

M3 Junction 9 Improvement

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6.1 Environmental Statement Chapter 17 Abbreviations and Glossary

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6.1 ENVIRONMENTAL STATEMENT - CHAPTER 17: ABBREVIATIONS AND GLOSSARY

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17. ABBREVIATIONS AND GLOSSARY

17.1 Introduction

17.1.1 This chapter is split into two parts. The first outlines the abbreviations used within the **Environmental Statement (Document Reference 6.1)** and the second outlines a glossary of terms used within the **Environmental Statement (Document Reference 6.1)**.

17.2 Abbreviations

17.2.1 **Table 17.1** presents the abbreviations used in the **Environmental Statement (Document Reference 6.1)**. The abbreviation is presented followed by the term that has been abbreviated.

Table 17.1: Abbreviations

Abbreviation	Definition
AADT	Annual Average Daily Traffic
AAWT	Annual Average Weekday Traffic
AEP	Annual Exceedance Probability
AIA	Arboricultural Impact Assessment
ALC	Agricultural Land Classification
ALR	All Lane Running
AMI	Advanced Matrix Indicator
AOD	Above Ordnance Datum
APIS	Air Pollution Information System
AQMA	Air Quality Management Area
AQO	Air Quality Objective
ARN	Affected Road Network
AVR	Accurate Visual Representation
BGS	British Geological Survey
BMV	Best and Most Versatile
BNG	Biodiversity Net Gain
BNL	Basic Noise Level
BoQ	Bill of Quantities
BPM	Best Practicable Means

Abbreviation	Definition
BSI	British Standards Institute
CA	Conservation Area
CAMS	Catchment Abstraction Management Strategy
CCA	Climate Change Act
CCC	Committee on Climate Change
CCG	Clinical Commissioning Group
CCRA	Climate Change Risk Assessment
CCTV	Closed-Circuit Television
CDE	Construction, Demolition, Excavation
CDW	Construction and Demolition Waste
CFMP	Catchment Flood Management Plan
Ch	Chainage
CIEEM	Chartered Institute of Ecology and Environmental Management
CIfA	Chartered Institute for Archaeologists
CO ₂	Carbon Dioxide
CO _{2e}	Carbon Dioxide Equivalent
COPD	Chronic Obstructive Pulmonary Disease
CPRE	Campaign to Protect Rural England
CRoW	Countryside and Rights of Way Act
CRTN	Calculation of Road Traffic Noise
dB	Decibel
DBA	Desk Based Assessment
DBEIS	Department for Business, Energy & Industrial Services
DCMS	Department of Digital, Culture, Media and Sport
DCO	Development Consent Order
DDA	Disability Discrimination Act 1995
Defra	Department for Environment Food and Rural Affairs
DfT	Department for Transport
DM	Do-Minimum
DMRB	Design Manual for Roads and Bridges

Abbreviation	Definition
DQRA	Detailed Quantitative Risk Assessment
DS	Do-Something
DSM	Digital Surface Model
DTM	Digital Terrain Model
DWGSZ	Drinking Water Groundwater Safeguard Zone
DWS	Drinking Water Standards
EA	Environment Agency
EBC	Eastleigh Borough Council
EclA	Ecological Impact Assessment
ECoW	Ecological Clerk of Works
EDB	Extended Detention Basins
EEA	European Economic Area
EFT	Emissions Factor Toolkit
EHO	Environmental Health Officer
EIA	Environmental Impact Assessment
ELC	European Landscape Convention
EMP	Environmental Management Plan
END	European Noise Directive (Directive 2002/49/EC)
EQS	Environmental Quality Standard
ES	Environmental Statement
ESR	Environmental Study Report
EU	European Union
EV	Electric Vehicle
EWE	Extreme Weather Events
fiEMP	First Iteration Environmental Management Plan
FRA	Flood Risk Assessment
FRAP	Flood Risk Assessment Permit
FWRA	Foundation Works Risk Assessment
GCA	Ground Conditions Assessment
GCR	Geological Conservation Review

