

## A47 Wansford to Sutton Dualling

Scheme Number: TR010039

# 6.3 Environmental Statement Appendices Appendix 11.1 - Glossary of terms

APFP Regulation 5(2)(a)

Planning Act 2008

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

July 2021



#### Infrastructure Planning

Planning Act 2008

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

#### A47 Wansford to Sutton Development Consent Order 202[x]

# **ENVIRONMENTAL STATEMENT APPENDICES Appendix 11.1 – Glossary of terms**

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### **Appendix 11.1**

#### **Glossary of terms**

Table 11-1: Terms and definitions from DMRB LA111

Ambient noise  Arweighting  In no free  No so  No so  Raseline scenario  Basic noise level  Calculation of road traffic noise  Construction noise assessment  Are Construction vibration assessment  Are acc  The construction vibration assessment  Are acc  The construction vibration assessment  Are acc	mbient noise is the total sound in a given situation at a given time sually composed of sound from many sources, near and far.  nnual Average Weekday Traffic.  addition to its non-linear amplitude response, the human ear has a con-linear frequency response; it is less sensitive at low and high equencies and most sensitive in the mid-range frequencies.
AAWT  A-weighting  In no free  No so  No so  No so  Aaseline scenario  Basic noise level  Calculation of road traffic noise  Construction noise assessment  Are construction vibration assessment  Are acc  The construction vibration assessment  Are acc  The construction vibration assessment	nnual Average Weekday Traffic.  addition to its non-linear amplitude response, the human ear has a con-linear frequency response; it is less sensitive at low and high equencies and most sensitive in the mid-range frequencies.
A-weighting  In no free  No so  No so  Raseline scenario  Basic noise level  Calculation of road traffic noise  Construction noise assessment  Are construction vibration assessment  Are acceptable and are acceptable and acceptable	a addition to its non-linear amplitude response, the human ear has a con-linear frequency response; it is less sensitive at low and high equencies and most sensitive in the mid-range frequencies.
Raseline scenario  Basic noise level  Calculation of road traffic noise  Construction noise assessment  Are Construction vibration assessment  Are Construction vibration assessment  Are Construction vibration assessment	on-linear frequency response, it is less sensitive at low and high equencies and most sensitive in the mid-range frequencies.
Saseline scenario  A characteristic noise level  Calculation of road traffic noise  Construction noise assessment  Are construction vibration assessment  Are construction vibration assessment  Are construction vibration assessment  Are construction vibration assessment	OTE 1. The A weighting is applied to managinal count pressure levels
Baseline scenario  A the Basic noise level  Calculation of road traffic noise  Construction noise assessment  Construction vibration assessment  Are acceptable.	OTE 1: The A-weighting is applied to measured sound pressure levels that these levels correspond more closely to the subjective response.
Basic noise level  Calculation of road traffic noise  Construction noise assessment  Construction vibration assessment  Ar ac  Th	OTE 2: A-weighted noise levels are often expressed in dB(A).
Calculation of road traffic noise  The noise Construction noise assessment  Construction vibration assessment  Are accommodified to the noise assessment of the noise of the	description of the state of the environment without implementation of e scheme.
Construction noise assessment  Construction vibration assessment  Ar  ac  Th	he basic noise level (BNL) is a measure of source noise as defined in ppendix A.
Construction vibration assessment Ar ac	he technical memorandum that describes the procedures for calculating bise from road traffic (CRTN).
ac Th	n assessment which compares predicted noise levels from construction isks to ambient noise levels at nearby noise sensitive receptors.
	n assessment of magnitude of predicted vibration from construction ctivities.
	he unit of measurement used for sound pressure levels and noise levels uoted in decibels (dB).
Oecihel of	OTE 1: The decibel scale is logarithmic rather than linear; the threshold fearing is zero decibels while, at the other extreme, the threshold of ain is about 130 decibels.
the	OTE 2: These limits are seldom experienced and typical levels lie within the range of 30dB(A) (a quiet night time level in a bedroom) to 90dB(A) at the kerbside of a busy road).
	set of approved routes to follow in case of closure of motorway / major -roads.
Do-minimum Sc	cenario without the project.
Do-something Sc	cenario with the project.
Environmental Noise Directive quiet area A	location formally designated as a 2002/49/EC (END) quiet area.
	ound level that is determined 1 metre (m) in front of a window or door in facade.
	he sound level, which is measured or calculated, in the open, without ny reflections from nearby surfaces except the ground.
Future year Th	



