

Chapter 26

References and terminology

26 References and terminology

26.1 References

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26.2 Glossary of terms and abbreviations

26.2.1 Terms

Term	Definition
Aboriginal object	Any deposit, object or material evidence (not being a handcraft made for sale), including Aboriginal remains, relating to the Aboriginal habitation of NSW.
Aboriginal place	Any place declared to be an Aboriginal place under section 94 of the <i>National Parks and Wildlife Act 1974 (NSW)</i> .
AM peak hour	Unless otherwise stated, this refers to trips travelling on the network during the average one hour peak period between 6am–9am on a weekday.
acute exposure	Contact with a substance that occurs once or for only a short time (up to 14 days).
background concentration (air quality)	Describes all contributing sources of a pollutant concentration other than road traffic. It includes, for example, contributions from natural sources, industry and domestic activity.
construction footprint	The total extent of land required for the construction of the proposal, including ancillary facilities and services and land temporarily required for construction (incorporating construction elements such as compounds, access roads and worksites).
cut-and-cover	A method of tunnel construction whereby the structure is built in an open excavation and subsequently covered.
drawdown	Reduction in the level of the water table caused by changes in the local environment.
drained structure	Drained structures are those in which groundwater can enter the structure and the groundwater levels adjacent to the structure may become lower as a result.
earthworks	Operations involved in loosening, excavating, placing, shaping and compacting soil or rock.
embankment	An earthen structure where the road (or other infrastructure) subgrade level is about the natural surface.
erosion	A natural process where wind or water detaches a soil particle and provides energy to move the particle.
flood prone land	Land susceptible to flooding by the probable maximum flood (also referred to as flood liable land).
flood storage area	Those parts of the floodplain that are important for the temporary storage of floodwaters during the passage of a flood. The extent and behaviour of flood storage areas may change with flood severity, and loss of flood storage can increase the severity of flood impacts by reducing natural flood attenuation.
floodplain	Area of land which is inundated by floods up to and including the probable maximum flood event (i.e. flood prone land).
greenhouse gas	Greenhouse gases are those gaseous constituents of the atmosphere that absorb and emit infra-red radiation at specific wavelengths within the spectrum of terrestrial radiation emitted by the Earth's surface, the atmosphere itself, and by clouds. This radiation generates heat which warms the atmosphere, and therefore greenhouse gases are a key contributor to the changing climate.

Term	Definition
groundwater dependent ecosystem	Refers to communities of plants, animals and other organisms whose extent and life process are dependent on groundwater, such as wetlands and vegetation on coastal sand dunes.
in-cutting	Section of the proposed alignment below the existing ground level.
mid-block	The section of road between two intersections.
operational footprint	The land permanently required for operation of the proposal.
peak discharge	The maximum discharge occurring during a flood event.
peak flood level	The maximum water level occurring during a flood event.
placemaking	Describes an approach to the planning, design and management of public spaces.
PM peak hour	Unless otherwise stated, this refers to trips travelling on the network during the average one hour peak period between 3pm–6pm on a weekday.
Proponent	For the proposal, the proponent is Sydney Metro.
the proposal	Major civil construction work between The Bays and Sydney CBD as part of the broader Sydney Metro West project.
runoff	The amount of rainfall that ends up as streamflow, also known as rainfall excess.
sensitive receiver	Includes residences, educational institutions (including preschools, schools, universities, TAFE colleges), health care facilities (including nursing homes, hospitals), religious facilities (including churches), child care centres, passive recreation areas (including outdoor grounds used for teaching), active recreation areas (including parks and sports grounds), commercial premises (including film and television studios, research facilities, entertainment spaces, temporary accommodation such as caravan parks and camping grounds, restaurants, office premises, retail spaces and industrial premises).
settlement	Refers to how ground can move due to the construction of new infrastructure.
stockpile	Temporary stored materials such as soil, sand, gravel, spoil/waste.
study area	Based on the proposal design to be assessed in the Environmental Impact Statement, each technical discipline will define a study area based on the proposal footprint and a suitable buffer area.
total concentration (air quality)	The sum of the background, surface road and ventilation outlet concentrations. It may relate to conditions with or without the proposal under assessment.
trackout	Dust emissions associated with the loading and movement of materials.
tunnel alignment	The horizontal and vertical position beneath the ground along which the tunnel progresses.
undrained structure	A structure in which groundwater is stopped from entering a structure or excavation either by cut-off or waterproofing thereby limiting groundwater drawdown in the aquifer surrounding the structure.
waste hierarchy	Approach of prioritising waste avoidance and resource recovery (including reuse, reprocessing, recycling and energy recover) before consideration of waste disposal.

