# State code 5: Development in a statecontrolled tunnel environment

## **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:

- 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 state-controlled transport tunnels and future state-controlled transport tunnels;

## Using this code

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The assessment benchmarks for this code comprise:

- a purpose statement which identifies the overall intent of the code;
- performance outcomes which set benchmarks to achieve the purpose statement of the code;
- acceptable outcomes which identify one way to achieve the relevant performance outcome.

Development complies with the code where:

- it complies with the acceptable outcomes for the performance outcome; or
- it complies with all the performance outcomes, where not complying with the acceptable outcomes; or
- development does not meet relevant performance outcome(s) and SARA determines, on balance, that the development complies with the purpose statement.

This code also includes the glossary of terms for definitions relevant to this code and reference documents which provides direction on how to address this code.

- 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**.

## Performance outcomes and acceptable outcomes

Table 5.1 Development in a state-controlled tunnel environment

Performance outcomes	Acceptable outcomes	
Buildings and structures		
<b>PO1</b> The location of buildings, <b>structures</b> , infrastructure, services and utilities does not cause damage to a <b>state-controlled transport tunnel</b> , or obstruct <b>state-controlled transport tunnel</b> <b>infrastructure</b> .	AO1.1 Buildings, structures, infrastructure, services and utilities are not located on land identified as a state-controlled transport tunnel. AND	
	<b>AO1.2</b> Buildings, <b>structures</b> , infrastructure, services and utilities can be maintained without requiring access to land identified as a <b>state-controlled</b> <b>transport tunnel</b> .	
<b>P02</b> Buildings, <b>structures</b> , infrastructure, services and utilities do not interfere with, or result in damage to, infrastructure or services in a <b>state-controlled</b> <b>transport tunnel</b> .	No acceptable outcome is prescribed.	

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PO3 Buildings, structures, infrastructure, services and utilities do not add or remove loading that will cause damage to a state-controlled transport tunnel or state-controlled transport tunnel or vibration impacts that would cause damage or vibration impacts infrastructure.       No acceptable outcome is prescribed.         PO4 Buildings, structures, infrastructure.       No acceptable outcome is prescribed.         PO5 Buildings, structures, infrastructures do not interfere with, or result in damage to, infrastructure or services in a state-controlled transport tunnel.       No acceptable outcome is prescribed.         PO7 Filling, excavation, building foundations and retaining structures do not undermine or cause subsidence of land for a state-controlled transport tunnel.       No acceptable outcome is prescribed.         PO8 Excavation, boring, piling or fill compaction during construction of a development does not result in ground movement or vibration impacts that would cause damage or nuisance to a state-controlled transport tunnel.       No acceptable outcome is prescribed.         PO9 Development does not involve blasting. PO19 Evelopment does not involve blasting, and retaining structures do not cause ground water disturbance to a state-controlled transport tunnel corridor.       No acceptable outcome is prescribed.         PO11 Fill material from a development site does not result in contamination of a state-controlled transport tunnel corridor.       A012.1 Fill material is free of contaminants including acid sulfate content. A012.2	Performance outcomes	Acceptable outcomes
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wind-blown dust nuisance in a state-controlled transport tunnel.2000 – Methods of testing soils for engineering purposes.		
transport tunnel. purposes.		
AND	transport tunnel.	purposes.
		AND
AO13.2 Dust suppression measures are used during		AO13.2 Dust suppression measures are used during
filling and excavation activities such as wind breaks		
or barriers and dampening of ground surfaces.		or barriers and dampening of ground surfaces.