Abbreviation	Definition
GHG	Greenhouse Gas
GHGI	UK Greenhouse Gas Inventory
GI	Ground Investigation
GIR	Ground Investigation Report
GWDTE	Ground Water Dependent Terrestrial Ecosystem
GWP	Global Warming Potential
ha	Hectare
HADDMS	Highways Agency Drainage Data Management System
HBIC	Hampshire Biodiversity Information Centre
HCCILCA	Hampshire County Council Integrated Landscape Character Assessment
HDV	Heavy Duty Vehicle (gross weight greater than 3.5 tonnes)
HER	Historic Environment Record
HEWRAT	Highways England Water Risk Assessment Tool
HgRA	Hydrogeological Risk Assessment
HGT	Hampshire Gardens Trust
HGV	Heavy Goods Vehicle
HHER	Hampshire Historic Environment Record
HLC	Historic Landscape Character
HPG	Historic Park and Garden
HPI	Habitats of Principal Importance
HRA	Habitats Regulations Assessment
HSE	Health and Safety Executive
HSI	Habitat Suitability Index
IAQM	Institute of Air Quality Management
ICE	Institution of Civil Engineers
IEMA	Institute of Environmental Management and Assessment
IMD	Indices of Multiple Deprivation
JNCC	Joint Nature Conservation Committee
JSNA	Joint Strategic Needs Assessment

Abbreviation	Definition
LAQM	Local Air Quality Management
LBs	Listed Buildings
LCA	Landscape Character Area
LCRM	Land Contamination Risk Management
LCT	Landscape Character Type
LDR	Long Distance Route
LLFA	Lead Local Flood Authority
LOAEL	Lowest Observed Adverse Effect Level
LoD	Limits of Deviation
l/s/ha	Litres per second per hectare
LSOA	Lower Super Output Area
LULUCF	Land use, land use change and forestry
LVIA	Landscape and Visual Impact Assessment
LWS	Local Wildlife Site
MIDAS	Motorway Incident Detection and Automatic Signaling
MMP	Materials Management Plan
mph	Miles per hour
MPs	Microplastics
MtCO ₂ e	Million tonnes carbon dioxide equivalent
MWP	Minerals and Waste Plan
NAEI	National Atmospheric Emissions Inventory
NAP	National Adaption Programme
NAQOs	National Air Quality Strategy Objectives
NCA	National Character Area
NCN	National Cycle Network
NERC	Natural Environment and Rural Communities
NHBC	National House Building Council
NHLE	National Heritage List for England
NHPMS	National Highways Pavement Management System
NIA	Noise Important Area

Abbreviation	Definition
NMA	Noise Management Area
NMP	National Mapping Programme
NNR	National Nature Reserve
NO ₂	Nitrogen Dioxide
NO _x	Oxides of Nitrogen
NOEL	No Observed Effect Level
NPPF	National Planning Policy Framework
NPSE	Noise Policy Statement for England
NPS NN	National Policy Statement for National Networks
NSIP	Nationally Significant Infrastructure Project
NUTS	Nomenclature of Territorial Units for Statistics
NVC	National Vegetation Classification
OHID	Office of Health Improvement and Disparities
OLEMP	Outline Landscape and Ecological Management Plan
OMH	Open Mosaic Habitat
ONS	Office for National Statistics
OS	Ordnance Survey
PAH	Polycyclic Aromatic Hydrocarbon
PANN	People and Nature Network
PAS	Publicly Available Standard
PAQAP	Project Air Quality Action Plan
PCD	Pollution Control Device
PCF	Project Control Framework
PCM	Pollution Climate Mapping
PEIR	Preliminary Environmental Information Report
PFRA	Preliminary Flood Risk Assessment
PfSH	Partnership for South Hampshire
PM _{2.5}	Particulate matter smaller than 2.5µm in diameter
PM ₁₀	Particulate matter smaller than 10µm in diameter
PPG	Planning Practice Guidance

