



Australian Government



**Sydney Metro –
Western Sydney Airport**

Chapter 29

References and terminology

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29 References and terminology

29.1 References

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29.2 Glossary of terms and abbreviations

29.2.1 Terms

Term	Definition
Aboriginal object	Any deposit, object or material evidence (not being a handicraft 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</i> (NSW).
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 project, including ancillary facilities and services and land temporarily required for construction (incorporating construction elements such as compounds, access tracks 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 to lower the groundwater levels adjacent to the structure.
earthworks	Operations involved in loosening, excavating, placing, shaping and compacting soil or rock.
East West Rail Link	Refers to a potential future rail line linking the project with Parramatta to the east.
embankment	An earthen structure where the road (or other infrastructure) subgrade level is above 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.
North South Rail Line	A corridor recommended by Transport for NSW for future passenger rail line connecting Tallawong in Rouse Hill with Macarthur via St Marys and Western Sydney International.
obstruction limitation surface	An invisible level that defines the limits to which objects may project into the airspace around an aerodrome so that aircraft operations may be conducted safely.
operational footprint	The land permanently required for operation of the project.
peak discharge	The maximum discharge occurring during a flood event.
peak flood level	The maximum water level occurring during a flood event.
permanent spoil placement area	Refers to the permanent spoil placement area proposed within Western Sydney International.
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.
prescribed airspace	The airspace above any part of either an Obstruction Limitation Surface or a 'procedures for air navigation systems – aircraft operations' (PANS-OPS) surface for Sydney Airport. The obstacle limitation surface is an invisible level that defines the limits to which objects may project into the airspace around an aerodrome so that aircraft operations may be conducted safely.
the project	Sydney Metro – Western Sydney Airport
Proponent	For the purpose of the project, the proponent is Sydney Metro.
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 or ground movement	Refers to how ground can move due to the construction of new infrastructure.
services facility	Typically includes tunnel ventilation plant rooms and associated air-distribution equipment.
St Marys to Orchard Hills tunnel	Consisting of around 4.3 kilometres of twin rail tunnels (generally located side by side) between St Marys (the northern extent of the project) and Orchard Hills.
South West Rail Link Extension	Future extension of the South West Rail Link extending the existing passenger rail line from Leppington Station to the Aerotropolis.

Term	Definition
stabling and maintenance facility	Consists of the structures used for the stabling and maintenance of rolling stock and the operational control centre located to the south of Blaxland Creek and east of the proposed metro track.
stockpile	Temporary stored materials such as soil, sand, gravel, spoil/waste.
study area	Based on the project design to be assessed in the EIS, each technical discipline will define a study area based on the project footprint and a suitable buffer area.
surface alignment	Refers to alignment that is in cutting or at grade, or a combination of both. (i.e. not underground or in tunnel).
undrained structure	A structure in which groundwater is stopped from entering 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.
Western Parkland City	Part of Greater Sydney Commission's vision for a metropolis of three cities (the other two cities being the Eastern Harbour City and the Central River City). The city will be established on the strength of the new international Western Sydney International and Western Sydney Aerotropolis. It will be a polycentric city capitalising on the established centres of Liverpool, Greater Penrith and Campbelltown-Macarthur.
Western Sydney Aerotropolis	It includes the land surrounding Western Sydney International (including Bringelly, Luddenham, Kemps Creek, Badgerys Creek and Rossmore) where there will be opportunities to deliver new jobs and homes supported by key infrastructure. This will include commercial and industrial precincts, and agricultural land, as well as proposed transport corridors.
Western Sydney Airport	The Australian government-owned organisation responsible for delivering and operating Western Sydney International (Nancy-Bird Walton) Airport.
Western Sydney International	Western Sydney International (Nancy-Bird Walton) Airport.
Western Sydney International Stage 1 Construction Impact Zone	Part of the on-airport environment referred to in the Airport Plan as the Construction Impact Zone.
Western Sydney International to Bringelly tunnel	Consisting of: <ul style="list-style-type: none"> • around 3.3 kilometres of twin rail tunnels (including tunnel portal) within Western Sydney International from around 400 metres southwest of the Airport Business Park Station to the southern boundary of Western Sydney International (Badgerys Creek) • around three kilometres of twin rail tunnels between the southern boundary of Western Sydney International (Badgerys Creek) and the Aerotropolis Core Station.
Western Sydney International tunnel portal	Refers to the tunnel portal at the northern end of the Western Sydney International to Bringelly tunnel.

