State code 5: Development in a statecontrolled transport tunnel environment

5.1 Purpose statement

The purpose of this code is to protect **state-controlled transport tunnels** from adverse impacts of development. The purpose of this code is also to protect the safety of people using, and living and working near **state-controlled transport tunnels**.

Specifically, this code seeks to ensure:

- 1. development does not create a safety hazard for users of a **state-controlled transport tunnel**, by increasing the likelihood or frequency of fatality or serious injury
- 2. development does not compromise the structural integrity of state-controlled transport tunnels
- development does not compromise the state's ability to construct state-controlled transport tunnels and future state-controlled transport tunnels, or significantly increase the cost to construct statecontrolled transport tunnels and future state-controlled transport tunnels
- 4. development does not compromise the state's ability to maintain and operate **state-controlled transport tunnels**, or significantly increase the cost to maintain and operate **state-controlled transport tunnels**
- 5. the community is protected from significant adverse impacts resulting from environmental emissions generated by **state-controlled transport tunnels**.

Note: A document to provide guidance on how to comply with the performance outcomes of this code is currently being drafted by the Department of Transport and Main Roads.

5.2 Performance outcomes and acceptable outcomes

All development in a **state-controlled transport tunnel** environment should demonstrate compliance with the relevant provisions of table 5.2.1.

All development in a **future state-controlled transport tunnel** environment should demonstrate compliance with the relevant provisions of table 5.2.2.

Table 5.2.1: Development in a state-controlled tunnel environment

Performance outcomes	Acceptable outcomes
Buildings and structures	
PO1 The location of buildings, structures, infrastructure, services and utilities does not cause damage to a state-controlled transport tunnel, or obstruct state-controlled transport tunnel infrastructure.	AO1.1 Buildings, structures, infrastructure, services and utilities are not located on land identified as a state-controlled transport tunnel. AND
	AO1.2 Buildings, structures, infrastructure, services and utilities can be maintained without requiring access to land identified as a state-controlled transport tunnel.
PO2 Buildings, structures, infrastructure, services and utilities do not interfere with, or result in damage to, infrastructure or services in a state-controlled transport tunnel.	No acceptable outcome is prescribed.
Note: Information on the location of services and public utilities in a state-controlled transport tunnel can be obtained from the railway manager and/or 'Dial Before You Dig' service.	

