something.
Diverge	The point where two streams of traffic split and go in different directions.
Do-Nothing (DN) scenario	The Do-Nothing forecasting scenario is simply the existing network without modification in the Opening/ Design Year.
Do-Minimum (DM) scenario	The Do-Minimum forecast scenario in the Opening/ Design Year is the base road and traffic network against which alternative improvements can be assessed. In many cases, the definition of the Do-Minimum is straightforward; it is simply the Do-Nothing scenario. However, 1 or more of the following 4 cases may arise, in which the 'Do-Minimum' differs from the 'Do-Nothing': i) The case where works will be carried out regardless of whether or not the Do-Something scheme is built. ii) The case where the existing network may be improved to form a 'Do- Minimum' scheme which can be tested as an alternative to carrying out major Do-Something improvements. iii) The case where traffic conditions can be improved without significant capital expenditure. iv) The case where the area covered by the modelled network includes road proposals other than the one under immediate consideration.
Do-Something (DS) scenario	The Do-Something forecast scenario is the road proposal under consideration in the Opening/ Design Year.
Driver stress	The adverse mental and physiological effects experienced by a driver traversing a road network.
Dumb-bell	A type of grade-separated junction which takes the form of a roundabout either side of a major road, linked by a bridge.
Dust	All airborne particulate matter.
Earthworks	The removal or placement of soils and rocks such as in cuttings, embankments and environmental mitigation, including the in-situ improvement of soils/rocks to achieve the desired properties.
Ecosystem	Biological community of interacting organisms (e.g. plants and animals) and their environment.

Term	Description
Effect	Term used to express the consequence of an impact (expressed as the 'significance of effect'), which is determined by correlating the magnitude of the impact (or change) to the importance, value or sensitivity of the receptor or resource, in accordance with defined significance criteria.
Embankment	Artificially raised ground, commonly made of earth material, such as stone, on which the carriageway is laid.
Embedded mitigation	Mitigation measures incorporated (embedded) into the design of a development project, for example earthworks to visually screen traffic movements in available views.
Emission factor toolkit	Tool used to assist local authorities in carrying out Review and Assessment of local air quality as part of their duties under the Environmental Act 1995.
Enabling works	Enabling works are preparations to make a building site ready for construction. It covers activities from site preparation, creation of access routes, and the installation of facilities like security fencing, ramps, and placing of signs.
Enhancement	A measure that is over and above what is required to mitigate the adverse effects of a project.
Envirocheck	A provider of environmental data, reports and risk solutions for use in site-based assessments.
Environmental/ Ecological Clerk of Works (ECoW)	Supports compliance with legislation and planning conditions but also provides advice and guidance throughout construction.
Environmental assessment	A method and process by which information about environmental effects is collected, assessed and used to inform decision-making.
Environmental Health Officer (EHO)	A local authority officer with responsibilities for protecting public health through the administration and enforcement of environmental health legislation.
Environmental Impact Assessment (EIA)	A process by which information about environmental effects of a proposed development is collected, assessed and used to inform decision making. For certain projects, EIA is a statutory requirement.
Environmental effect	The consequence of an action (impact) upon the environment such as the decline of a breeding bird population as a result of the removal of hedgerows and trees.
Environmental impact	The change in the environment from a development such as the removal of a hedgerow.
Environmental masterplan	Plan which illustrates the mitigation measures integrated into the design of the Scheme.
Environmental Quality Standard (EQS)	Standards that have been developed with the aim to meet the requirements of the WFD Directive.
Environmental Statement (ES)	A document produced in accordance with the EIA Directive as transposed into UK law by the EIA Regulations to report the results of an EIA.
European Economic Area (EEA)	The European Economic Area (EEA) was established via the EEA Agreement, an international agreement which allows for the extension of the EU's single market to non-EU member parties.
European Protected Species	Species of plants and animals (not birds) which are protected by European law.



Term	Description
European site	<p>The generic term used to describe the following designated sites:</p> <ul style="list-style-type: none"> <li>• Special Areas of Conservation (SACs) and Special Protection Areas (SPAs);</li> <li>• Sites that are in the process of designation as SACs and SPAs - these are known as proposed SACs (pSACs), candidate SACs (cSACs), potential SPAs (pSPAs) and Sites of Community Importance (SCIs), depending on the type of designation and point of progression through the designation process; and</li> <li>• Ramsar Sites.</li> </ul>
Examining Authority	A panel of inspectors appointed by the Secretary of State who are responsible for examining DCO applications for nationally significant infrastructure projects.
Excavated material	Largely natural soil and rock material that is removed from the ground during construction.
Exchange land	Mitigation land which is not smaller in area and is equally advantageous to the users of land taken by a development project.
False cutting	A means of screening the road from the surrounding landscape.
Farm viability assessment	An assessment which establishes the current operational and economic conditions of agricultural businesses and how a development project could affect their future viability.
Fill	Material used to artificially raise the existing ground levels.
Find spot	A term used to describe the location at which an archaeological find was discovered.
Flood Risk Assessment (FRA)	The process of assessing potential flood risk to a site and identifying whether there are any flooding or surface water management issues that may warrant further consideration or may affect the feasibility of a development.
Flood Zone	Flood Zone definitions are set out in the National Planning Policy Guidance. Used to create a flood map for planning risk. There are 3 flood zones which refer to the probability of river and sea flooding, ignoring the presence of defences.
Flood Zone 1	Flood Zone 1: land outside the floodplain. There is little or no risk of flooding in this zone;
Flood Zone 2	Flood Zone 2: the area of the floodplain where there is a low to medium flood risk; and
Flood Zone 3	Flood Zone 3: the area of the floodplain where there is a high risk of flooding.
Floodplain	Land adjacent to a watercourse over which water flows or would flow in times of flood, but for defences in place.
Fluvial	A term that relates to rivers and streams and the processes that occur within them.
Fugitive dust	Visible emissions of dust that does not come from a definable point source, for example a smoke stack. Typical examples would include stored piles of soil, dry bare earth on construction sites or haul roads etc.
Future baseline	The situation and conditions that would prevail should a proposed development not proceed. Predicted impacts are compared against this theoretical scenario.
Gantry	A bridge-like overhead structure with a platform supporting equipment such as a crane, signals, or cameras.