26.2.2 Abbreviations

Abbreviation	Meaning
µm	Micrometre
AAPT	A fixed-line telecommunications company owned by TPG Telecom
ABS	Australian Bureau of Statistics
ACHAR	Aboriginal Cultural Heritage Assessment Report
AEI	area of environmental interest
AEP	annual exceedance probability

Abbreviation	Meaning
AHD	Australian height datum
AHIMS	Aboriginal Heritage Information Management System
AIA	Australian Institute of Architects
ANZAC	Australian and New Zealand Army Corps
ANZECC	Australian and New Zealand Environment Conservation Council
ANZG	Australian and New Zealand Guidelines
AIP	<i>Aquifer Interference Policy</i>
ARI	average recurrence interval
ARMCANZ	Agriculture and Resources Management Council of Australia and New Zealand
ARTC	Australian Rail Track Authority
AS	Australian Standard
ASS	acid sulfate soils
BC Act	<i>Biodiversity Conservation Act 2016 (NSW)</i>
BDAR	Biodiversity Development Assessment Report
Bgl	below ground level
BoM	Bureau of Meteorology
BTEX	benzene, toluene, ethylbenzene and xylene
CBD	central business district
CCN	Central Coast and Newcastle
CEMF	Construction environmental management framework
CEMP	Construction Environmental Management Plan
CLM Act	<i>Contaminated Land Management Act 1997 (NSW)</i>
CNVMP	Construction Noise and Vibration Management Plan
CNVS	Construction noise and vibration strategy
CO	carbon monoxide
CO ₂	carbon dioxide
Covid-19	Coronavirus disease 2019
CSIRO	Commonwealth Scientific and Industrial Research Organisation
CSSI	critical State significant infrastructure
CTMF	Construction traffic management framework
CTMP	Construction traffic management plan
dB	Decibel
dB(A)	A-weighted decibels. A-weighting is applied to instrument-measured sound levels in an effort to account for the relative loudness perceived by the human ear, as the ear is less sensitive to low audio frequencies.
DECC	(former) NSW Department of Environment and Climate Change (now Environment, Energy and Science (EES))
DECCW	(former) NSW Department of Environment, Climate Change and Water (now Environment, Energy and Science (EES))
DIN 4150	German Standard DIN 4150-3: Structural vibration - Effects of vibration on structures
DPE	(former) NSW Department of Planning and Environment (now NSW Department of Planning, Industry and Environment)
DPI	Department of Primary Industries
EC	electrical conductivity
EES	Department of Planning, Industry and Environment, Environment, Energy and Science (EES) group
EHC Act	<i>Environmentally Hazardous Chemicals Act 1985</i>

