



ABBREVIATIONS



Abbreviation	Term
AADT	Annual Average Daily Traffic
Ag	Agricultural
AWI	Ancient Woodland Inventory
BAP	Biodiversity Action Plan
BGS	British Geological Survey
BT	British Telecom
CAR	Water Environment (Controlled Activities) (Scotland) Regulations 2005
CLEA	Contaminated Land Exposure Assessment
CO	Carbon Monoxide
CROW	Catalogue of Rights of Way
CTC	Cycling Touring Club
Defra	Department for Environment, Food and Rural Affairs
DMRB	Design Manual for Roads and Bridges
EIA	Environmental Impact Assessment
EPS	European Protected Species
EQS	Environmental Quality Standards
EU	European Union
ES	Environmental Statement
FEPA	Food and Environmental Protection Act
GIS	Geographical Information System
GLVIA	Guidelines for Landscape and Visual Impact Assessment
Ha	Hectare 10,000m ²
HAWRAT	Highways Agency Water Risk Assessment Tool
HPPE	High Pressure Polyethylene
HGV	Heavy Goods Vehicle
HS	Historic Scotland
IDM	Investment Decision Makers
JSP	Joint Structure Plan
km	kilometres
KPH	Kilometres Per Hour
LAQM	Local Air Quality Management
LBAP	Local Biodiversity Action Plan
LDF	Local Development Frameworks
LNCS	Local Nature Conservation Sites
LNR	Local Nature Reserves
LTM	Long-Term Monitoring
LTS	Local Transport Strategy
m	metres
MHWS	Mean High Water Spring
MLURI	Macaulay Land Use Research Institute
NAC	North Ayrshire Council
NAEI	National Atmospheric Emissions Inventory
NAQS	The National Air Quality Strategy
NISR	Noise Insulation (Scotland) Regulations
NETCEN	National Environmental Technology Centre
NO _x	Nitric Oxide
NO ₂	Nitrogen Dioxide
NMRS	National Monument Record of Scotland
NMU	Non-Motorised User
NNR	National Nature Reserve
NPF2	National Planning Framework for Scotland 2
NPPG	National Planning Policy Guideline



NRTF	National Road Traffic Forecast
NSA	National Scenic Area
NTS	National Transport Strategy
O ₃	Ozone
OS	Ordnance Survey
PAN	Planning Advice Note
PAS	Port Approach Study
PM	Particulate Matter
PPG	Pollution Prevention Guidance
PPS	Planning Policy Statements
PWS	Provisional Wildlife Site
RAMSAR	Wetland of International Importance
RBI	Raised Bog Inventory
RAP	Route Action Plan
RH	Royal Haskoning
RIGS	Regionally Important Geological Sites
ROD	Record of Determination
RPG	Regional Planning Guidance
RSPB	The Royal Society for the Protection of Birds
RSS	Regional Spatial Strategies
RTA	Road Traffic Accident
SAC	Special Area of Conservation
SAyC	South Ayrshire Council
SAM	Scheduled Ancient Monument
SDD	Scottish Development Department
SEPA	Scottish Environment Protection Agency
SGRIPD	The Scottish Government Rural Payments and Inspections Directorate
SHEP	Scottish Historic Environmental Policy
SINC	Site of Interest for Nature Conservation
SLA	Special (local) Landscape Area
SLCA	Sensitive Landscape Character Area
SMC	Scheduled Monument Consent
SNH	Scottish Natural Heritage
SOC	Scottish Ornithologists' Club
SPA	Special Protection Area
SPECS	Speed Check Services
SP	Scottish Power
SPP	Scottish Planning Policy
SPZ	Source Protection Zone
SSSI	Site of Special Scientific Interest
STAG	Scottish Transport Appraisal Guidance
SUDS	Sustainable Urban Drainage System
SW	Scottish Water
SWT	Scottish Wildlife Trust
VID	Visual Impact Drawing
VOC	Volatile Organic Compound
WFD	Water Framework Directive
WCA	Wildlife and Countryside Act
WoSAS	West of Scotland Archaeology Service



