### Extractive industry code

#### Application

This code applies to development identified as requiring assessment against the Extractive industry code by the tables of assessment in **Part 5 (Tables of assessment)**.

#### 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:-
   1. exploitation of extractive resources occurs in an environmentally sound manner;
   2. natural values and water quality are protected from any environmental degradation potentially arising from extractive industry operations;
   3. extractive industry operations are located, designed and constructed to avoid or effectively mitigate adverse impacts on any sensitive land use, particularly residential or rural residential premises;
   4. 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; and
   5. land used for extractive industry operations is effectively rehabilitated.

#### Specific benchmarks for assessment

Benchmarks for assessable development

| **Performance outcomes** | **Acceptable outcomes** | **Compliance / Representations** |
| --- | --- | --- |
| ***Site planning*** | |  |
| **PO1**  The extractive industry is designed and established so as to provide:-   1. adequate separation distance to protect the surrounding area from significant noise, dust, vibration and visual impacts of operations; 2. suitable vehicle access; 3. protection against erosion; 4. acceptable quality of water leaving the site; 5. public safety; 6. acceptable restoration measures; 7. protection of groundwater quality and quantity; 8. avoidance of land contamination; 9. effective stormwater management; and 10. waste management practices which maximise recycling and reuse of wastes. | **AO1**  No acceptable outcome provided.  Editor’s note—in order to demonstrate compliance with Performance Outcome PO1, Council may require submission of an impact assessment report prepared in accordance with the **Planning scheme policy for information Council may request, and preparing well made applications and technical reports**. | Provide a brief description how your proposal complies with the relevant Acceptable outcome (if applicable) or a detailed analysis how compliance is achieved with the Performance outcome. |
| **PO2**  Environmental management requirements for the extractive industry are properly identified, and their effective implementation and monitoring appropriately planned, to minimise environmental impact. | **AO2**  No acceptable outcome provided.  Editor’s note—the Council may require submission of an environmental management plan prepared in accordance with the **Planning scheme policy for information Council may request, and preparing well made applications and technical reports** to demonstrate compliance with Performance Outcome PO2. | Click and provide your representations. |
| **PO3**  The design, operation and staging of the extractive industry:-   1. promotes the efficient utilisation of the resource; 2. ensures that a suitable and sustainable landscape form remains on the extraction site, having regard to its context and setting; and 3. optimises potential alternative land uses after the cessation of the use. | **AO3**  No acceptable outcome provided. | Click and provide your representations. |
| ***Vehicle access and manoeuvring*** | |  |
| **PO4**  Vehicle access to, from, and within the extractive industry site is provided so as to:-   1. be adequate for the type and volume of traffic to be generated; 2. not create or worsen any traffic hazard; 3. not have adverse impacts on the amenity of the locality; and 4. ensure disturbance to surrounding land uses is minor and that impacts from emissions are minimised. | **AO4.1**  The proposed transport route to and from the site is along sealed roads and does not require heavy vehicles to traverse lower order residential or rural residential streets.  **AO4.2**  All driveways, car parking and manoeuvring areas between the site entrance and site offices are sealed.  **AO4.3**  Vehicle access is provided in accordance with the standards specified in the **Planning scheme policy for development works**. | Click and provide your representations. |
| ***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**  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 land use on surrounding land.  **AO5.2**  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 land use on surrounding land.  Note—a topographic feature providing a natural buffer between extractive and processing activities and a sensitive land use may provide justification for a lesser setback distance.  **AO5.3**  A mounded landscape buffer having a minimum width of 10m is provided to all boundaries of the site.  Editor’s note—**section 9.3.2 (Landscaping code)** sets out requirements for landscape buffers.  **AO5.4**  Extraction and processing activities are screened from view from any major road and any land included in a residential zone, centre zone, recreation zone, Community facilities zone, Emerging community zone or the Rural residential zone. | Click and provide your representations. |
| ***Site drainage*** | |  |