Term	Description
Regionally Important Geological Sites (RIGS)	Locally designated sites of importance for geodiversity.
Geomorphology	The study of landforms and the processes which create them.
Geophysical survey	A process involving ground-based physical sensing techniques to determine the presence or absence of anomalies likely to be caused by archaeological features, structures or deposits.
Ghost Island	An area of the carriageway suitably marked to separate lanes of traffic travelling in the same direction on both merge and diverge layouts. The purpose of the ghost island at a merge is to separate the points of entry of two slip road traffic lanes. At a diverge it is to separate the points of exit to a slip road.
Grade-separated junction	A type of junction where the major route (or routes) through the junction do not stop and do not cross any other road on the level. Movements to other roads are made using slip roads and bridges.
Green belt	A designation for land around certain cities and large built-up areas, which aims to keep this land permanently open or largely undeveloped.
Greenhouse gases	Atmospheric gases such as carbon dioxide, methane, chlorofluorocarbons, nitrous oxide, ozone, and water vapour that absorb and emit infrared radiation emitted by the Earth's surface, the atmosphere and clouds.
Ground investigation (GI)	An intrusive investigation undertaken to collect information relating to the ground conditions, normally for geotechnical or land contamination purposes.
Ground-borne vibration	Vibration generated by an event such as the pass-by vehicles in a tunnel, propagated through the ground or structure (i.e. not the air) into a receiving building.
Groundwater	All water which is below the surface of the ground and within the permanently saturated zone.
Groundwater source protection zone (SPZ)	Areas defined by the Environment Agency which show the risk from contamination/pollution to groundwater that is extracted for drinking water.
Habitat	The natural home or environment of an animal, plant, or other organism.
Habitat of principal importance	Habitats in England identified as requiring action in the UK Biodiversity Action Plan and which are regarded as having biodiversity conservation priorities.
Habitat Regulations Assessment (HRA)	A Habitat Regulations Assessment is required where a project may have significant effects on a site by affecting its function to support protected habitats or species. Its purpose is to assess the implications of the proposal in respect of the site's ' <i>conservation objectives</i> '. The assessment is undertaken by the competent authority, in this case the Secretary of State.
Handover Environmental Management Plan (HEMP)	A package of information that is handed over to those responsible for the future management and operation of the highway.
Haul road	A temporary road provided within a contractor's site area to allow for the movement of construction material, construction machinery and/or construction labour around the site.
Heavy goods vehicle (HGV)	A commercial carrier vehicle with a gross vehicle weight of more than 3.5 tonnes.

Term	Description
Hectare	A metric unit of measurement, equal to 2.471 acres or 10,000 square metres.
Heritage asset	A building, monument, site, place, area or landscape of historic value.
Highways Agency Drainage Data Management System (HADDMS)	Management system used to store technical information about the location and condition of drainage infrastructure on the network.
Highways Agency Water Risk Assessment Tool (HAWRAT)	A spreadsheet-based application used to determine whether highway runoff is likely to have an ecological impact on surface watercourses.
Highways England	The government agency responsible for the operation, maintenance and improvement of England's trunk roads and motorways.
Historic Environmental Record (HER)	A record of all known archaeological finds and features and historic buildings and historic /landscape features, relating to all periods from the earliest human activity to the present day; maintained by each County and Unitary Authority in the United Kingdom.
Hot rolled asphalt	A common type of road surfacing comprising a dense mixture of mineral aggregate, sand and bitumen.
Hydrogeology	The nature, distribution and movement of groundwater in soils and rocks, including in aquifers.
Impact	Change that is caused by an action; for example, land clearing (action) during construction which results in habitat loss (impact).
Important hedgerow	A hedgerow that is at least 30 years old and which meets certain criteria relating to its particular archaeological, historical, wildlife and landscape value.
Inert waste	Defined in Article 2(e) of EU Landfill Directive (1999/31/EC) as waste that does not undergo any significant physical, chemical or biological transformations: <ul style="list-style-type: none"> <li>• Inert waste does not dissolve, burn or otherwise physically or chemically react, biodegrade or adversely affect other matter with which it comes into contact in a way likely to give rise to environmental pollution or harm to human health; and</li> <li>• The total leachability and pollutant content and the ecotoxicity of its leachate are insignificant and, in particular, do not endanger the quality of any surface water and/ or groundwater.</li> </ul>
Interchange	A term used to describe a grade separated junction that provides free flow from one mainline to another.
Interim Advice Note (IAN)	Guidance notes issued by Highways England which incorporate amendments or additions to the Design Manual for Roads and Bridges.
Invasive species	Non-native UK plants that are invasive, for example Japanese Knotweed.
Junction	A place where two roads meet, regardless of design or layout.
Key characteristics (landscape)	The combination of elements that are particularly important to the current character of the landscape and help to give an area its particularly distinctive sense of place.
Landscape character area (LCA)	Areas of landscape that have a broadly consistent pattern of topography, land use and vegetation cover.
Land take	Land required for the Scheme

