

Glossary of Terms

$\mu\text{g}/\text{m}^3$	micrograms per cubic metre
AADT	Average Annual Daily Traffic
aaSIDRA software	Traffic modelling software
Aboriginal Cultural Heritage	Aboriginal cultural heritage is anything that is— (a) a significant Aboriginal area in Queensland; or (b) a significant Aboriginal object; or (c) evidence, of archaeological or historic significance, of Aboriginal occupation of an area of Queensland.
ABS	Australian Bureau of Statistics
Acid Sulphate Soil	The Queensland State Government defines Acid Sulphate Soil as: <i>Soil or sediment containing highly acidic soil horizons or layers affected by the oxidation of iron sulphides (actual acid sulphate soils) and/or soil or sediment containing iron sulphides or other sulphidic material that has not been exposed to air and oxidised (potential acid sulphate soils).</i> <i>Note: The term acid sulphate soil generally includes both actual and potential acid sulphate soils. Actual and potential acid sulphate soils are often found in the same soil profile, with actual acid sulphate soils generally overlying potential acid sulphate soil horizons.</i>
Acoustic barriers	A barrier designed to reduce the noise impacts of an activity on nearby sensitive areas
AHD	Australian Height Datum
Airshed	Lower atmosphere within a defined geographic region
Ambient	The background level at a specified location, being a composite of all sources. Examples include noise and air pollutants.
Amenity	A feature that increases attractiveness or value, especially of a piece of real estate or a geographic location.
Anaerobic	Anaerobic is a technical word, which literally means <i>without air</i> , as opposed to aerobic. The presence or absence of air, or more precisely the presence or absence of oxygen in the air, affects various chemical and biological reactions.
ANZECC	Australia and New Zealand Environment Conservation Council
APL	Airport Link
ARI	ARI Average Recurrence Interval (hydrology)
ATC	Australia TradeCoast
AWDT¹	Average Weekday Traffic Volumes
A-weighted sound pressure level	A noise level measurement relative to the threshold of human hearing, measured in dB(A)
BAC	Brisbane Airport Corporation
BCC	Brisbane City Council
BCR	Benefit-cost ratio
Breccia	A type of rock similar to conglomerate but made of sharp, broken clasts cemented together.
Brecciated zone	A zone consisting of angular fragments cemented together; resembling breccia in appearance.
Brisbane City Plan 2000	The Brisbane City Plan 2000 is the Council's planning scheme. It describes the Council's intentions and outcomes for Brisbane city's future development.
Brisbane Tuff	'Welded' rock formation formed in the Brisbane area through volcanic activity in the Triassic period, comprised of rhyolitic ignimbrite and minor air-fall tuff, conglomerate, breccia, and volcano lithic arenite.
BSD	Brisbane Statistical Division

BSTM	Brisbane Strategic Transport Model that provides travel demand forecasts. The Airport Link Traffic Model has been based on the BSTM.
Bunya Phyllite	Phyllite is a type of metamorphic rock primarily composed of quartz, sericite mica, and chlorite; the rock is intermediate in grade between slate and mica schist.
CAPEX	Capital Expenditure, referring to money spent to acquire or upgrade physical assets such as buildings and machinery.
CBA	Cost Benefit Analysis
CBD	Central Business District
CCTV	Close circuit television
CEMP	Construction Environmental Management Plan
CHMP	Cultural Heritage Management Plan
CLG	Community Liaison Group
CLR	Contaminated Land Register
CO	Carbon Monoxide
Coordinator-General	The corporation sole constituted under the <i>State Development and Public Works Organisation Act 1938</i> and preserved, continued in existence and constituted under the <i>State Development and Public Works Organisation Act 1971</i>
CPTED	Crime Prevention through Environmental Design
CTMP	Construction Traffic Management Plan
Cumulative impacts	The combined impact on the environment from the successive effects of a number of different projects or activities
Cut and cover	A method of tunnelling. Construction is from ground surface down forming a trench. The trench is 'lidded' after construction.
Dangerous goods	Goods defined under the Australian Dangerous Goods Code as either dangerous goods or too dangerous to be transported.
DDA	Disability Discrimination Act 1992 (Cth)
Deluge system	The purpose of a deluge system is to wet down all at once an entire area in which a fire may originate, by admitting water to open sprinklers and nozzles, rather than by using automatic sprinklers that would open independently as the fire spreads. These systems are designed primarily for special hazards where it is desirable to apply water to a fire more quickly and simultaneously over a larger area than with standard systems where sprinklers open individually.
Demography	The statistical study of human populations especially with reference to size and density, distribution, and vital statistics.
DES	Queensland Department of Emergency Services
Design life	The time before first major maintenance
Diurnal bird survey	Survey on birds that are active during the daytime and sleep during the night. Animals that are not diurnal are either nocturnal (active at night) or crepuscular (active primarily during twilight). Many animal species are diurnal, including many mammals and birds.
DM	"Do Minimal" or "No Tunnel" option
DMR	Queensland Department of Main Roads
DNRMW	The Queensland Department of Natural Resources, Mines and Water
DPI&F	Queensland Department of Primary Industries and Fisheries
Drawdown	Two distinct meanings include: - Drawdown (hydrology), a lowering of a reservoir or a change in hydraulic head in an aquifer, typically due to pumping a well. - Drawdown (economics), unrealised losses in economics.
Ecosystem	A dynamic complex of plant, animal, fungal and micrograms communities and associated non-living environment interacting as an ecological unit to form a recognisable self-contained entity.
EIS	Environmental Impact Statement
EMP	Environmental Management Plan