Abbreviation	Definition
PPV	Peak Particle Velocity
PRA	Preliminary Risk Assessment
PRouA	Preferred Route Announcement
PRoW	Public Right of Way
PSSR	Preliminary Sources Study Report
RBMP	River Basin Management Plan
RCP	Representative Concentration Pathway
RDWE	Road Drainage and the Water Environment
RHPG	Register of Parks and Gardens of Special Historic Interest
RIS	Road Investment Strategy
RoFSW	Risk of Flooding from Surface Water
RPG	Registered Park and Garden
RVEI	Road Verge of Ecological Importance
SAC	Special Area of Conservation
SAR	Standardised Admission Ratios
SDILCA	South Downs Integrated Landscape Character Assessment
SDNP	South Downs National Park
SFRA	Strategic Flood Risk Assessment
SHMA	Strategic Housing Market Assessment
SHW	Specification for Highway Works
SI	Site Investigation
siEMP	Second Iteration Environmental Management Plan
SINC	Site of Importance for Nature Conservation
SIR	Standardised Incidence Ratio
SME	Small to Medium Sized Enterprise
SMP	Smart Motorway Programme (SMP referred to as 'ALR' in all documentation)
SMR	Standardised Mortality Ratios
SMs	Scheduled Monuments
SOAEL	Significant Observed Adverse Effect Level

Abbreviation	Definition
SoS	Secretary of State
SPA	Special Protection Area
SPI	Species of Principal Importance
SPZ	Source Protection Zone
SSSI	Site of Special Scientific Interest
SuDS	Sustainable Drainage System
TAG	Transport Analysis Guidance
TAR	Technical Appraisal Report
TCA	Townscape Character Area
TEEP	Technically, Environmentally or Economically Practicable
TIN	Technical Information Note
TMP	Traffic Management Plan
TPO	Tree Preservation Order
TRA	Traffic Reliability Area
TRL	Transport Research Laboratory
TSS	Total Suspended Solids
TVERC	Thames Valley Environmental Records Centre
UKCP18	UK Climate Projections 2018
UNFCCC	United Nations Framework Convention on Climate Change
VL	View Location
VMS	Variable Message Sign
WBCSD	World Business Council for Sustainable Development
WCA	Wildlife and Countryside Act 1981
WCC	Winchester City Council
WCH	Walking, Cycling and Horse-riding
WFD	Water Framework Directive
WHER	Winchester Historic Environment Record
WHO	World Health Organisation
WRI	World Resources Institute
WSI	Written Scheme of Investigation

Abbreviation	Definition
Zol	Zone of Influence
ZTV	Zone of Theoretical Visibility

17.3 Glossary

17.3.1 **Table 17.2** presents the glossary of terms used in the **Environmental Statement (Document Reference 6.1)**. The term is presented followed by the explanation / definition of the term.

Table 17.2: Glossary

Term	Definition
Adaptive Capacity	Ability or capacity of a system to modify or change to cope with changes in actual or expected climate stress. Also referred to as climate resilience.
Affected Road Network	All roads that trigger the traffic screening criteria and adjoining roads within 200m.
Agricultural Land Classification	A system used to grade agricultural land according to versatility, quality and suitability for growing crops as set out in the ALC for England and Wales issued by the Department for Environment, Food and Rural Affairs (Defra). The top three grades, Grades 1, 2 and Subgrade 3a are referred to as “Best and Most Versatile” (BMV) land.
Air Quality Dispersion modelling	The mathematical simulation of how air pollutants disperse in the ambient atmosphere. A dispersion model is used to estimate or predict the downwind concentration of air pollutants emitted from sources such as industrial facilities or road traffic.
Air Quality Management Area	Areas within a local authority's boundary that are identified as areas where Air Quality Objectives are not likely to be achieved.
Air Quality Objective	Defined levels of air quality and maximum pollution limits as specified in the Air Quality Strategy for England, Scotland, Wales and Northern Ireland, 2007.
Air Quality Threshold	Term to represent the relevant pollutant averaging period and concentration value described by the air quality strategy objectives or EU limit values.
Annual Average Daily Traffic	Total volume of vehicle traffic on a road flowing past a certain point over a year divided by 365 days.