Abbreviation	Meaning
EIA	environmental impact assessment
EIS	Environmental Impact Statement
ENM	excavated natural material (not capitalised before abbreviation)
EP&A Act	<i>Environmental Planning and Assessment Act 1979 (NSW)</i>
EPA	NSW Environment Protection Authority
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act 1999 (Cth)</i>
ETP	Eastern Tunnelling Package
FM Act	<i>Fisheries Management Act 1994 (NSW)</i>
FMP	Flood Management Plan
GCCCAA	<i>Guideline for Child Care Centre Acoustic Assessment Version 2.0</i> , Association of Australasian Acoustical Consultant, 2013
HNA	Highly Noise Affected
IAQM	Institute of Air Quality Management
ICNG	Interim Construction Noise Guideline
ISCA	Infrastructure Sustainability Council of Australia
ISO	International Organization for Standardization
kL/day	kilolitres per day
km	kilometres
kV	kilovolt
L_{A1}	Statistical noise descriptor: noise level not exceeded for 1% of the measurement period. Typically used to represent the maximum noise level, excluding a few non-typical extraneous events.
L_{90}	Statistical noise descriptor: noise level not exceeded for 90% of the measurement period. Typically used to represent the background noise level.
L_{eq}	Equivalent noise level: equivalent energy averaged noise level which over a defined time period would contain the same energy as the time varying signal over the same time period.
$L_{Aeq (period)}$	The 'energy average noise level' evaluated over a defined measurement period (typically 15 minutes for construction noise or the relevant daytime, evening or night-time period for ambient noise monitoring).
L_{Amax}	The 'maximum noise level' for an event, used in the assessment of potential sleep disturbance during night-time periods.
LALC	Local Aboriginal Land Council
LEP	Local Environmental Plan
LGA	local government area
LoS	level of service
LTADEL	long-term average annual extraction limit
m ²	square metres
m ³	cubic metres
mg/l	milligrams per litre
ML/day	megalitres per day
MNES	matters of national environmental significance
MPN	most probable number
NBN	National Broadband Network
NCA	noise catchment area
NEPM	National Environment Protection (Ambient Air Quality) Measure
NHL	National Heritage List
NHMRC	National Health and Medical Research Council
NML	noise management level

Abbreviation	Meaning
NO ₂	nitrogen dioxide
NO _x	nitrogen oxide
NSW	New South Wales
NTR	National Trust Register
NTU	nephelometric turbidity unit
OCCS	Overarching Community Communications Strategy
OEH	(former) Office of Environment and Heritage (NSW Government) (now Environment, Energy and Science (EES))
OOH	Out of Hours - Outside of standard construction hours which are Monday to Friday (7am to 6pm), Saturday (8am to 1pm), with no work on Sundays or public holidays
PA	Public Address
PAD	potential archaeological deposit
PAH	polycyclic aromatic hydrocarbons
PASS	potential acid sulfate soils
PCB	polychlorinated biphenyls
PCT	Plant Community Types
PFAS	per-and polyfluorinated alkyl substances
PM	particulate matter
PM ₁₀	particulate matter of up to 10 micrometres
PM _{2.5}	particulate matter of up to 2.5 micrometres
PMF	probable maximum flood
POEO Act	<i>Protection of the Environment Operations Act 1997 (NSW)</i>
PPM	parts per million
PPV	peak particle velocity
RAP	Registered Aboriginal Party
RBL	rating background noise level or LA90 (period). - the background noise level in the absence of proposed construction activities. This parameter represents the average minimum noise level during the daytime, evening and night-time periods and is used to set the LAeq(15 minute) noise management levels for residential receivers
RNE	Register of the National Estate
SEARs	Planning Secretary's Environmental Assessment Requirements
SEPP	State Environmental Planning Policy
SHR	State Heritage Register
SIA	Social Impact Assessment
SO ₂	sulphur dioxide
SPECTS	Safety, Productivity and Environment Construction Transport Scheme
SSI	State significant infrastructure
TBM	tunnel boring machine
tCO ₂ -e	tonnes of carbon dioxide equivalent
TPH	total petroleum hydrocarbon
TPG	TPG Capital, previously known as Texas Pacific Group, is an American investment company
TSP	total suspended particulate
TSS	total suspended solids
UNESCO	United Nations Education, Scientific and Cultural Organization
VDV	vibration dose values
VENM	virgin excavated natural material
VOC	volatile organic compounds