| **PO6**  The extractive industry provides on-site drainage that is designed, constructed and maintained so as to:-   1. prevent ponding in excavated areas; 2. minimise erosion; 3. avoid pollution of groundwater and surface water; 4. protect downstream water quality; and 5. provide opportunities to recycle water for beneficial reuse on the site. | **AO6.1**  Banks and channels are constructed to divert stormwater run-off away from disturbed areas.  **AO6.2**  Sediment basins and other suitable runoff controls are provided to detain stormwater run-off from disturbed areas such that there is no off-site discharge likely to cause environmental harm.  **AO6.3**  Bunding, diversion, containment, treatment clearing, recycling, collection and disposal of wastes is carried out such that no environmental harm is caused.  **AO6.4**  Lining or other suitable treatment of erosion-prone areas is established and maintained at discharge points.  **AO6.5**  Harvested water is re-used on the extractive industry site for a range of purposes including, but not limited to, the following:-   1. processing, washing and/or screening materials; 2. dust suppression and for use on product stockpiles and overburden stockpiles; 3. irrigation to revegetation or rehabilitation areas; and 4. wheel wash facilities. | Click and provide your representations. |
| ***Management of blasting and other operations*** | |  |
| **PO7**  The extractive industry provides for blasting, crushing, screening, loading and other operations to be carried out safely and in accordance with best practice management standards so that disturbance to surrounding sensitive land uses is minor and that impacts from emissions are minimised. | **AO7.1**  Blasting, all haulage vehicle movements and other operations associated with the extractive industry are confined to the hours of operation identified in **Table 9.2.7.3.1A (Extractive industry hours of operation)**.  Table 9.2.7.3.1A Extractive industry hours of operation   | Column 1  Extractive industry activity | Column 2  Hours of operation | | --- | --- | | Blasting operations | 9am to 5pm Monday to Friday.  No operations occur on Saturday, Sunday or on public holidays. | | Extraction, haulage, crushing, screening, loading, operation of plant equipment, ancillary activities | 6am to 6pm Monday to Saturday.  No operations occur on Sunday or on public holidays. |   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.  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 PO7.  **AO7.2**  Vibration levels do not exceed the relevant provisions contained in the *Environmental Protection Act 1994*. | Click and provide your representations. |
| ***Noise emissions*** | |  |
| **PO8**  Noise emissions from the extractive industry, including along transportation routes, is managed to acceptable levels to ensure that there are no significant adverse impacts to any existing or planned sensitive land uses on surrounding premises. | **AO8.1**  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 the *Queensland Environmental Protection (Noise) Policy 2008*.  **AO8.2**  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.  **AO8.3**  All haulage vehicle movements associated with the extractive industry do not generate road traffic noise levels that exceed 63 dB(A) L10 (18 hour) or 80 dB(A) LAmax at residential dwellings on the nominated transportation route.  **OR**  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) LAmax, haulage vehicle movements associated with the extractive industry do not result in a significant increase in noise levels. | Click and provide your representations. |
| ***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. | Click and provide your representations. |
| ***Hazardous materials*** | |  |
| **PO10**  Development is appropriately designed and managed to minimise the risk and impact of any accidental spills and/or releases of fuels, chemicals and other hazardous materials that may contaminate soil, stormwater, groundwater and/or air. | **AO10**  Storage of fuels and chemicals on-site is undertaken in accordance with *Australian Standard AS1940 – Storage and Handling of Flammable and Combustible Liquids*. | Click and provide your representations. |
| ***Site rehabilitation*** | |  |
| **PO11**  Rehabilitation of the site, both during the operating life of the extractive industry and at its cessation:-   1. provides for progressive/staged rehabilitation works; 2. includes appropriate clean-up works (taking particular account of areas of possible soil or water contamination); 3. results in a stable and appropriate final landform; 4. provides suitable drainage and hydraulic conditions; and 5. achieves a suitable degree of revegetation consistent with potential post-extraction land uses. | **AO11**  No acceptable outcome provided.  Editor’s note—the Council may require submission of a final landform design and site rehabilitation plan prepared in accordance with the **Planning scheme policy for information Council may request, and preparing well made applications and technical reports** to demonstrate compliance with Performance Outcome PO11.  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. | Click and provide your representations. |
| **PO12**  Rehabilitation allows for suitable use of any water bodies created through the extraction process, having regard to water quality, hydraulic conditions, land form and vegetation. | **AO12.1**  Rehabilitation is carried out to provide water quality of a standard that can support aquatic vertebrates and invertebrates.  **AO12.2**  Fringes of water bodies are planted with wetland species such that a sustainable aquatic plant community is established. | Click and provide your representations. |