Term	Definition
Annual Average Weekday Traffic	The average 24-hour traffic volume occurring on weekdays throughout a full year.
Anticipated Air Quality Study Area	The likely extent of the Study Area prior to confirmation of Affected Road Network in the opinion of the competent expert for air quality.
Base year traffic data	The outputs of the traffic model coinciding with the year the traffic data was collected.
Basic Noise Level	The basic noise level (BNL) is a measure of source noise as defined in Appendix A1 of DMRB LA 111.
Best Practicable Means	A term used by the Environment Agency's requiring operators to take all reasonably practicable measures in the design and management of their facilities to minimise charges and disposals of radio-active waste so as to achieve a high standard of environmental protection of the environment and the public.
Bifurcate	To divide into two or split.
Carbon Budget	GHG targets over defined periods of time.
Conceptual site model	A tool which sets out the information gained gathered through a site investigation is and is used to characterise the physical, biological, and chemical systems existing at a site.
Conservation Area	An area designated under Section 69 of the Planning (Listed Buildings and Conservation Areas) Act 1990 as being an area of "special architectural or historic interest, the character or appearance of which it is desirable to preserve or enhance".
Contaminated Land: Applications in Real Environments	An independent not-for-profit organisation established in 1999 to stimulate the regeneration of contaminated land in the UK. It aims to raise awareness of, and confidence in, practical and sustainable remediation technologies.
Critical level	An air quality standard or guideline for ambient concentrations of a pollutant which applies at ecological receptors.
Critical load	A quantitative estimate of exposure to one or more pollutants below which significant harmful effects on specified sensitive elements of the environment do not occur according to present knowledge. This is used to assess modelled nitrogen.

Term	Definition
Cumulative Effects Assessment	An assessment to identify the potential significant effects caused by the interactions of the effects on the environment from different aspects of the same project and from other projects.
Design Manual for Roads and Bridges	A manual, prepared by Highways England that sets out all current standards, advice notes and other published documents relating to the design, assessment and operation road schemes.
Designated habitats	Internationally, nationally and locally designated sites of ecological conservation importance on protected species and on habitats and other species identified as being of principal importance for the conservation of biodiversity.
Development Consent Order	The consent for a Nationally Significant Infrastructure Project required under the Planning Act 2008.
Diffusion Tube	A passive sampler used for collecting Nitrogen Dioxide (NO ₂) in the air.
Dispersion modelling	The mathematical simulation of how air pollutants disperse in the ambient atmosphere. A dispersion model is used to estimate or predict the downwind concentration of air pollutants emitted from sources such as industrial facilities or road traffic.
Do-Minimum	The scenario that represents the situation that would occur without the project in operation, which includes permitted developments.
Ecological status	From the Water Framework Directive, ecological status is classified in all Water Bodies and expressed in terms of five classes (high, good, moderate, poor or bad). These classes are established on the basis of specific criteria and boundaries defined against biological, physico-chemical and hydromorphological elements.
Embedded mitigation	Design measures which are integrated into a project for the purpose of minimising environmental effects.
Embodied carbon	Embodied carbon is the carbon footprint of a material. It considers how many greenhouse gases (GHGs) are released throughout the supply chain and is often measured from cradle to (factory) gate, or cradle to site (of use).

Term	Definition
Energy Average Sound Level (or equivalent continuous sound level)	The sound level of a steady sound having the same energy as a fluctuating sound over the same period. It is possible to consider this level as the ambient noise encompassing all noise at a given time. LAeq is considered the best general-purpose index for environmental noise.
Essential mitigation	Measures required to reduce and if possible offset likely significant adverse environmental effects, in support of the reported significance of effects in the environmental assessment.
Evening peak period (PM)	Period of time representing traffic characteristics in the evening, normally between 4pm and 7pm.
Ground Investigation	An intrusive investigation undertaken to collect information relating to the ground conditions, normally for geotechnical or land contamination purposes.
Habitats and Species of Principal Importance	Habitats and Species of Principal Importance as listed under the NERC (Natural Environment Research Council) Act 2006 are those habitats that require conservation action.
Hampshire Biodiversity Information Centre	Hampshire Biodiversity Information Centre (HBIC) provides an independent and impartial data service. Data maintained by HBIC and covers designated sites, habitats and species.
Heavy duty vehicle	Heavy duty vehicles include a vehicle with a gross weight of more than 3.5 tonnes and buses.
Heavy goods vehicle	A goods vehicle with a gross weight of more than 3.5 tonnes.
Heritage asset	A building, monument, site, place, area or landscape identified as having a degree of significance meriting consideration in planning decisions because of its heritage interest. Heritage assets include designated heritage assets and assets identified by the local planning authority (including local listing).
Historic Environment Record	The record of heritage assets which provides information to members of the public, statutory bodies and developers about the archaeological resource in an area.
Inter peak period (IP)	Period of time representing traffic characteristics during the day, normally between 10am and 4pm.

