

9.3.6 Extractive industry code

9.3.6.1 Application

This code applies to assessable development:-

- (a) being a material change of use for extractive industry; and
- (b) identified as requiring assessment against the Extractive industry code by the tables of assessment in **Part 5 (Tables of assessment)**.

9.3.6.2 Purpose and overall outcomes

- (1) The purpose of the Extractive industry code is to ensure that the exploitation of extractive resources is undertaken in a sustainable manner which protects environmental and landscape values, public safety and the amenity of surrounding premises.
- (2) The purpose of the Extractive industry code will be achieved through the following overall outcomes:-
 - (a) exploitation of extractive resources occurs in a sustainable manner;
 - (b) natural values and water quality are protected from any environmental degradation potentially arising from extractive industry operations;
 - (c) extractive industry operations are located, designed and constructed to avoid or effectively mitigate adverse impacts on any sensitive use, in particular residential or rural residential premises;
 - (d) transport routes allow extractive materials to be transported with the least amount of impact on development along those roads and on the function of those roads;
 - (e) land used for extractive industry operations is effectively rehabilitated.

9.3.6.3 Assessment benchmarks

Table 9.3.6.3.1 Assessment benchmarks for assessable development

Performance outcomes		Acceptable outcomes	
<i>Site planning</i>			
PO1	The extractive industry is designed and established so as to provide:- <ul style="list-style-type: none"> (a) adequate separation distance to protect the surrounding area from significant noise, dust, vibration and visual impacts of operations; (b) suitable vehicle access; (c) protection against erosion; (d) acceptable quality of water leaving the site; (e) public safety; (f) acceptable restoration measures; (g) protection of groundwater quality and quantity; (h) avoidance of land contamination; (i) effective stormwater management; and (j) waste management practices which maximise recycling and reuse of 	AO1	No acceptable outcome provided.

Performance outcomes		Acceptable outcomes	
	wastes.		
PO2	Environmental management requirements for the extractive industry are properly identified, and their effective implementation and monitoring appropriately planned to minimise environmental impact. Editor's note—to achieve PO2, the preparation of an Environmental Management Plan is recommended.	AO2	No acceptable outcome provided.
PO3	The extractive industry provides for volumes of extraction to be planned and staged so that a suitable and sustainable landscape form remains on the extraction site.	AO3	No acceptable outcome provided.
Vehicle access and manoeuvring			
PO4	Vehicle access to, from, and within the extractive industry site is provided so as to:- (a) be adequate for the type and volume of traffic to be generated; (b) not create or worsen any traffic hazard; (c) not have adverse effects on the amenity of the locality; and (d) ensure disturbance to surrounding land uses is minor and that impacts from emissions are minimised.	AO4.1 AO4.2 AO4.3	The proposed transport route to and from the site is along sealed roads and does not require heavy vehicles to traverse residential or rural residential streets classified as collector streets or local streets. All driveways, car parking and manoeuvring areas between the site entrance and site offices are sealed. Vehicle access is provided in accordance with the standards specified in the Planning scheme policy for development works.
Separation distances			
PO5	The extractive industry is located on a site which has sufficient area to provide for adequate setback of operations from road frontages, site boundaries, surrounding residential uses and other sensitive receptors such that the extractive industry achieves an acceptable standard of visual amenity and control of noise, light, dust and vibration impacts.	AO5.1 AO5.2 AO5.3 AO5.4	Hard rock extraction and processing activities involving blasting are not carried out within 40m of any boundary of the site or within 1km of any residential premises, land included within a residential zone or the Rural residential zone or other sensitive receptor on surrounding land. Extractive and processing activities not involving blasting are not carried out within 30m of any boundary of the site or within 200m of any residential premises, land included within a residential zone or rural residential zone or other sensitive receptor on surrounding land. Note—a topographic feature providing a natural buffer between extractive and processing activities and a sensitive use may justify provision of a lesser setback distance. A mounded vegetated buffer strip having a minimum width of 10m is provided to all boundaries of the site. Extraction and processing activities are screened from view from any major road and any land included in a residential or rural residential zone.
Noise emissions			
PO6	Noise emissions from the extractive industry, including along transportation routes, is managed to acceptable levels to ensure that there are no significant	AO6.1	For a proposed new extractive industry, noise from the site complies with the 'controlling background creep' criteria for 'noise that varies over time' specified in