Term	Description
Lane	A section of carriageway marked out for the use of traffic, and typically intended for use in one direction.
Laydown area	An area used for the temporary storage of construction equipment and supplies.
Light goods vehicle	A motor vehicle used to carry goods with a total mass of up to 3.5 tonnes.
Link	A section of road between two junctions.
Listed building	A building of special architectural or historic interest. Listed buildings are graded I, II* or II, with Grade I being the highest. Listing includes the interior as well as the exterior of the building.
Local Air Quality Management	A key part in the UK Government's and the Devolved Administrations' strategies to achieve the air quality objectives.
Local Area Model	Traffic model which is used to test the impact of the Scheme on the local road network.
Local Biodiversity Action Plan	A plan that identifies threatened species and habitats and seeks to protect and restore biological systems.
Local Geological Site	Non-statutory geological sites considered worthy of protection for their earth science or landscape importance. Formerly known as Regionally Important Geological Sites.
Local Nature Reserves (LNR)	Local Nature Reserves are a statutory designation made under Section 21 of the National Parks and Access to the Countryside Act 1949 by principal local
Local planning authority	The local authority or council that is empowered by law to exercise planning functions.
Local Wildlife Site (LWS)	Non-statutory sites of nature conservation value that have been designated 'locally'. These sites are referred to differently between counties with common terms including site of importance for nature conservation, county wildlife site, site of biological importance, site of local importance and sites of metropolitan importance.
Lowest Observed Adverse Effect Level (LOAEL)	The lowest concentration or amount of a substance found by experiment or observation that causes an adverse alteration of morphology, function, capacity, growth, development, or lifespan of a target organism distinguished from normal organisms of the same species under defined conditions of exposure.
Low-noise surfacing	See thin surface course.
Made ground	Land where natural and undisturbed soils have largely been replaced by man-made or artificial materials. It may be composed of a variety of materials including imported natural soils and rocks with or without residues of industrial processes (such as ash) or demolition material (such as crushed brick or concrete).
Main river	A river maintained directly by the Environment Agency. They are generally larger arterial watercourses.
Mainline	The carriageway carrying the main flow of traffic, generally traffic passing straight through a junction or interchange.
Material assets	Construction materials and products (from primary (natural assets), recycled or secondary and renewable sources) and built assets such as landfill capacity and mineral safeguard sites and/or peat resources.
Merge	The point where two different traffic flows come together and continue as one.

Term	Description
Mineral safeguarding areas	Areas defined by mineral planning authorities with known mineral resources that are of identified economic or conservation value.
Mitigation	Measures including any process, activity, or design to avoid, reduce, remedy or compensate for negative environmental impacts or effects of a development.
Modelling	The process of estimating changes within an area of interest under a specific set of conditions.
Monitoring	A continuing assessment of the performance of the project, including mitigation measures. This determines if effects occur as predicted or if operations remain within acceptable limits, and if mitigation measures are as effective as predicted.
Multi-Agency Geographic Information Service (MAGIC)	A website which provides geographic information about the natural environment.
National Character Area (NCA)	Areas of England defined by their unique combination of landscape, biodiversity, geodiversity, history and cultural and economic activity.
National Cycle Network	A national cycling route network of the United Kingdom, which was established to encourage cycling throughout Britain, as well as for the purposes of bicycle touring.
National Planning Policy Framework (NPPF)	A planning framework which sets out the Government's planning policies for England and how these are expected to be applied.
National Policy Statement (NPS) for England	Statements prepared and designated by the Secretary of State under the Planning Act 2008, which establish national policy for Nationally Significant Infrastructure Projects, including energy, transport and water, waste water and waste and against which applications for DCOs are assessed.
National Policy Statement for National Networks (NPSNN)	A statement setting out the need for, and Government's policies to deliver, the development of nationally significant infrastructure projects on the national road and rail networks in England.
National Speed Limit	The default speed limit which applies to roads without any posted limit, this being 60mph on single carriageway roads and 70mph on dual carriageways and motorways.
National Vegetation Classification (NVC)	A comprehensive classification and description of the plant communities of Britain, administered by the Joint Nature Conservation Committee.
Nationally Significant Infrastructure Project (NSIP)	Nationally Significant Infrastructure Projects ("NSIP") are large scale developments such as certain new harbours, power generating stations (including wind farms), highways developments and electricity transmission lines, which require a type of consent known as 'development consent' under procedures governed by the Planning Act 2008 (and amended by the Localism Act 2011).
Natura 2000	A network of core breeding and resting sites for rare and threatened species, and some rare natural habitat types which are protected in their own right.
Nitrate vulnerable zone	Areas covering 62% of England designated as a result of the EU's Nitrates Directive in order to reduce the level of nitrates in surface and groundwater. Farmers with land in nitrate vulnerable zones have to follow mandatory rules to tackle nitrate loss from agriculture.

Term	Description
No Observed Adverse Effect Level (NOAEL)	The no-observed-adverse-effect level (NOAEL) denotes the level of exposure of an organism, found by experiment or observation, at which there is no biologically or statistically significant increase in the frequency or severity of any adverse effects (e.g. alteration of morphology, functional capacity, growth, development or life span) in the exposed population when compared to its appropriate control.
Noise barrier	A solid construction that reduces unwanted sound. It may take many forms including: engineering cutting; retaining wall; noise fence barrier; landscape earthworks; a 'low level' barrier on a viaduct; a parapet barrier on a viaduct; or any combination of these measures. Also called an attenuation barrier.
Noise Important Area	Areas identified with respect to noise from major roads and from roads within agglomerations where 'the 1% of the population that are affected by the highest noise levels from major roads' are located according to the results of the strategic noise mapping.
Noise sensitive receptor	These comprise mainly residential buildings, but also include educational buildings, hospitals and places of worship.
Non-hazardous waste	Any waste not defined as 'hazardous' under Directive 91/689/EEC. Examples include soils from ground/site clearance and demolition wastes.
Non-Technical Summary (NTS)	Information for the non-specialist reader to enable them to understand the main predicted environmental effects of the proposal without reference to the main Environmental Statement.
Operational	The functioning of a project on completion of construction.
Ordinary watercourse	Ordinary watercourses include every river, stream, ditch, drain, cut, dyke, sluice, sewer (other than a public sewer) and passage through which water flows and which does not form part of a main river.
Ordnance Survey (OS)	The national mapping agency for the UK.
Outline Environmental Management Plan (OEMP)	The OEMP identifies environmental mitigation measures and has been used to inform the EIA. It defines those environmental commitments and actions which will be implemented (within the REAC). It includes a brief scheme description, identifies the roles and responsibilities of those who will be responsible for managing and reporting the construction phase environmental aspects. The OEMP will be used as a basis for the contractor's development of a Construction Environmental Management Plan (CEMP) and Handover Environmental Management Plan (HEMP).
Overbridge	A bridge crossing over a transport corridor (e.g. a highway).
Parapet	A parapet is a barrier which is an extension of the wall at the edge of a roof, terrace, balcony, walkway or other structure.
Particulate matter (PM)	Discrete particles in ambient air, with diameters ranging between nanometres (billionths of a metre) to micrometres (millionths of a metre).
Pathways	The routes by which pollutants are transmitted through air, water, soils, plants and organisms to their receptors.
Personal Protective Equipment (PPE)	Protective clothing, helmets, goggles, or other garments or equipment designed to protect the wearer's body from injury or infection.
Phase 1 habitat survey	A habitat classification and field survey technique to record semi-natural vegetation and other wildlife habitats.