EMR	Environmental Management Register
EPA	Queensland Environmental Protection Agency
EPBC Act	Environment Protection and Biodiversity Conservation Act 1999 (Cth)
EPBM	Earth pressure balance (tunnel boring) machine
ESD	Ecologically Sustainable Development
E-toll	Electronic tolling
EVRs	Endangered, vulnerable or rare species
Fast Diamond	Intersection at which traffic from opposite directions is able to make right hand turns at the same time whilst having only one set of traffic lights
Finial	The finial is an architectural device, typically carved in stone and employed to decoratively emphasise the apex of a gable, or any of various distinctive ornaments at the top, end, or corner of a building or structure.
Fissures	A narrow opening or crack of considerable length and depth usually occurring from some breaking or parting.
Gallery rainforest	Fringing rainforest on the edge of creeks
Gambrel	A ridged roof with two slopes on either side, the lower slope having the steeper pitch.
Green Bridge	A Brisbane City Council project to construct a bridge between Dutton Park and the University of Queensland at St Lucia.
Groundwater aquifer	An underground bed or layer of earth, gravel, or porous stone that yields water.
GUP	Gateway Upgrade Project
HerbreCs database	HerbreCs database description: Oracle relational database including taxon names and specimen data run by Queensland Environmental Protection Agency
Heritage	Places, objects and indigenous languages that have aesthetic, architectural, historical, scientific, technological or social significance of other special value for future generations as well as for the community today.
IAS or Initial Advice Statement	A report containing a brief, preliminary evaluation of the types of impacts that would result from an action. Often use as a screening process to assess whether proposals should undergo an EIS under the <i>State Development and Public Works Organisation Act 1971</i> .
ICB	Inner City Bypass
IDAS	Integrated Development Assessment System
Ignimbrite	Buff to dark brown compact rock with parallel streaks or lenticles of black glass, formed through volcanic activity.
Inbound lane	Road lane travelling toward the CBD
IPA	Integrated Planning Act 1997 (Qld)
LGA	Local Government Authority
Liveability	A measure of social amenity, health and well-being.
LOS	Level of Service
mg/m³	milligrams per cubic metre
Morphology	Form and structure of an organism or any of its parts
NALL	Natural Asset Local Law
NB	Northern Busway
NEPC	National Environment Protection Council of Australia
NHMRC	National Health and Medical Research Council
NIEIR	National Institute of Economic and Industry Research
NO₂	Nitrogen dioxide
Notifiable Activities	An activity that has been identified as potentially contaminating activity under Schedule 3 of the <i>Environmental Protection Act 1994</i> .
NO_x	Nitrogen oxides or oxides of nitrogen