Term	Definition
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.
LA10	The level of noise exceeded for 10% of the measurement time. This has been shown to correlate well with human responses to road traffic noise.
LAeq T	The equivalent continuous (time-averaged) A-weighted sound level. This is commonly referred to as the average noise level. The suffix "T" represents the time period to which the noise level relates. For example, LAeq 1 hr is the LAeq level determined over a period of one hour.
Landscape and Visual Impact Assessment	An assessment to identify and assess the significance of change on the landscape including specific views and general visual amenity resulting from a proposed development.
Landscape Character Area	A discrete geographical area of a particular landscape type.
Landscape character assessment	The process of identifying and describing variation in the character of the landscape and using this information to assist in managing change in the landscape. It seeks to identify and explain the unique combination of elements and features that make landscapes distinctive.
Landscape Element	Landscape features found within the highway estate, which can encompass both hard landscape features and elements the soft estate.
Lead Local Flood Authorities	Unitary authorities or county councils who are responsible for developing, maintaining and applying a strategy for local flood risk management in their areas and for maintaining a register of flood risk assets.
Listed Building	A building or structure designated under the Planning (Listed Buildings and Conservation Areas) Act 1990 as being of 'special architectural or historic interest'.
Local Air Quality	Assessment of the impact of pollutant concentrations on sensitive receptors within 200m of a road.
Local Air Quality Management	A process that requires local authorities across the UK to review, assess and manage the air quality within their geographical areas.

Term	Definition
Local Biodiversity Action Plan Habitats or Species	Habitats or Species which are included in the Hampshire Biodiversity Action Plan.
Local Nature Reserves	Sites that are designated by the local authority under Section 21 of the National Parks and Access to the Countryside Act 1949 for nature conservation which have wildlife or geological features that are of special interest locally.
Long Walk	Sometimes referred to as Fulling Mill Lane. For this application Long Walk has been used to identify the highway between Easton Lane and M3 underpass.
Lowest Observable Adverse Effect Level (noise)	This is the level above which adverse effects on health and quality of life can be detected.
Morning period (AM)	Period of time representing traffic characteristics in the morning, normally between 7am and 10am.
National Cycle Network	A series of traffic-free paths and quiet, on-road cycling and walking routes that connect towns and cities. These routes are promoted for both recreational and active travel purposes.
National Nature Reserve	Sites that are dedicated by the statutory country conservation agencies, under the National Parks and Access to the Countryside Act 1949 and the Wildlife and Countryside Act 1981, for nature conservation and which have wildlife or geological features that are of special interest nationally.
National Trails	Long distance footpaths and bridleways in England and Wales. In Scotland the equivalent trails are called long distance routes.
National Vegetation Classification	A system of classifying natural habitat types in Great Britain according to the vegetation they contain.
No Observed Effect Level	This is the level below which no effect can be detected and below which there is no detectable effect on health and quality of life due to noise
Open space	Land where the public have access either by legal right or by informal agreement.
Overnight period (OP)	Period of time representing traffic characteristics overnight, normally between 7pm and 7am.