Term	Description
Photomontage	Inserting an image of a proposed development onto a photograph for the purposes of creating an illustrative representation of potential changes to existing views.
Planning Inspectorate	An executive agency with responsibilities for planning appeals, national infrastructure planning applications, local plan examinations and other planning- related casework in England and Wales.
Pollution prevention guidance (PPG)	A series of guidance notes produced by the Environment Agency to advise industry and the public on legal responsibilities and good environmental practice.
Portal gantry	A structure which spans the carriageway to include directions signing and signals to aid drivers in route finding
Potential Local Wildlife Site (pLWS)	An area being considered against defined nature conservation value criteria. This criteria takes into account the most important, distinctive and threatened species and habitats. If considered suitable pLWS are confirmed as LWS. See Local Wildlife Site.
Preferred option	The chosen design option that most successfully achieves the project objectives and becomes subject to further design and assessment.
Preferred Route Announcement (PRA)	An announcement made by Highways England following the selection of a preferred option or solution for a given road project.
Preliminary Environmental Information (PEI)	Preliminary Environmental Information is defined in the EIA Regulations as: <i>'information referred to in Part 1 of Schedule 4 (information for inclusion in environmental statements) which –</i> <i>(a) has been compiled by the applicant; and</i> <i>(b) is reasonably required to assess the environmental effects of the development (and of any associated development).'</i>
Preliminary Environmental Information Report (PEIR)	A report that compiles and presents the Preliminary Environmental Information gathered for a development project.
Preliminary Sources Study Report (PSSR)	Reports the geotechnical implications for the feasibility of all project options.
Principal aquifer	These are layers of rock or drift deposits that have high intergranular and/ or fracture permeability - meaning they usually provide a high level of water storage. They may support water supply and/ or river base flow on a strategic scale. In most cases, principal aquifers are aquifers previously designated as major aquifer.
Project Control Framework (PCF)	A joint Department for Transport and Highways England approach to developing, delivering and managing major road projects.
Protected species	Species of wild plants, birds and animals which are afforded protection through legislative provisions.
Public right of way (PRoW)	A highway where the public has the right to walk. It can be a footpath (used for walking), a bridleway (used for walking, riding a horse and cycling), or a byway that is open to all traffic (including motor vehicles).
Qualitative	An assessment based on less tangible factors, using professional judgement and/or banding of data
Quantitative	An assessment based on measurable facts and data

Term	Description
Ramsar (site)	Wetland sites that are of international importance, as designated under Article 2(1) of the Convention on Wetlands of International Importance especially as Waterfowl Habitat. Ramsar (Iran), 2 February 1971. UN Treaty Series No. 14583.
Receptor	A defined individual environmental feature usually associated with population, fauna and flora that has potential to be affected by a project.
Record of Environmental Actions and Commitments (REAC)	The REAC forms part of the Outline Environmental Management Plan (OEMP) and defines the environmental actions and commitments which have been identified and developed to mitigate the Scheme's environmental effects. The actions and commitments contained within the REAC are considered embedded mitigation and as such are considered to be in place within the ES assessments.
Remediation	The process of removing a pollution linkage (i.e. by removing one or more of the elements in a source-pathway-receptor linkage) in contaminated land in order to render an acceptable risk. Usually this involves a degree of removal of contaminants and/ or blockage of pathways.
Residual effect	The predicted consequential change on the environment from the impacts of a development after mitigation.
Resource	A defined but generally collective environmental feature usually associated with soil, water, air, climatic factors, landscape, material assets, including the architectural and archaeological heritage that has potential to be affected by a project.
Restoration (ecological)	The re-establishment of a damaged or degraded system or habitat to a level similar to its original condition.
Riparian	Relating to or situated on the banks of a river.
Risk assessment	An assessment of the probability of a hazard occurring that could result in an impact.
River Basin Management Plan (RBMP)	River basin management plans (RBMPs) set out how organisations, stakeholders and communities will work together to improve the water environment.
Road Investment Strategy (RIS)	A document which sets out a long-term vision for England's motorways and major roads, outlining how smooth, smart and sustainable roads will be achieved through investment over a five-year period (2015 - 2020).
Rochdale Envelope	An approach to consenting and environmental impact assessment, named after a UK planning law case, which allows the promoters of development projects to broadly define their schemes within agreed parameters to retain flexibility of design.
Rotary bored piling	
Roundabout	A circular, one-way junction at which other roads meet and terminate.
Runoff	The flow of water over the ground surface.
Scheduled Monument	A ' <i>nationally important</i> ' archaeological site or historic building, given protection against unauthorised change and included in the Schedule of Monuments kept by the Secretary of State for Culture, Media and Sport. The protection given to scheduled monuments is given under the Ancient Monuments and Archaeological Areas Act 1979.
Scheme	All works associated with the M54 to M6 Link Road scheme.