GLOSSARY



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Abbreviation	Term	Definition
AADT	Annual Average Daily Traffic	The forecast total traffic divided by 24
AAWF	Annual Average Weekly (Traffic) Flow	AADT averaged over seven days
BGS	British Geological Survey	The world's longest established national geological survey and the United Kingdom's premier centre for earth science information and expertise.
CAR	The Water Environment (Controlled Activities) (Scotland) Regulations 2005	These regulations set controls over construction activities in order to protect and improve Scotland's water environment
CO ₂	Carbon dioxide	A colourless gas (CO ₂), which is the product of combustion of fossil fuels, and is a greenhouse gas. Around 20% of these emissions in the UK result from road traffic.
CO	Carbon monoxide	A colourless gas (CO) which is the product of the incomplete combustion of carbon containing substances. Relatively unreactive although it is a greenhouse gas.
CRTN	Calculation of Road Traffic Noise	This is a step by step method for predicting noise levels at a distance from a highway, taking into account factors such as traffic flow, speed, composition, intervening ground cover and screening. Section 2 provides additional advice on procedures which may need to be used to calculate noise in special situations such as junctions or low traffic flows.
cSAC	Candidate Special Area of Conservation	Special Areas of Conservation are areas designated under the European Community Council Directive on the Conservation of Natural Habitats and Wild Fauna and Flora commonly known as the Habitats and Species Directive. According to the Habitats and Species Directive (1992) SACs are to be afforded absolute protection subject to 'imperative reasons of overriding public interest, including those of a social or economic nature'.
dB	Decibel	The term used to express a level of sound.



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dB(A)	The A-weighting curve is one of a family of curves defined in IEC179 and various other standards for use in noise meters.	This term is commonly used for the measurement of environmental (including road traffic noise) and industrial noise, when assessing potential hearing damage and other noise health effects at moderate to high intensity levels.
dBL _{A10(18hr)}	The index adopted by the Government to assess traffic noise.	The arithmetic mean of the noise levels exceeded for 10% of the time in each of the 18 hour periods between 6am and midnight.
dBL _{A90(18hr)}	A scale used to describe background noise levels.	The arithmetic mean of the noise levels exceeded for 90% of the time in each of the 18hour periods between 6am and midnight.
DMRB	Design Manual for Roads & Bridges	A comprehensive manual accommodating all current standards, advice notes and other published documents that relate to the design, assessment and operation of trunk roads.
EIA	Environmental Impact Assessment	The process where the environmental effects of a project are evaluated and mitigation measures are identified.
ES	Environmental Statement	A published document provided by the developer to the Competent Authority containing environmental information required under Article 5 of the Directive 85/337/EEC as amended by Directive 97/11/EC.
Ha	Hectare	10,000m ²
HAWRAT	Highways Agency Water Risk Assessment Tool	A design tool developed by the Highways Agency to develop statistical models to predict the runoff loads and concentrations.
HGV	Heavy goods vehicles	A class of vehicle comprising commercial freight and public/private bus services.
HC	Hydrocarbons	Chemical compounds that contain only hydrogen and carbon. Approximately 30% of the UK hydrocarbon emissions result from road transport.
Km	Kilometre	A unit used to measure distance which is equivalent to 1000 meters.
km/hr	Kilometre per hour	A measure of distance travelled over a certain time. In the context of this report it is a measure of vehicle speed.
L ₁₀	Level of noise in dB(A) exceeded for 10% of a given period of time	The noise level exceeded for 10% of the time of the measurement duration. This is often used to give an indication of the upper limit of



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		fluctuating noise, such as that from road traffic.
L_{Aeq}	The equivalent continuous sound level	A weighted equivalent continuous sound level that has the same energy content as the varying sound level.
m	Metres	A unit to measure distance
MLURI	Macaulay Land Use Research Institute	The Institute in its current form was founded in April 1987 by the merger of the Macaulay Institute for Soil Research and the Hill Farming Research Organisation. It was established to carry out research in support of the agricultural industry, taking account of the interaction between the industry and other land users, and set in the context of the environmental objectives of the UK Government and the European Union.
NETCEN	National Environmental Technology Centre	Part of AEA Energy & Environment which is an internationally recognised centre of excellence in managing and improving air quality. Our team of experts provides a service that embraces the depth and breadth of air-quality issues (from odour to toxic air pollutants and aerosols)
NISR	The Noise Insulation (Scotland) Regulations 1975	At present where noise from a new or altered road exceeds a certain trigger level, and meets other qualifying criteria, the Land Compensation (Scotland) Act 1973 provide for insulation work to be carried out or a grant to be made in respect of that insulation work.
NO	Nitric oxide	A colourless gas which rapidly converts to NO_2
NO_2	Nitrogen dioxide	A pollutant largely formed through atmospheric chemical reactions between NO and O_3 .
NO_x	Oxides of nitrogen	Term used to describe a combination of nitric oxide and nitrogen dioxide. Approximately 50% of the UK emissions of NO_x are produced by road transport.
NMRS	National Monuments Records Scotland	The Royal Commission on the Ancient and Historical Monuments of Scotland (RCAHMS) is funded by the Scottish Executive and is based in Edinburgh. Its main objectives are