Term	Definition
Insertion loss	A measure of the effectiveness of noise control devices such as silencers and enclosures.
	NOTE: The insertion loss of a device is the difference, in dB, between the noise level with and without the device present.
LA10	The A-weighted sound level, in dB, that is exceeded 10% of the measurement period.
	NOTE: This is the standard index used within the UK to describe traffic noise.
LA10,18hr	The noise level, in dB, that is exceeded 10% of the time between 0600 and 2400.
L <sub>A90</sub>	The noise level, in dB, that is exceeded 90% of the time of the measurement period. It is commonly referred to as the background noise level.
LAeq	The equivalent continuous sound level ( $L_{Aeq}$ ) is the level of a notional steady sound, which at a given position and over a defined period of time, would have the same A-weighted acoustic energy as the fluctuating noise.
LAmax	The maximum A-weighted level measured during a given time period.
L <sub>day</sub>	Equivalent continuous sound pressure level where the time interval is the 12 hour period between 07:00 and 19:00.
Levening	Equivalent continuous sound pressure level where the time interval the 4 hour period between 17:00 and 23:00.
Lnight	A façade noise index derived from the L <sub>A10,18hr</sub> using the TRL conversion method PR/SE/451/02.
Lnight,outside	For the purpose of night-time noise assessment, the L <sub>night,outside</sub> is the equivalent continuous sound level L <sub>night</sub> for the period 23:00 to 07:00 hours assessed outside a dwelling and is free-field.
Long-term	Noise change based on the +15 year assessment (for example Dominimum opening year scenario (DMOY) against Do-minimum future year scenario (DMFY) and DMOY against Do-something future year scenario (DSFY).
Lowest observed adverse effect level (LOAEL)	Level above which adverse effects on health and quality of life can be detected.
NIA	Noise Important Area.
Noise	Unwanted sound.
Noise mapping	The production of computer software generated maps showing how the predicted levels of outdoor noise vary with location.
Noise modelling	Software to predict noise levels.
	NOTE: This can be undertaken either by specialist software to provide a 3D representation of the project and nearby noise sensitive receptors or a simple spreadsheet.
Noise monitoring	Measurement of noise levels.
Noise sensitive receptor	Receptors which are potentially sensitive to noise.
	NOTE: Examples include dwellings, hospitals, healthcare facilities, education facilities, community facilities, END quiet areas or potential



Term	Definition
	END quiet areas, international and national or statutorily designated sites, public rights of way and cultural heritage assets.
Non-project noise change	Noise change based on the DMOY against DMFY scenario, with no project implementation.
Point source attenuation	A source of noise/sound that radiates from a single point, decreasing by 6dB every time the distance between the source and receiver is doubled.
Sensitive buildings	Dwellings, including those that are listed, hospitals, healthcare facilities, education facilities or other buildings where noise or vibration can cause disturbance to people using the buildings.
Opening year	The first year of operation.
Operational noise assessment	An assessment to determine the operational noise impacts and effects of a road project.
Potential END quiet area	A location with potential to be formally designated as an END quiet area, but not officially designated as such.
Reflective noise barrier	A noise barrier that reflects noise.
Short-term	Noise change based on parallel assessment year (for example DMOY against Do-something opening year scenario (DSOY)).
Significant observed adverse effect level (SOAEL)	The level above which significant adverse effects on health and quality of life occur.
Vibration	A to-and-fro motion which oscillates about a fixed equilibrium position.
Vibration sensitive receptor	Receptors which are potentially sensitive to vibration.
	NOTE: Examples include dwellings, hospitals, healthcare facilities, education facilities, community facilities, buildings containing vibration sensitive equipment and cultural heritage assets.