Term	Description
Scoping	The process of identifying the issues to be addressed by the Environmental Impact Assessment process. It is a method of ensuring that an assessment focuses on the important issues and avoids those that are considered to be not significant.
Scoping Opinion	The written opinion of the relevant authority, following a request from the applicant for planning permission, as to the information to be provided in an Environmental Statement.
Scoping Report	A report which records the outcomes of the scoping process and is typically submitted as part of a formal request for a Scoping Opinion.
Screening	The formal process undertaken to determine whether it is necessary to carry out a statutory Environmental Impact Assessment and publish an Environmental Statement in accordance with the EIA Regulations.
Secondary A aquifer	These are permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers.
Secondary B aquifer	These are predominantly lower permeability layers which may store and yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers.
Secretary of State (SoS)	The cabinet minister who (among other things) acts as decision-maker on all national infrastructure applications for development consent.
Setting (cultural heritage)	The surroundings in which a heritage asset is experienced. Its extent is not fixed and may change as the asset and its surroundings evolve. Elements of a setting may make a positive, negative or neutral contribution to the significance of an asset and may affect the ability to appreciate it.
Severance (land)	The splitting of a land holding into more than one part, for example through the introduction of a new section of road.
Severance (non-motorised users)	The perceived separation of residents from facilities and services they use within their community caused by new or improved roads, or by changes in traffic flows.
Significance (of effect)	A measure of the importance or gravity of the environmental effect, defined by generic significance criteria or criteria specific to an environmental topic.
Significant Observed Adverse Effect Level (SOAEL)	The level of noise exposure above which significant adverse effects on health and quality of life occur.
Simple assessment	Initial, brief assessment activity based on the assembly of data and information that is readily available, to fulfil one of the following functions:
Site of Biological Importance	A non-statutory designation used by some local planning authorities to protect locally valued sites of biological diversity described as local wildlife sites by the UK Government.
Site of Importance for Nature Conservation (SINC)	Sites designated by local authorities for the purpose of conserving wildlife.
Site of Special Scientific Interest (SSSI)	Area of land notified by Natural England under section 28 of the Wildlife and Countryside Act 1981 as being of special interest due to its flora, fauna or geological or physiological

Term	Description
	features.
Site Waste Management Plan (SWMP)	A plan that is used to outline how a construction project will avoid, minimise or mitigate effects on waste production and handling on the environment and surrounding area.
Slip road	A connector road within a junction between a mainline carriageway and the local highway network, or vice versa, which meets the local highway network at- grade.
Sound power level	The sound power level of a source is a measurement of the total acoustic power it radiates. The sound power level is an intrinsic characteristic of a source (analogous to its volume or mass), which is not affected by the environment within which the source is located.
Sound pressure level	The parameter by which sound levels are measured in air. It is measured in decibels. The threshold of hearing has been set at 0dB, while the threshold of pain is approximately 120dB. Normal speech is approximately 60dB at a distance of 1 metre and a change of 3dB in a time varying sound signal is commonly regarded as being just detectable. A change of 10dB is subjectively twice, or half, as loud.
Source Protection Zone (SPZ)	Source Protection Zones ("SPZ") show the risk of contamination from any activities that might cause pollution to groundwater sources such as wells, boreholes and springs used for public water supplies. The closer the activity, the greater the risk. SPZs can comprise of up to three main zones (inner, outer and total catchment). A fourth zone of special interest can also occasionally be applied to a groundwater source.
Span	The horizontal distance between two supports of a structure (e.g. piers of a bridge or viaduct).
Spatial scope	The geographic area over which environmental impacts and effects could occur as a result of a development project.
Special Area of Conservation (SAC)	Sites designated under EU legislation for the protection of habitats and species considered to be of European interest.
Species of Principal Importance	Habitats and species of principal importance in England. Section 41 (S41) of the Act requires the Secretary of State to publish a list of habitats and species which are of principal importance for the conservation of biodiversity in England.
Stakeholder	An organisation or individual with a particular interest in a development project.
Standard mitigation	Measures comprising standard techniques and activities which are implemented during the construction of a development project to protect the environment and/or mitigate adverse effects, for example the covering of exposed materials to reduce dust emissions.
Statement of Outstanding Universal Value (OUV)	To be included on the UNESCO World Heritage List, sites must be deemed to be of 'outstanding universal value'. OUV is 'cultural and/ or natural significance which is so exceptional as to transcend national boundaries and to be of common importance for present and future generations of all humanity'. The Statement of Outstanding Universal Value shall be the basis for the future protection and management of the property.
Statutory consultee	Organisations and bodies, defined by statute, which must be consulted on relevant planning matters.

Term	Description
Statutory undertaker (SU)	Companies legally allowed to undertake work in or under the highway network. This usually means those responsible for electric, gas, telecommunications and water supplies
Strategic road network (SRN)	The network of motorways and trunk roads in England.
Study area	The spatial area within which environmental effects are assessed (i.e. extending a distance from the project footprint in which significant environmental effects are anticipated to occur).
Superficial deposit	A geological deposit that was laid down during the Quaternary period. Such deposits were largely formed by river, marine or glacial processes but can also include wind-blown deposits known as loess.
Surface water	Waters including rivers, lakes, loughs, reservoirs, canals, streams, ditches, coastal waters and estuaries.
Sustainable drainage systems (SuDs)	Measures designed to control surface runoff close to its source, including management practices and control measures such as storage tanks, basins, swales, ponds and lakes. Sustainable drainage systems allow a gradual release of water and thereby reduce the potential for downstream flooding.
Swale	A low or hollow place, especially a marshy depression between ridges.
Temporal scope	The duration of time over which environmental impacts and effects could occur as a result of a development project.
Thin surface course	A generic term used to describe a type of road surfacing which has a high stone content, laid at a thickness of less than 50mm. It is applied to reduce the noise resulting from the interaction of vehicle tyres with the road. Also known as low- noise surfacing.
Throughabout	A throughabout is a type of road junction that connects one major road with one or more minor roads using a circled traffic. The major road is the one that passes across the circle traffic.
Trackout	The transportation of dust and dirt from construction sites onto the road network.
Traffic	The total volume of vehicle traffic on a road flowing past a certain point over a year, divided by 365 days.
Transboundary effects	The term used to describe the significant environmental effects of a development project which extend beyond the boundary of the European Economic Area State within which it would be implemented.
Translocation	The transporting and release of species or habitats from one location to another. For example, if an area of land is required permanently for a new development, species can be moved from that site to a suitable alternative location.
Transport Analysis Guidance (TAG)	Guidance produced by the Department for Transport for undertaking transportation studies, appraisals and modelling. Also referred to as WebTAG.
Tree Preservation Order (TPO)	An order made by a local planning authority, under the Town and Country Planning Act 1990, in respect of trees or woodlands. The principal effect of a tree preservation order is to prohibit the cutting down, uprooting, topping, lopping, willful damage or willful destruction of trees without the local planning authority's consent.
Trial trenching (cultural heritage)	A method of on-site archaeological investigation where trenches are dug at intervals across a site to identify any archaeological remains.