Performance outcomes		Acceptable outcomes							
	adverse impacts to any existing or planned sensitive land uses on surrounding premises.	<p>AO6.2</p> <p>AO6.3</p> <p>OR</p>	<p>the <i>Queensland Environmental Protection (Noise) Policy 2008</i>.</p> <p>For a proposed extension to, or intensification of, an existing extractive industry, noise from the proposed extension/intensification does not result in a significant increase in noise levels at premises containing a sensitive land use.</p> <p>Transport of materials associated with the extractive industry does not generate road traffic noise levels that exceed 63 dB(A) L10 (18 hour) or 80 dB(A) L_{max} at residential dwellings on the nominated transportation route.</p> <p>Where existing road traffic noise levels at residential dwellings on the nominated transportation route exceed 63 dB(A) L10 (18 hour) or 80 dB(A) L_{max}, transport of materials associated with the extractive industry does not result in a significant increase in noise levels.</p>						
Site drainage									
PO7	The extractive industry provides on-site drainage that is designed, constructed and maintained so as to:- (a) prevent ponding in excavated areas; (b) avoid erosion; (c) prevent pollution of groundwater and surface water; (d) protect downstream water quality; and (e) provide opportunities to recycle water for reuse in processing, washing and/or screening materials, dust suppression and on product stockpiles, overburden stockpiles, revegetation or rehabilitation areas and wheel wash facilities.	<p>AO7.1</p> <p>AO7.2</p> <p>AO7.3</p> <p>AO7.4</p> <p>AO7.5</p>	<p>Banks and channels are constructed to divert stormwater run-off away from excavated or disturbed areas.</p> <p>Sediment basins are provided to detain stormwater run-off from disturbed areas such that there is no off-site discharge likely to cause environmental harm.</p> <p>Bunding, diversion, containment, treatment, clearing, recycling, collection and disposal of wastes is carried out such that no environmental harm is caused.</p> <p>Lining or other suitable treatment of erosion-prone areas is established and maintained at discharge points.</p> <p>Harvested water is re-used on-site where possible.</p>						
Management of blasting and other operations									
PO8	The extractive industry provides for blasting, crushing, screening and loading to be carried out safely and in accordance with best practice management standards so that disturbance to surrounding land uses is minor and that impacts from emissions are minimised.	AO8.1	<p>Blasting and other operations are confined to the periods identified in Table 9.3.6.3.1A (Extractive industry operations periods).</p> <p>Table 9.3.6.3.1A Extractive industry operation periods</p> <table border="1"> <thead> <tr> <th>Column 1 Extractive industry activity</th> <th>Column 2 Hours of operation</th> </tr> </thead> <tbody> <tr> <td>Blasting operations</td> <td>9am to 5pm Monday to Friday No operations Saturday, Sunday or public holidays</td> </tr> <tr> <td>Other operations</td> <td>6am to 6pm Monday to Friday. 7am to 1pm Saturday No operations Sunday or public holidays.</td> </tr> </tbody> </table>	Column 1 Extractive industry activity	Column 2 Hours of operation	Blasting operations	9am to 5pm Monday to Friday No operations Saturday, Sunday or public holidays	Other operations	6am to 6pm Monday to Friday. 7am to 1pm Saturday No operations Sunday or public holidays.
Column 1 Extractive industry activity	Column 2 Hours of operation								
Blasting operations	9am to 5pm Monday to Friday No operations Saturday, Sunday or public holidays								
Other operations	6am to 6pm Monday to Friday. 7am to 1pm Saturday No operations Sunday or public holidays.								

Performance outcomes		Acceptable outcomes	
			<p>Note—maintenance of plant equipment and vehicles may occur outside of the hours of operation prescribed in the above table provided that there is no disturbance or nuisance to surrounding sensitive land uses.</p> <p>Note—extractive industry operations may only occur outside of the hours of operation specified in the above table provided that it can be demonstrated that the use will achieve Performance outcome PO8.</p> <p>Public signage to warn of operations and safety hazards is provided to all boundaries of the site.</p> <p>Blasting and other operations are undertaken in a manner which complies with best practice approaches to vibration avoidance and management such as those identified in <i>Australian Standard AS2670 Evaluation of human exposure to whole of body vibration, Part 2: continuous and shock induced vibration in buildings (1-80Hz)</i>.</p>
		AO8.2	
		AO8.3	
Public safety			
PO9	Public access to the extractive industry site is effectively managed to discourage unauthorised or accidental public entry.	AO9.1	Safety fencing is provided to prevent unauthorised or accidental public access to the extractive industry site to the greatest extent practicable.
		AO9.2	Public signage to warn of extractive industry operations and safety hazards is provided to all boundaries of the site.
Site rehabilitation			
PO10	Rehabilitation of the extractive industry site provides:- (a) progressive/staged rehabilitation works; (b) appropriate clean-up works (taking particular account of areas of possible soil contamination); (c) agreed landform and soil profiles; (d) suitable revegetation; and (e) establishment phase requirements.	AO10	<p>The extractive industry provides for all rehabilitation works to be undertaken in accordance with an approved expected final landform design and site rehabilitation plan.</p> <p>Editor's note—the Council may require rehabilitation works to be bonded to ensure the effective return of disturbed areas to acceptable land use suitability.</p>