Porformanco outcomos	Acceptable outcomes
Performance outcomes	Acceptable outcomes
Where development will impact on a service or public utility plant in a state-controlled transport tunnel, such that the service or	
public utility plant will need to be relocated, an applicant should	
contact the relevant service or public utility plant provider for	
standards and design specifications for the alternative alignment. Any costs of relocation are to be borne by the developer.	
PO3 Buildings, structures, infrastructure, services	No acceptable outcome is prescribed.
and utilities do not add or remove loading that will	The decoptable outcome to proceined.
cause damage to a state-controlled transport	
tunnel or state-controlled tunnel infrastructure.	
Note: To demonstrate compliance with this performance outcome, it is recommended a Registered Professional Engineer of Queensland (RPEQ) certified geotechnical assessment is provided.	
PO4 Buildings, structures, infrastructure, services	No acceptable outcome is prescribed.
and utilities do not cause ground movement or	The acceptable dateome is presented.
vibration impacts that would cause damage or	
nuisance to a state-controlled transport tunnel or	
state controlled transport tunnel infrastructure.	
Note: To demonstrate compliance with this performance outcome,	
it is recommended a RPEQ certified geotechnical assessment is provided.	
PO5 Buildings, structures, infrastructure, services	No acceptable outcome is prescribed.
and utilities do not cause ground water disturbance	
on land for a state-controlled transport tunnel.	
Note: To demonstrate compliance with this performance outcome,	
it is recommended a RPEQ certified geotechnical assessment, is provided.	
provided.	
Filling, excavation and retaining structures	
Filling, excavation and retaining structures PO6 Filling, excavation and retaining structures do	No acceptable outcome is prescribed.
PO6 Filling, excavation and retaining structures do not interfere with, or result in damage to,	No acceptable outcome is prescribed.
PO6 Filling, excavation and retaining structures do not interfere with, or result in damage to, infrastructure or services in a state-controlled	No acceptable outcome is prescribed.
PO6 Filling, excavation and retaining structures do not interfere with, or result in damage to,	No acceptable outcome is prescribed.
PO6 Filling, excavation and retaining structures do not interfere with, or result in damage to, infrastructure or services in a state-controlled transport tunnel.	No acceptable outcome is prescribed.
PO6 Filling, excavation and retaining structures do not interfere with, or result in damage to, infrastructure or services in a state-controlled	No acceptable outcome is prescribed.
PO6 Filling, excavation and retaining structures do not interfere with, or result in damage to, infrastructure or services in a state-controlled transport tunnel. Note: Information on the location of services and public utilities in a state-controlled transport tunnel can be obtained from the railway manager and/or 'Dial Before You Dig' service.	No acceptable outcome is prescribed.
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Performance outcomes	Acceptable outcomes
PO9 Development does not involve blasting.	No acceptable outcome is prescribed.
PO10 Filling and excavation, building foundations	No acceptable outcome is prescribed.
and retaining structures do not cause damage to a	The acceptable catedine is presented.
state-controlled transport tunnel by adding or	
removing loading .	
3	
Note: To demonstrate compliance with this performance outcome,	
it is recommended a RPEQ certified geotechnical assessment is	
PO11 Filling and excavation, building foundations	No acceptable outcome is prescribed.
and retaining structures do not cause ground	No acceptable outcome is prescribed.
water disturbance to a state-controlled transport	
tunnel corridor.	
tumer corridor.	
Note: To demonstrate compliance with this performance outcome,	
it is recommended a RPEQ certified geotechnical assessment is	
provided.	AO40 4 Fill material in from a forest and a sustainable
PO12 Fill material from a development site does not	AO12.1 Fill material is free of contaminants
result in contamination of a state-controlled transport tunnel corridor.	including acid sulfate content.
transport tunnel corridor.	Note: Soil and rocks should be tested in accordance with AS
	1289 – Methods of testing soils for engineering purposes and AS
	4133 2005 – Methods of testing rocks for engineering purposes.
	AND
	AO12.2 Compaction of fill is carried out in
	accordance with the requirements of AS 1289.0
	2000 – Methods of testing soils for engineering
P040 F38	purposes.
PO13 Filling and excavation in the vicinity of a state-	AO13.1 Compaction of fill is carried out in
controlled transport tunnel portal does not cause	accordance with the requirements of AS 1289.0
wind-blown dust nuisance in a state-controlled	2000 – Methods of testing soils for engineering
transport tunnel.	purposes.
	AND
	AND
	AO13.2 Dust suppression measures are used during
	filling and excavation activities such as wind breaks
	or barriers and dampening of ground surfaces.
PO14 Filling and excavation material does not cause	AO14.1 Development does not store fill, spoil or any
damage, obstruction or nuisance in a state-	other material in a state-controlled transport
controlled transport tunnel corridor.	tunnel corridor.
Stormwater and drainage	
PO15 Development does not result in an actionable	No acceptable outcome is prescribed.
nuisance or worsening of stormwater, flooding or	· '
drainage impacts in a state-controlled transport	
tunnel corridor or a state-controlled transport	
tunnel.	
PO16 Run-off from the development site during	AO16.1 Run-off from the development site during
construction of development does not cause siltation	construction is not discharged to stormwater
of stormwater infrastructure affecting a state-	infrastructure for a state-controlled transport
controlled transport tunnel.	tunnel.
PO17 Development does not cause damage to	No acceptable outcome is prescribed.
tunnel drainage structures.	
Access	
PO18 Vehicular access to a development is not from a state-controlled transport tunnel.	No acceptable outcome is prescribed.