Term	Description
Trunk road	A road operated and maintained in England by Highways England.
Two-way trips	A person trip is a one-way journey by one person by any mode of transport, including walking, cycling, privately operated motor vehicles, or any public transport modes. A vehicle trip is a one-way journey by a single privately- operated motor vehicle regardless of the number of persons in the vehicle. Two- way trips refer to the total number of vehicle movements in both directions (i.e. with 200 westbound vehicles and 100 eastbound, there would be 300 two-way trips)
Unacceptable Adverse Effect Level	Extensive and regular changes in behaviour and/or an inability to mitigate effect of noise leading to psychological stress or physiological effects, e.g. regular sleep deprivation/awakening; loss of appetite, significant, medically definable harm, e.g. auditory and non-auditory.
Underbridge (or underpass)	A bridge crossing under a transport corridor (e.g. a highway).
Unexploded ordnance (UXO)	Explosives that did not explode when deployed and thus still pose a risk of detonation.
Unitary Development Plan (UDP)	A statutory document that sets out the council's planning policies for development, conservation, regeneration and environmental improvement activity.
Upgrade	Refers to the physical improvement of a road, through widening of the carriageway or rebuilding a junction.
Utilities	The term utilities can also refer to the set of services provided by these organisations consumed by the public: Coal, electricity, natural gas, water, sewage, telephone, and transportation. Broadband internet services (both fixed- line and mobile) are increasingly being included within the definition.
Vehicle movement	A journey made by a vehicle. This can either be a one way or two-way trip.
Vehicle restraint systems	System installed on a road to provide a level of containment for an errant vehicle such as a safety barrier.
Viewpoint	A place from which something can be viewed.
VISSIM	A type of computer simulation software used in transportation assessments to model how traffic would interact on a given area of the road network.
Visual amenity	The overall pleasantness of the views people enjoy of their surroundings, which provides an attractive visual setting or backdrop for the enjoyment of activities of the people living, working, recreating, visiting or travelling through an area.
Visual receptor	People who may have a view of a proposed development during construction or operation.
Waste	Waste is defined as per the Waste Framework Directive (2008/98/EC) as "any substance or object which the holder discards or intends or is required to discard."
Water Framework Directive (WFD)	The Water Framework Directive (WFD) introduced a new system for monitoring and classifying the quality of surface and ground waters. The Directive requires that Environmental Objectives be set for all surface waters and groundwater to enable them to achieve Good Ecological Potential/ Status by a defined date.
World Heritage Site (WHS)	A site inscribed by UNESCO because of its Outstanding Universal Value under the terms of the UNESCO World Heritage Convention.

Term	Description
Worst-case assumption (or scenario)	An assumption adopted within an environmental impact assessment which identifies a scenario or parameter that would likely result in the maximum environmental effect (termed the worst-case). This is typically applied where uncertainty exists over the detail of a particular development component or approach to project delivery, for which a basis of assessment is needed.
Written Scheme of Investigation (WSI)	A Written Scheme of Investigation outlines known and potential archaeological features and deposits or built heritage elements on a site and suggests a structure for exploring them using the latest, most appropriate and cost-effective archaeological techniques.
Zone of Influence (Zol)	The area for the assessment of combined effects. Zols are variable depending on the environmental factor being discussed.
Zone of Theoretical Visibility (ZTV)	A map, usually digitally produced, showing areas of land within which, the Scheme is theoretically visible.

**Table 12-2 Abbreviations used throughout the Application**

Abbreviation	Description
AA	Appropriate Assessment
AADT	Annual Average Daily Traffic
AAP	Area Action Plan
ACM	Asbestos Containing Materials
ADMS	Atmospheric Dispersion Modelling System
AEP	Annual Exceedance Probability
AIES	Assessment of Implications on European Sites
ALARP	As Low as Reasonably Practicable
ALC	Agricultural Land Classification
AMES	Areas of Multiple Sensitivity
AMS	Archaeological Mitigation Strategy
AOD	Above Ordinance Datum
AONB	Area of Outstanding Natural Beauty
APIS	Air Pollution Information System
AQAP	Air Quality Action Plan
AQMA	Air Quality Management Area
AQS	Air Quality Strategy
ARN	Affected Road Network
ASNW	Ancient Semi Natural Woodland
ASR	Annual Status Report
ATC	Automated Traffic Counters
BAP	Biodiversity Action Plan
BAT	Best Available Technique
BCR	Benefit Cost Ratio
BCT	Bat Conservation Trust
BEIS	Business, Energy and Industrial Strategy
BGS	British Geological Survey
BGL	Below Ground Level
BHA	Building Height Attribute
BNL	Basic Noise Level
BOCC	Birds of Conservation Concern
BOD	Biochemical Oxygen Demand
BPM	Best Practicable Means
BS	British Standard
BSS	Basic Safety Standards
CA	Conservation Area
CAS	Chemical Abstract Service
CCC	Committee on Climate Change
CCDC	Cannock Chase District Council
CCR	Climate Change Risk
CDW	Construction Demolition Waste