NPV	Net present value
NSBT	North-South Bypass Tunnel
O₃	Ozone
OPEX	Operational Expenditure; refers to the on-going costs for running a product, business, or system.
Orbital road networks	Circumferential highway network found around or within many cities, also described as a ring road network
OUM	Office of Urban Management
Outbound lane	Road lane travelling away from the CBD
PASS	Potential Acid Sulphate Soils, defined by the Queensland Government as: <i>Soil or sediment containing iron sulphides or sulphidic material, that have not been exposed to air and oxidised. The field pH of these soils in their undisturbed state is pH 4 or more, and may be neutral or slightly alkaline.</i>
pH	Measure of acidity
PIARC	Permanent International Association of Road Congress
PIFU	Population Information and Forecasting Unit
PM_{2.5}	Particulate matter with equivalent aerodynamic diameter less than 2.5 µm
PM₁₀	Particulate matter with equivalent aerodynamic diameter less than 10 µm
PMCS	Plant Monitoring and Control System
Potential Acid Sulphate Soils	See PASS
ppb	parts per billion
ppm	parts per million
PSC	Pre-stressed concrete
Putrescible Waste	Also known as Mixed Waste (with food). This is normal garbage from households and commercial premises.
Pyrite	The mineral pyrite, or iron pyrite, is iron disulphide, FeS ₂ . It has isometric crystals that usually appear as cubes. The cube faces may be striated (parallel lines on crystal surface or cleavage face) as a result of alternation of the cube and pyritohedron faces. Also known as fool's gold.
QR	Queensland Rail
QT	Queensland Transport
Radial road network	Road network which appears to radiate from a point, usually the central business district.
RAPID	Real Time Advanced Priority and Information Delivery information systems
Rat running	The use of the local roads by extraneous through traffic. The implementation of local area traffic management, including entry thresholds and traffic calming methods is often used to mitigate the impact of potential through traffic use of local roads.
Receiving environments	The environment into which particular materials (solids, liquids or gases) are emitted.
Regenerated noise	Sometimes also referred to as 'structure-borne' or 'ground-borne' noise. Regenerated noise results from ground-borne vibration (from, for example, construction activities) and may be transmitted into building structures, causing vibration of floor slabs and other heavy structures, and hence re-radiating noise into internal spaces.
Remnant vegetation	All intact and predominantly intact vegetation communities, excluding young regrowth.
Riparian vegetation	Riparian vegetation is vegetation on land that adjoins, directly influences or is influenced by, a body of water.
Riparian zone	The biologically distinct area adjoining a watercourse.
RNA	Royal National Association
Roadheader	Type of tunnelling machine

Rhyolitic tuff	Rhyolite is a volcanic (extrusive) rock, of felsic (acidic) composition (>69% SiO ₂). It may have any texture from aphanitic to porphyritic. The mineral assemblage is usually quartz, alkali feldspar and plagioclase (in a ratio > 1:2). Biotite and pyroxene are common accessory minerals. Tuff (from the Italian "tufo") is a type of rock consisting of consolidated volcanic ash ejected from vents during a volcanic eruption. (Note that <i>tuff</i> is a type of rock entirely different from <i>tufa</i>).
Sag point	A low point of a system
SCIP	Suburban Centre Improvement Program
Screen lines	Screen lines are locations (eg. western, central, eastern, northern) referred to when forecasting traffic growth volumes
SDPWO Act	State Development and Public Works Organisation Act, 1971
SEIFA Index	Social And Economic Index For Areas Index
SEQ Regional Plan	South East Queensland Regional Plan, produced by the Queensland Government's Office of Urban Management
SEQIPP	South East Queensland Regional Infrastructure Plan and Program
SMP	Site Management Plan
SO₂	Sulphur dioxide
Social sustainability	Social sustainability refers to a community's ability to support community well-being over time, and is dependent on the maintenance of equity, community values and healthy environments.
Spoil	Soil or rock removed from the construction works
Stakeholders	Groups, companies or individuals who may be potentially affected, or have a particular interest in a proposal. Stakeholders may include local residents, government agencies, Aboriginal groups/ Land Councils/ Council of Elders, local businesses, relevant business and industry groups, community groups, potential competitors, and politicians/ elected representatives.
STOB	Strategic Transport Opportunities for Brisbane, Brisbane City Council, 2000
Sump	Pit at the lowest point in a circulating or drainage system.
SVOC	Semi-Volatile Organic Compounds
TBM	Tunnel Boring Machine
ToR	Terms of Reference for the Airport Link Environmental Impact Statement dated March 2006
TransApex	A proposed series of tolled tunnels and bridges providing a ring road network around the CBD
Translink	Part of Queensland Transport; is responsible for centrally planning and coordinating all major public transport routes, services, connections and infrastructure in SEQ
Transponder	A transponder is a wireless communications, monitoring, or control device that picks up and automatically responds to an incoming signal, and is used for electronic tolling.
Urban renewal	A process of revitalising a locality or area. Over time, urban renewal has evolved into a policy based less on destruction and more on renovation and investment, and today is an integral part of many local governments, often combined with small and big business incentives. Source: http://en.wikipedia.org/wiki/Urban_renewal
VHT	Vehicle Hours Travelled
Viaducts	A viaduct is bridge composed of several small spans. The term <i>viaduct</i> is derived from the Latin <i>via</i> for road and <i>ductus</i> to conduct something.
Vitiated Air	The output from ventilation outlets consisting of a combination of ambient air and air produced in tunnels from vehicles.
VKT	Vehicle Kilometres Travelled
VMS	Variable message sign
VOC	Vehicle operating costs

Volumetric title	A three-dimensional space above or below a surface which is owned by a property title holder. For the purposes of Airport Link, a volumetric title refers to the subsurface three-dimensional title.
VPOs	Vegetation Protection Orders
VWP	Vibrating wire piezometers
WebBASX	The Brisbane City Council database containing geographical data
WMP	Waste Management Plan
WQOs	Water Quality Objectives