Term	Definition
Particulate matter	Airborne particulate matter is made up of a collection of solid and/or liquid materials of various sizes that range from a few nanometers in diameter (about the size of a virus) to around 100 micrometers (about the thickness of a human hair).
Pollutant concentrations	Concentrations of pollutants normally reported as micrograms per cubic metre of air ($\mu\text{g}/\text{m}^3$).
Pollution climatic mapping model	The Government's national air quality modelling which is used to assess and report on compliance with the Air Quality Objective / limit values.
Principal Aquifer	Layers of rock or drift deposits that have high intergranular and/or fracture permeability, meaning they usually provide a high level of water storage. These layers of rock or drift deposits may support water supply and/or river base flow on a strategic scale.
Project air quality action plan	The section of the air quality assessment where the proposed viable mitigation measures are set out and assessed.
Projected base year	Represents the opening year of the project assessed with the vehicle emission rates for the base year to inform the assessment of future year projections of NO_x and NO_2 .
Public Right of Way	Highways such as footpaths, cycle ways and national trails that allow the public a legal right of passage.
Ramsar Site	Wetlands of international importance designated under the Ramsar Convention 1971.
Regionally Important Geological Sites	Locally designated sites of importance for geodiversity.
Residual effect	Residual effects are those effects that remain after all mitigation (embedded and essential) have been factored into the assessment of effects.
River Basin District	The area of land and sea, made up of one or more adjacent river basins together with their associated groundwaters and coastal waters.

Term	Definition
Road Verge of Ecological Importance	A road verge that supports either a notable species and/or a species rich habitat. Selection of RVEI sites is undertaken by the Hampshire Biodiversity Information Centre. The County Council is responsible for the management of the verges on all roads in the county, except motorways, major trunk roads, and urban areas.
Scheduled Monument	A heritage asset designated and protected under the Ancient Monuments and Archaeological Areas Act 1979.
Setting	The surroundings in which a place is experienced, whilst embracing an understanding of perceptible evidence of the past in the present landscape.
Significant Observed Adverse Effect Level (noise)	This is the level above which significant adverse effects on health and quality of life occur.
Site of Importance for Nature Conservation	Important wildlife sites which are designated through local planning policy. They are generally administered by local authorities in partnership with conservation organisations. HBIC manages the Hampshire SINC system on behalf of the local planning authorities and follows national guidance on identification, selection and management of local sites.
Site of Special Scientific Interest	Site designated as being of special interest for its flora, fauna or geological or physiographical features and protected under the Wildlife and Countryside Act 1981.
Smart Motorway	Referred to as All Lane Running (ALR) in all documentation.
Special Area of Conservation	An area which has been identified as being important for a range of vulnerable habitats, plant and animal species within the EU and is designated under the Habitats Directive.
Special Protection Area	A site designated under the Birds Directive due to its international importance for the breeding, feeding, wintering, or the migration of, rare and vulnerable species of birds.
Speed band	A range of categories for which outputs from the traffic model are grouped into to describe their emissions.

Term	Definition
Source Protection Zone (groundwater)	Zones show the risk of contamination from any activities that might cause pollution in the area. The closer the activity, the greater the risk
Study area	The spatial area within which environmental effects are assessed (i.e. extending a distance from the development footprint in which significant environmental effects are anticipated to occur). This area varies between different environmental topic areas.
Sustainable Drainage Systems	A collective approach to manage surface water as close to source as possible and mimic natural drainage by taking into account water quantity (flooding), water quality (pollution), biodiversity (wildlife and plants) and amenity.
Sustrans	Registered British charity whose aim is to promote sustainable transport, i.e., walking, cycling and public transport.
Temporary Traffic Management	Measures, including directive barriers and signs, taken to ensure that road users can travel safely through or around the work site.
Traffic reliability area	The traffic scoping criteria is only be applied to the area covered by the traffic model, that the competent expert for traffic has identified as reliable for inclusion in an environmental assessment and is referred to as the traffic reliability area.
Water Framework Directive	Directive 2000/60/EC of the European Parliament and of the Council of 23 October 2000 establishing a framework for community action in the field of water policy.
Zone of Influence	The area(s) over which environmental features may be affected by the biophysical changes caused by the Proposed Scheme.
Zone of Theoretical Visibility	A map, usually digitally produced, showing areas of land within which, a development is theoretically visible.