Abbreviation	Description
CEMP	Construction Environmental Management Plan
CEnv	Chartered Environmentalist
CftS	Case for the Scheme and National Policy Statement Accordance Table
CH4	Methane
CIEEM	Chartered Institute of Ecology and Environmental Management
CL:AIRE	Contaminated Land: Applications in Real Environments
CNS	Central Nervous System
CO2	Carbon Dioxide
COBALT	Cost and Benefits to Accidents – Light Touch
CoCP	Code of Construction Practice
COMAH	Control of Major Accident Hazards
CoPA	Control of Pollution Act
COSHH	Control of Substances Hazardous to Health
CP	Core Principles
CRM	Community Relations Management system
CRTN	Calculation of Road Traffic Noise
CRoW Act	Countryside and Rights of Way Act
CSci	Chartered Scientist
CSM	Conceptual Site Model
DAS	Discretionary Advice Service
dB	Decibel
DCC	Derbyshire County Council
dDCO	Draft Development Consent Order
DCO	Development Consent Order
Defra	Department for Environment, Food and Rural Affairs
DfT	Department for Transport
DM	Do Minimum
DMRB	Design Manual for Roads and Bridges
DoWCoP	Definition of Waste: Development Industry Code of Practice
DQRA	Detailed Quantitative Risk Assessment
DS	Do Something
DTM	Digital Terrain Model
DWS	Drinking Water Standards
EA	Environment Agency
EclA	Ecological Impact Assessment
ECoW	Ecological Clerk of Works
EDNA	Economic Development Needs Assessment
EEA	European Economic Association
EFT	Emission Factor Toolkit
EIA	Environmental Impact Assessment
EM	Environmental Manager
EMP	Environmental Management Plan

Abbreviation	Description
EMS	Environmental Mitigation Schedule
END	Environmental Noise Directive
EnVis	Highways England Environmental Information System
EPS	European Protected Species
EPSML	European Protected Species Mitigation License
EQS	Environmental Quality Standards
ES	Environmental Statement
EU	European Union
EULV	EU Limit Values
EV	Electric vehicle
ExA	Examining Authority
EWC	European Waste Catalogue
FEH	Flood Estimation Handbook
FEP	Flood Estimation Points
FRA	Flood Risk Assessment
GAC	Generic Assessment Criteria
GCN	Great Crested Newt
GDP	Gross Domestic Product
GHG	Greenhouse Gas
GI	Ground Investigation
GIR	Ground Investigation Report
GIS	Geographical Information System
GLVIA	Guidelines for Landscape and Visual Impact Assessment
GPs	General Practitioners
GPP	Guidance for Pollution Prevention
GPU	Graphics Processing Unit
GQA	General Quality Assessment
GSV	Gas Screening Value
GVZ	Groundwater Vulnerability Zone
Ha	Hectare
HAPMS	Highways England Pavement Management System
HAWRAT	Highways Agency Water Risk Assessment Tool
HADDMS	Highways England's Drainage Data Management System
HAGIS	Highways Agency Geographical Information System
HFCs	Hydrofluorocarbons
HDV	Heavy Duty Vehicles
HEBAP	Highways England Biodiversity Action Plan
HECCC	Highways England Customer Contact Centre
HECZ	Historic Environment Character Zones
HEDP	Highways England Delivery Plan
HEES	Highways England Environment Strategy
HEL	Highways England License
HEMP	Handover Environmental Management Plan



Abbreviation	Description
HER	Historic Environment Record
HESBP	Highways England Strategic Business Plan
HEWRAT	Highways England Water Resource Assessment Tool
HESDS	Highways England Sustainable Development Strategy
HGV	Heavy Goods Vehicle
HIA	Heritage Impact Assessment
HLA	Historic Landscape Area
HLC	Historic Landscape Character
HMA	Housing Market Area
HMP	Heritage Management Plan
HMWB	Heavily Modified Water Body
HPBC	High Peak Borough Council
HPI	Habitat of Principal Importance
HRA	Habitats Regulations Assessment
HSWA	Health and Safety at Work etc. Act
HWRCs	Household Waste recycling Centres
IAN	Interim Advice Note
IAQM	Institute of Air Quality Management
ICCI	In-combination Climate Change Impact
ICM	Integrated Catchment Model
ICNIRP	International Commission on Non-ionizing Radiation Protection
ICOMOS	International Council on Monuments and Sites
ICRP	International Commission on Radiological Protection
ID	Identification
IDB	Internal Drainage Board
IDP	Infrastructure Delivery Plan
IEMA	Institute of Environmental Management and Assessment
IROPI	Imperative Reasons of Overriding Public Interest
IRZ	Impact Risk Zones
ITR	Indirect Taxation Revenue
ITS	Integrated Transport Strategy
IUCN	International Union for Conservation of Nature
JNCC	Joint Nature Conservation Committee
JT	Journey Time
Km	Kilometre
LA10	A-weighted, sound level exceeded for 10% of the measurement period
LA10,18h	A-weighted, arithmetic average of each 1-hour LA10 level over the 18 hour period 06:00-00:00
LA90	A-weighted, sound level exceeded for 90% of the measurement period
LAeq	A-weighted, equivalent sound level over the measurement period
LAFmax	A-weighted, maximum sound level over the measurement period, measured on 'fast' response

Abbreviation	Description
LAA	Local Aggregate Assessment
LAM	Local Area Model
LAQM	Local Air Quality Management
LAQM.TG	Local Air Quality Management Technical Guidance
LBAP	Local Biodiversity Action Plan
LCA	Landscape Character Area
LCLIP	Local Climate Impacts Profile
LCT	Landscape Character Type
LED	Light Emitting Diodes
LEL	Lower Explosion Limit
LGS	Local Geological Sites
LiDAR	Light Detection and Ranging
LLCA	Local Landscape Character Area
LLFA	Lead Local Flood Authority
LMVR	Local Model Validation Report
LNR	Local Nature Reserve
LOAEL	Lowest Observable Adverse Effect Level
LoNI	Letters of No Impediment
LPR	Local Plan Review
LT	Long Term
LTCA	Local Townscape Character Area
LTP	Local Transport Plan
LTT	Long Term Trends
LV	Limit Value
LVIA	Landscape and Visual Impact Assessment
LWS	Local Wildlife Site
Lw	Sound Power Level
M	Metres
MCA	Mineral Consultation Areas
MCC	Manual Classified Counts
MCV	Moisture Condition Value
MCHW	Manual of Contract Document for Highways Works
MCIEEM	Full Member of the Chartered Institute of Ecology and Environmental Management
MHCLG	Ministry of Housing, Communities and Local Government
MIOA	Member of the institute of Acoustics
MLP	Minerals Local Plan
MMP	Materials Management Plan
MOD	Ministry of Defence
MOE	Margin of Exposure
MOLA	Museum of London Archaeology
MSA	Mineral Safeguarding Area
NCA	National Character Areas