29.2.2 Abbreviations

Abbreviation	Meaning
µm	Micrometre
AAR	Aboriginal Archaeological Report
ABS	Australian Bureau of Statistics
ACHAR	Aboriginal Cultural Heritage Assessment Report
ACHMP	Aboriginal Cultural Heritage Management Plan
ADWG	Australian Drinking Water Guidelines
AEC	areas of environmental concern
AEP	annual exceedance probability
AHD	Australian height datum
AHIMS	Aboriginal Heritage Information Management System
ANEC	Australian Noise Exposure Concept
ANEF	Australian Noise Exposure Forecast
ANL	Amenity noise level
Airports Act	<i>Airports Act 1996 (Cth)</i>
ANZECC	Australian and New Zealand Environment Conservation Council
AIP	Aquifer Interference Policy
ARI	average recurrence interval
ARMCANZ	Agriculture and Resources Management Council of Australia and New Zealand
AS	Australian Standard
ASS	acid sulfate soils
AVTG	Assessing Vibration – A technical guideline
BAM	Biodiversity Assessment Method
BC Act	<i>Biodiversity Conservation Act 2016 (NSW)</i>
BDAR	Biodiversity Development Assessment Report
Bgl	below ground level
BoM	Bureau of Meteorology
CASA	Civil Aviation Safety Authority
CBD	central business district
CCTV	closed circuit television
CEEC	Critically Endangered Ecological Community
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

Abbreviation	Meaning
CO ₂	carbon dioxide
COAG	Council of Australian Government's
CPCP	Cumberland Plain Conservation Plan
CSEP	<i>Western Sydney Airport Community and Stakeholder Engagement Plan</i>
CSIRO	Commonwealth Scientific and Industrial Research Organisation
CSSI	critical State significant infrastructure
CTMF	Construction Traffic Management Framework
CTMP	Construction Traffic Management Plan
DAWE	Department of Agriculture, Water and Environment (Australian Government) (formerly DoEE)
DAP	Design Advisory Panel
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.
DCP	Development Control Plan
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))
DIRD	(former) Department of Infrastructure and Regional Development (Australian Government) now Department of Infrastructure, Transport, Regional Development and Cities (DITRDC).
DIRDC	(former) Department of Infrastructure, Regional Development and Cities (Australian Government) now Department of Infrastructure, Transport, Regional Development and Cities (DITRDC).
DITRDC	Department of Infrastructure, Transport, Regional Development and Cities (Australian Government)
DIN 4150	German Standard DIN 4150-3: Structural vibration – Effects of vibration on structures
DoI	NSW Department of Industries
DoEE	(former) Department of the Environment and Energy (Australian Government) now Department of Agriculture, Water and Environment
DPE	Former NSW Department of Planning and Environment (now NSW Department of Planning, Industry and Environment)
DPI	NSW Department of Primary Industries
DPIE	NSW Department of Planning, Industry and Environment
DRP	Design Review Panel
EC	electrical conductivity
ECRTN	Environmental Criteria for Road Traffic Noise
ECZ	Environmental Conservation Zone
eVDV	Estimated vibration dose value
EEC	Endangered ecological community

Abbreviation	Meaning
EES	Environment, Energy and Science, a group within the NSW Department of Planning, Industry and Environment.
EIL	ecological investigations levels
EIS	Environmental Impact Statement
ENM	excavated natural material
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>
EPL	environment protection licence
ESD	ecologically sustainable development
ESL	ecological screening levels
EY	exceedances per year
FFS	Free flow speed
FM Act	<i>Fisheries Management Act 1994 (NSW)</i>
FOWSA	Forum on Western Sydney Airport
FTE	full-time equivalent
GDE	groundwater dependent ecosystem
HCA	Heritage Conservation Area
HVAC	Heating, ventilation, and air-conditioning
IAQM	Institute of Air Quality Management
ICNG	Interim Construction Noise Guideline
INP	Industrial Noise Policy
IPCC	Intergovernmental Panel on Climate Change
ISEPP	<i>State Environmental Planning Policy (Infrastructure) 2007</i>
ISCA	Infrastructure Sustainability Council of Australia
ISO	International Organization for Standardization
kL/day	kilolitres per day
km	kilometres
KTP	Key Threatening Process
kV	kilovolt
L ₁	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 ₁₀	Statistical noise descriptor: noise level not exceeded for 10% of the measurement period. Typically used to represent the upper noise level.
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.