Performance outcomes	Acceptable outcomes
PO19 Development does not obstruct or impede existing access to a state-controlled transport tunnel.	AO19.1 Development is designed and sited to ensure existing authorised access points and access routes for maintenance and emergency works to a state-controlled transport tunnel are clear from obstructions at all times.
Network safety	
PO20 Development involving dangerous goods adjacent to a state-controlled transport tunnel corridor does not adversely impact on the safety or operations of a state-controlled transport tunnel. Note: Development involving dangerous goods, or hazardous chemicals above the threshold quantities listed in table 5.2 of the Model Planning Scheme Development Code for Hazardous Industries and Chemicals, Office of Industrial Relations, Department of Justice and Attorney-General, 2016, should demonstrate that impacts on a state-controlled transport tunnel from a fire, explosion, spill, gas emission or dangerous goods incident can be appropriately mitigated.	AO20.1 Development does not involve handling or storage of hazardous chemicals above the threshold quantities listed in table 5.2 of Model Planning Scheme Development Code for Hazardous Industries and Chemicals, Office of Industrial Relations, Department of Justice and Attorney-General, 2016.
Air and light	
PO21 Development involving an accommodation activity located near a state-controlled transport tunnel portal minimises air quality impacts from a state-controlled transport tunnel in outdoor spaces for passive recreation. PO22 Development involving a: 1. childcare centre; or	AO21.1 Each dwelling has access to an outdoor space for passive recreation which is shielded from a state-controlled transport tunnel portal by a building, solid gap-free fence, or other solid gap-free structure. AO22.1 Each outdoor education area and outdoor play area is shielded from a state-
2. educational establishment located near a state-controlled transport tunnel portal minimises air quality impacts from a state- controlled transport tunnel in outdoor education areas and outdoor play areas.	controlled transport tunnel portal by a building, solid gap-free fence, or other solid gap-free structure.
PO23 Development involving an accommodation activity or hospital located near a state-controlled transport tunnel portal minimises lighting impacts from a state-controlled transport tunnel.	AO23.1 Buildings for an accommodation activity or hospital are designed to minimise the number of windows or transparent/translucent panels facing a state-controlled transport tunnel portal.
	OR
	AO23.2 Windows facing a state-controlled transport tunnel include treatments to block light from state-controlled transport tunnel portal.

Table 5.2.2: Development impacting on a future state-controlled tunnel environment

Performance outcomes	Acceptable outcomes
PO24 Development does not impede the delivery of a future state-controlled transport tunnel.	AO24.1 Development is not located on land identified as a future state-controlled transport tunnel corridor.
	OR
	AO24.2 Development is sited and designed so that permanent buildings, structures, infrastructure, services or utilities are not located on land identified as a future state-controlled transport tunnel.
	OR all of the following acceptable outcomes apply:

Performance outcomes	Acceptable outcomes
	AO24.3 Structures and infrastructure located on land identified as a future state-controlled transport tunnel are able to be readily relocated or removed without materially affecting the viability or functionality of the development.
	AND
	AO24.4 Development does not involve filling and excavation of, or material changes to, land identified as a future state-controlled transport tunnel.
	AND
	AO24.5 Land is able to be reinstated to the pre- development condition at the completion of the use.
PO25 Filling and excavation, building foundations and retaining structures do not obstruct, undermine, or cause subsidence of land for a future state-controlled transport tunnel.	No acceptable outcome is prescribed.
Note: To demonstrate compliance with this performance outcome, it is recommended a RPEQ certified geotechnical assessment is provided, prepared in accordance with Volume 3 of the Road Planning And Design Manual 2 nd edition, Department of Transport and Main Roads, 2016.	
PO26 Filling and excavation, building foundations and retaining structures do not cause damage to land for a future state-controlled transport tunnel by adding or removing loading.	No acceptable outcome is prescribed.
Note: To demonstrate compliance with this performance outcome, it is recommended a RPEQ certified geotechnical assessment is provided.	
PO27 Fill material from a development site does not result in contamination of land for a future state-controlled transport tunnel.	AO27.1 Fill material is free of contaminants including acid sulfate content. Note: Soil and rocks should be tested in accordance with AS1289 – Methods of testing soils for engineering purposes and AS4133 2005 – Methods of testing rocks for engineering purposes.
	AND
	AO27.2 Compaction of fill is carried out in accordance with the requirements of AS1289.0 2000 – Methods of testing soils for engineering purposes.
PO28 Development does not result in an actionable nuisance or worsening of stormwater, flooding or drainage impacts on land for a future statecontrolled transport tunnel.	No acceptable outcome is prescribed.

5.3 Reference documents

Department of Justice and Attorney-General (Office of Industrial Relations) 2016, Model Planning Scheme Development Code for Hazardous Industries and Chemicals

Department of Transport and Main Roads 2015, Guide to Development in a Transport Environment: Rail

Department of Transport and Main Roads 2014, State development assessment provisions supporting information – filling and excavation

Department of Transport and Main Roads 2013, State development assessment provisions supporting information – stormwater and drainage

Department of Transport and Main Roads 2014, Design criteria for bridges and other structures manual

Department of Transport and Main Roads 2015, Road drainage manual

Department of Transport and Main Roads 2016, Road Planning and Design Manual 2nd edition: Volume 3

Department of Transport and Main Roads 2016, Transport Noise Management Code of Practice Volume 2: Construction noise and vibration

Department of Energy and Water Supply 2013, Queensland Urban drainage manual

Queensland Rail, Civil Engineering Technical Requirements and standard drawings:

Civil-SR-002 - Work in or about Queensland Rail property

Civil-SR-003 – Requirements for work on or near high voltage overhead line equipment and low voltage services

Civil-SR-005 – Design of buildings over or near railways

Civil-SR-012 - Collision protection of supporting elements adjacent to railways

Civil-SR-014 - Design of noise barriers adjacent to railways

Civil-SR-016 - Requirements for services under the railway corridor (non-QR services)

Standards Australia 2000, AS1289.0-2000 - Methods of testing soils for engineering purposes

Standards Australia 2010, AS2436–2010 – Guide to noise and vibration control on construction, demolition and maintenance sites

Standards Australia 2005, AS4133.0-2005 - Methods of testing rocks for engineering purposes

5.4 Glossary of Terms

Accommodation activity means any of the following:

- 1. caretaker's accommodation
- 2. community residence
- 3. dual occupancy
- 4. dwelling house
- dwelling unit
- 6. multiple dwelling
- 7. relocatable home park
- 8. residential care facility
- 9. resort complex
- 10. retirement facility
- 11. rooming accommodation
- 12. short-term accommodation
- 13. tourist park
- 14. a development with a combination of uses 1 to 13.

Actionable nuisance means where stormwater or surface water drainage to a downstream property causes a loss of enjoyment of property or physical damage to property (termed 'nuisance') such that the nuisance is actionable in law.

Note: See the Queensland Urban Drainage Manual, Department of Energy and Water Supply, 2016 for further information.

ADG code see schedule 1 of the Work Health and Safety Act 2011.

Note: **ADG code** means the Australian Code for the Transport of Dangerous goods by Road and Rail approved by the Australian Transport Council, as updated from time to time.

Childcare centre see schedule 24 of the Planning Regulation 2017.

Note: Childcare centre means the premises used for minding or care, but not residence, of children.

DA mapping system means the mapping system containing the Geographic Information System mapping layers kept, prepared or sourced by the state that relate to development assessment and matters of interest to the state in assessing development applications.

Note: The **DA** mapping system is available on the department's website.

Dangerous goods see schedule 1 of the Work Health and Safety Act 2011.

Note: Dangerous goods means:

- 1. asbestos; or
- 2. anything defined under the ADG code as:
 - a. dangerous goods; or
 - b. goods too dangerous to be transported.

Educational establishment see schedule 24 of the Planning Regulation 2017.

Note: **Educational establishment** means premises used for training and instruction designed to impart knowledge and develop skills. **Educational establishment** includes the following uses and activities if they are ancillary:

- 1. on-site student accommodation
- 2. on-site before and after school care
- 3. on site vacation care.

Future state-controlled transport tunnel see schedule 24 of the Planning Regulation 2017.

Note: Future state-controlled transport tunnel means a tunnel that forms part of a future state transport corridor.

Future state transport corridor see schedule 24 of the Planning Regulation 2017.

Note: Future State transport corridor means:

- 1. a future state-controlled road; or
- 2. a future railway corridor; or
- 3. a future busway corridor; or
- 4. a future light rail corridor.

See the DA mapping system.

Hospital see schedule 24 of the Planning Regulation 2017.

Note: **Hospital** means the use of premises for:

- 1. the medical or surgical care or treatment of patients, whether or not the care or treatment requires overnight accommodation
- 2. providing accommodation for patients.

Hospital includes the use of premises for providing accommodation for employees and other activities that are ancillary to the **hospital**.

Loading means pressure or force exerted on land or infrastructure.

Outdoor education area means outdoor areas intended for use for the training or teaching of persons. This term does not include playgrounds or outdoor sport and recreational areas.

Outdoor play area see the Queensland Development Code.

Note: **Outdoor play area** means an unenclosed area located outside the external walls of the building. This term only includes playgrounds/play areas in a **childcare centre** or **educational establishment**.

Outdoor spaces for passive recreation means private open space, communal open space or public open space.

Retaining structures means retention **structures** and systems such as walls, batters, anchors, bolts, soil nails, shoring, piles, piers, beams and similar **structures**.

Structure means any built structure as well as retaining structures.

State-controlled transport tunnel see schedule 24 of the Planning Regulation 2017 Note: **State-controlled transport tunnel** means a tunnel that forms part of a state transport corridor. See the **DA mapping system**.

State-controlled transport tunnel portal means the entrance to a tunnel.

5.5 Abbreviations

RPEQ – Registered Professional Engineer of Queensland