Abbreviation	Description
NCR	National Cycle Route
NDA	Non-Designated Asset (Heritage)
NE	Natural England
NERC	Natural Environment and Rural Communities
NEWP	Natural Environment White Paper
NGET	National Grid Electricity Transmission PLC
NHS	National Health Service
NGG	National Grid Gas PLC
NGR	National Grid Reference
NF3	Nitrogen Trifluoride
NHLE	National Heritage List for England
NIA	Noise Important Area
NIDP	National Infrastructure Delivery Plan
NIR	Noise Insulation Regulations
NIRS	National Incident Reporting System
NMU	Non-motorised Users
NNL	No-net Loss
NNR	National Nature Reserve
NOEL	No Observed Effect Level
NOx	Nitrogen Oxide
NO2	Nitrogen Dioxide
N2O	Nitrous Oxide
NPPF	National Planning Policy Framework
NPS	National Policy Statement
NPSE	Noise Policy Statement for England
NPSNN	National Policy Statement for National Networks
NPV	Net Present Value
NRMM	Non-Road Mobile Machinery
NSER	No Significant Effects Report
NSIP	Nationally Significant Infrastructure Project
NTS	Non-technical Summary
NVC	National Vegetation Classification
NVZ	Nitrate Vulnerable Zone
O-D	Origin Destination
OEL	Occupational Exposure Limit
OEMP	Outline Environmental Management Plan
OS	Ordnance Survey
OUV	Outstanding Universal Value
OWSI	Overarching Written Scheme of Investigation
PA 2008	Planning Act 2008
PAS [2080]	Publicly Available Specification [2080]
PCF	Project Control Framework

Abbreviation	Description
PCM	Pollution Climate Mapping
PCPA	Planning and Compulsory Purchase Act 2004
PEC	Pedestrians, Equestrians and Cyclists
PEIR	Preliminary Environmental Information Report
PFCs	Perfluorocarbons
PHE	Public Health England
PLWS	Potential Local Wildlife Sites
PM	Particulate Matter
PO	Probability of Occurring
PPE	Personal Protective Equipment
PPG	Planning Practice Guidance
PPG-N	Planning Practice Guidance on Noise
PPS	Planning Policy Statement
PPV	Peak Particle Velocity
PRA	Preferred Route Announcement
PROPWET	Proportion of time soils are WET
PRoW	Public Right of Way
PSS	Preliminary Sources Study
PVB	Present Value Benefits
PVC	Present Value Costs
RBD	River Basin Districts
RBMP	River Basin Management Plan
RBS	Road Based Study
RCP	Representative Concentration Pathways
RDB	Red Data Book
REAC	Register of Environmental Actions and Commitments
RHS	River Habitat Survey
RIGS	Regionally Important Geological Sites
RIS	Road Investment Strategy
RMSE	Root Mean Square Error
RPA	Root Protection Area
RR	Regional Cycle Route
RTM	Regional Transport Model
RTM	Remedial Target Methodology
RTV	Remedial Target Value
RV	Representative Viewpoint
SAAR	Standard Average Annual Rainfall
SAC	Special Area of Conservation
SAM	Scheduled Ancient Monument
SAR	Standardised Admissions Ratio
SBI	Site of Biological Importance
SCI	Sites of Community Importance
SES	Strategic Employment Site

Abbreviation	Description
SF6	Sulphur hexafluoride
SFAIRP	So Far as is Reasonably Practicable
SFRA	Strategic Flood Risk Assessment
SI	Statutory Instrument
SIR	Standardised Incidence Ratio
SLA	Special Landscape Area
SLM	Sound Level Meter
SMP	Sewerage Management Plan
SMR	Standardised Mortality Ratio
SNRHW	Selected Non-Reactive Hazardous Waste
SOAEL	Significant Observed Adverse Effect Level
SoCC	Statement of Community Consultation
SoCG	Statement of Common Ground
SoS	Secretary of State
SPA	Special Protection Area
SPD	Supplementary Planning Document
SPI	Species of Principal Importance
SPT	Standard Penetration Tests
SPZ	Source Protection Zones
SQI	Species Quality Index
SRN	Strategic Road Network
SSSI	Sites of Special Scientific Interest
SSWSI	Site Specific Written Scheme(s) of Investigation
ST	Short-term
SuDS	Sustainable Drainage Systems
SWMP	Site Waste Management Plan
TAG	Transport Analysis Guidance
TCPA	Town and Country Planning Act
tCO <sub>2</sub> e	Tonnes of carbon dioxide equivalent
TEE	Transport Economic Efficiency
TF	Timing and Frequency
TIN	Technical Information Note
TMBC	Tameside Metropolitan Borough Council
TMP	Traffic Management Plan
TPH	Total Petroleum Hydrocarbons
TPO	Tree Preservation Order
TRL	Transport Research Laboratory
TUBA	Transport Users Benefit Analysis
TWh	Tera watt hour
UEL	Upper Explosion Limit
UID	Unique Identity Number
UK	United Kingdom
UKCIP	UK Climate Impacts Programme

Abbreviation	Description
UKCP09	UK Climate Projections 2009
UKCP18	UK Climate Projections 2018
ULSD	Ultra-low Sulphur Diesel
UNECE	United Nations Economic Commission for Europe
UNESCO	United Nations Educational, Scientific and Cultural Organization
VLLW	Very Low Level Waste
VP	Viewpoints
VR	Visual Receptor
VSC	Very Special Circumstances
WAC	Waste Acceptance Criteria
WBCSD	World Business Council for Sustainable Development
WFD	Water Framework Directive
WG	Weather Generator
WHO	World Health Organisation
WHS	World Heritage Site
WPZ	Water Protection Zone
WRAP	Waste & Resources Action Programme
WRI	World Resources Institute
WSS	Water Soluble Sulphate
Zol	Zones of Influence
ZTV	Zone of Theoretical Visibility
ZVI	Zone of Visual Influence

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