Abbreviation	Meaning
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
LSPS	Local Strategic Planning Statement
m ²	square metres
m ³	cubic metres
mg/l	milligrams per litre
ML/day	megalitres per day
MNES	matters of national environmental significance
NASF	National Airport Safeguarding Framework
NCA	noise catchment area
NEPM	National Environment Protection Measure
NFPA	National Fire Protection Association
NML	noise management level
NO ₂	nitrogen dioxide
NO _x	nitrogen oxide
NPI	NSW Noise Policy for Industry
NSW	New South Wales
NWQMS	National Water Quality Management Strategy
OCCS	Overarching Community Communications Strategy
OCP	organochlorine pesticides
OEH	(former) Office of Environment and Heritage (NSW Government) (now Environment, Energy and Science (EES))
OEMP	Operation Environment Management Plan
OH&S	occupational health and safety
OLS	Obstruction Limitation Surface
ONVMP	Operational Noise and Vibration Management Plan
ONVR	Operational Noise and Vibration Review
PA	Public address
PAD	potential archaeological deposit
PAH	polycyclic aromatic hydrocarbons
PANS-OPS	Procedures for Air Navigation Systems – Aircraft Operations
PASS	potential acid sulfate soils

Abbreviation	Meaning
PCB	polychlorinated biphenyls
PCT	Plant Community Types
PFAS	Per- and polyfluoroalkyl 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
PNTL	proposal noise trigger level
PoEO Act	<i>Protection of the Environment Operations Act 1997 (NSW)</i>
PPM	parts per million
PPV	peak particle velocity
PSA	Public safety area
RBL	rating background noise level or L _{A90 (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 L _{Aeq(15 minute)} noise management levels for residential receivers
RING	Rail Infrastructure Noise Guideline
RIVAS	Railway Induced Vibration Abatement Solutions: a joint research and development project carried out in Europe
RNP	Road Noise Policy
SEARs	Planning Secretary's Environmental Assessment Requirements
SEPP	State Environmental Planning Policy
SES	State Emergency Services
SHR	State Heritage Register
SME	small and medium enterprises
SMPs	Sustainability Management Plans
SO ₂	sulphur dioxide
SRD	<i>State Environmental Planning Policy (State and Regional Development) 2011</i>
SSI	State significant infrastructure
SWL	sound power levels
TAGG	Transport Authorities Greenhouse Gas Group
TBM	tunnel boring machine
TCP	Traffic Control Plan
TEC	Threatened Ecological Communities
TfNSW	Transport for NSW
TMC	Transport Management Centre
TPH	total petroleum hydrocarbon
TSP	total suspended particulate

Abbreviation	Meaning
TSS	total suspended solids
TLG	Transport Liaison Group
UNFCCC	United Nation Framework Convention on Climate Change
USTs	underground storage tanks
UXO	unexploded ordnance
VDV	vibration dose values
VENM	virgin excavated natural material
VOC	volatile organic compounds
WARR Act	<i>Waste Avoidance and Resource Recovery Act 2001 (NSW)</i>
WPCA	Western Parkland City Authority
WHO	World Health Organisation
WM Act	<i>Water Management Act 2000 (NSW)</i>
WONS	Weeds of national significance
WRTM	WestConnex Road Toll Model
WSAP	Western Sydney Aerotropolis Plan
WSA SEPP	<i>State Environmental Planning Policy (Western Sydney Aerotropolis) 2020</i>
WSIP	Western Sydney Infrastructure Plan
WSUD	Water Sensitive Urban Design