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Performance outcomes	Acceptable outcomes
P014 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.	
<b>PO16</b> 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	No acceptable outcome is prescribed.
a state-controlled transport tunnel.	
PO19 Development does not obstruct or impede	AO19.1 Development is designed and sited to
existing access to a state-controlled transport	ensure existing authorised access points and access
tunnel.	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	AO20.1 Development does not involve handling or
adjacent to a state-controlled transport tunnel	storage of hazardous chemicals above the threshold
corridor does not adversely impact on the safety or	quantities listed in table 5.2 of Model Planning
operations of a state-controlled transport tunnel.	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	AO21.1 Each dwelling has access to an outdoor
activity located near a state-controlled transport	space for passive recreation which is shielded
tunnel portal minimises air quality impacts from a	from a state-controlled transport tunnel portal by
state-controlled transport tunnel. in outdoor	a building, solid gap-free fence, or other solid gap-
spaces for passive recreation.	free <b>structure</b> .
PO22 Development involving a:	AO22.1 Each outdoor education area and
1. childcare centre; or	outdoor play area is shielded from a state-
2. educational establishment	controlled transport tunnel portal by a building,
located near a state-controlled transport tunnel	solid gap-free fence, or other solid gap-free
portal minimises air quality impacts from a state-	structure.
controlled transport tunnel in outdoor education	
areas and outdoor play areas.	
PO23 Development involving an accommodation	AO23.1 Buildings for an accommodation activity
activity or hospital located near a state-controlled	or <b>hospital</b> are designed to minimise the number of
transport tunnel portal minimises lighting impacts	windows or transparent/translucent panels facing a
from a state-controlled transport tunnel.	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.

State Development Assessment Provisions v3.3

Performance outcomes	Acceptable outcomes
<b>PO24</b> Development does not impede the delivery of a <b>future state-controlled transport tunnel</b> .	AO24.1 Development is not located on land identified as a future state-controlled transport tunnel.
	OR
	<b>AO24.2</b> Development is sited and designed so that permanent buildings, <b>structures</b> , infrastructure, services or utilities are not located on land identified as a <b>future state-controlled transport tunnel</b> .
	OR all of the following acceptable outcomes apply:
	<b>AO24.3 Structures</b> and infrastructure located on land identified as a <b>future state-controlled</b> <b>transport tunnel</b> are able to be readily relocated or removed without materially affecting the viability or functionality of the development.
	AND
	<b>AO24.4</b> Development does not involve filling and excavation of, or material changes to, land identified as a <b>future state-controlled transport tunnel</b> .
	AND
	<b>AO24.5</b> Land is able to be reinstated to the pre- development condition at the completion of the use.
<b>PO25</b> Filling and excavation, building foundations and <b>retaining structures</b> do not obstruct, undermine, or cause subsidence of land for a <b>future</b> <b>state-controlled transport tunnel</b> .	No acceptable outcome is prescribed.
<b>PO26</b> Filling and excavation, building foundations and <b>retaining structures</b> do not cause damage to land for a <b>future state-controlled transport tunnel</b> by adding or removing <b>loading</b> .	No acceptable outcome is prescribed.
<b>PO27</b> Fill material from a development site does not result in contamination of land for a <b>future state-</b>	<b>AO27.1</b> Fill material is free of contaminants including acid sulfate content.
controlled transport tunnel.	AND
	<b>AO27.2</b> Compaction of fill is carried out in accordance with the requirements of AS1289.0 2000 – Methods of testing soils for engineering purposes.
<b>PO28</b> Development does not result in an <b>actionable</b> <b>nuisance</b> or worsening of stormwater, flooding or drainage impacts on land for a <b>future state</b> - <b>controlled transport tunnel</b> .	No acceptable outcome is prescribed.

## Table 5.2 Development impacting on a future state-controlled tunnel environment

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## **Reference documents**

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

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

Department of Transport and Main Roads 2017, <u>SDAP Supporting Information: Filling, excavation and retaining structures in a state-controlled road environment</u>

Department of Transport and Main Roads 2017, <u>SDAP Supporting Information</u>: Stormwater and drainage in a <u>state-controlled road environment</u>

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

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

Department of Transport and Main Roads 2018, Design criteria for bridges and other structures manual

Queensland Rail, Civil Engineering Technical Requirements and standard drawings:

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

<u>Civil-SR-003 – Requirements for work on or near high voltage overhead line equipment and low voltage</u> 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

<u>Civil-SR-016 – Requirements for services under the railway corridor (non-QR services)</u>

Institute of Public Works Engineering Australasia (Queensland Division), <u>Queensland Urban Drainage Manual,</u> <u>Fourth edition, 2016</u>

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

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

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

## **Glossary of Terms**

Accommodation activity means any of the following:

1. caretaker's accommodation

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- 2. community residence
- 3. dual occupancy
- 4. dwelling house
- 5. 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, Institute of Public Works Engineering Australasia (Queensland Division), Fourth edition, 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.

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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.