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		'to record and interpret the sites, monuments and buildings of Scotland's past, promoting a greater appreciation of their value through the maintenance of the National Monuments Record of Scotland (NMRS)
NPPG	National Planning Policy Guidance	The Government produces national planning policy guidance; this provides a policy framework that is implemented in Development Plans.
NVC	National Vegetation Classification	A classification system used throughout the UK for defining vegetation communities on the basis of the plant species present and their relative abundance.
PAN	Planning Advice Note	Planning Advice Notes offer detailed advice and information on implementing policies in the Local Plan and outline national and regional policy.
PPG	Pollution Prevention Guideline	Each PPG is targeted at a particular industrial sector or activity and aims to provide advice on statutory responsibilities and good environmental practice. As well as being used by Agency staff, the PPG's also function as invaluable sources of advice for industry and members of the public.
PWS	Provisional Wildlife Site	Wildlife Sites are areas of importance to wildlife which have been surveyed and then assessed by a team of local experts. Provisional Wildlife Sites are sites which have not yet been formally assessed.
RCAHMS	Royal Commission on the Ancient and Historical Monuments of Scotland	Responsible for recording, interpreting and collecting information about the built environment. This information, which relates to buildings, sites, and ancient monuments of archaeological, architectural and historical interest (including maritime sites and underwater constructions), is then made freely available to the public.
RIGS	Regionally Important Geological and Geomorphological Sites	The most important places for geology and geomorphology outside statutorily protected land such as Sites of Special Scientific Interest (SSSI).
RSPB	Royal Society for the Protection of Birds	The RSPB is a UK charity working to secure a healthy environment for



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		birds and other wildlife
SAC	Special Area of Conservation	Strictly protected sites designated under the EC Habitats Directive. Article 3 of the Habitats Directive requires the establishment of a European network of important high-quality conservation sites that will make a significant contribution to conserving the 189 habitat types and 788 species identified in Annexes I and II of the Directive (as amended).
SAM	Scheduled Ancient Monument	Defined in the Ancient Monuments and Archaeological Areas Act 1979 and the National Heritage Act 1983 as a protected archaeological site or historic building of national importance.
SEPA	Scottish Environment Protection Agency	Scotland's environmental regulator and adviser, responsible to the Scottish Parliament through Ministers.
SINC	Site of Interest for Nature Conservation	Non-statutory sites of local or district importance for nature conservation as identified by local councils and wildlife trusts
SNH	Scottish Natural Heritage	SNH's functions include advising Ministers, the public sector and the public on matters that affect the natural heritage
SOC	Scottish Ornithologists Club	Plays a central role in Scottish birdwatching, bringing together amateur birdwatchers, keen birders and research ornithologists with the aims of documenting and studying Scotland's varied birdlife.
SPA	Special Protection Area	Strictly protected sites classified in accordance with Article 4 of the EC Directive on the conservation of wild birds (79/409/EEC), also known as the Birds Directive, which came into force in April 1979. They are classified for rare and vulnerable birds, listed in Annex I to the Birds Directive, and for regularly occurring migratory species.
SSSI	Site of Special Scientific Interest	The best examples of our natural heritage of wildlife habitats, geological features and landforms. A SSSI is an area that has been notified as being of special interest under the Wildlife and Countryside Act 1981 .
STAG	Scottish transport Appraisal Guidance	A draft consultation document for guidance on the appraisal of newly



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		conceived transport projects
SUDS	Sustainable Urban Drainage System	A series of management practices and control structures designed to drain surface water more sustainably than conventional techniques. Drainage flows are attenuated and often there is treatment such as filtration of the drainage waters
SWT	Scottish Wildlife Trust	A leading voluntary conservation organisation, working to protect Scotland's natural environment and wildlife.
WCA	Wildlife and Countryside Act 1981	The principle mechanism for the legislative protection of wildlife in Great Britain. It does not extend to Northern Ireland, the Channel Islands or the Isle of Man. This legislation is the means by which the Convention on the Conservation of European Wildlife and Natural Habitats (the 'Bern Convention') and the European Union Directives on the Conservation of Wild Birds (79/409/EEC) and Natural Habitats and Wild Fauna and Flora (92/43/EEC) are implemented in Great Britain.
WFD	Water Framework Directive (2000/60/EC)	The most substantial piece of EC water legislation to date. It requires all inland and coastal waters to reach "good status" by 2015. It will do this by establishing a river basin district structure within which demanding environmental objectives will be set, including ecological targets for surface waters.