Department of Environment and Heritage Protection

Permit[1]

Environmental Protection Act 1994

Environmental authority

This environmental authority is issued by the administering authority under Chapter 5 of the Environmental Protection Act 1994.

Permit[1] number: EPPR02351514

Environmental authority takes effect from the date of grant of the development approval.

The first annual fee is payable within 20 business days of the effective date.

The anniversary date of this environmental authority is the same day each year as the effective date.

Environmental authority holder(s)

Name	Registered address
Isaac Regional Council	PO Box 97 MORANBAH QLD 4744

Environmentally relevant activity and location details

Environmentally relevant activity(ies)	Location(s)
16-(2b) Extractive >100000t but <1000000t yr 16-(3b) Screening >100000t but <1000000t yr	Elgin Road, Clermont - Lot 656 Plan SP138788 (North Back Creek Quarry)

Additional information for applicants

Environmentally relevant activities

The description of any environmentally relevant activity (ERA) for which an environmental authority is issued is a restatement of the ERA as defined by legislation at the time the approval is issued. Where there is any inconsistency between that description of an ERA and the conditions stated by an environmental authority as to the scale, intensity or manner of carrying out an ERA, then the conditions prevail to the extent of the inconsistency.

An environmental authority authorises the carrying out of an ERA and does not authorise any environmental harm unless a condition stated by the authority specifically authorises environmental harm.

A person carrying out an ERA must also be a registered suitable operator under the *Environmental Protection Act 1994* (EP Act).

[1] Permit includes licences, approvals, permits, authorisations, certificates, sanctions or equivalent/similar as required by legislation

Contaminated land

It is a requirement of the EP Act that if an owner or occupier of land becomes aware a notifiable activity (as defined in Schedule 3 and Schedule 4) is being carried out on the land, or that the land has been, or is being, contaminated by a hazardous contaminant, the owner or occupier must, within 22 business days after becoming so aware, give written notice to the chief executive.

CMooney	11/12/14
Signature	Date

Christine Mooney
Department of Environment and Heritage Protection
Delegate of the administering authority
Environmental Protection Act 1994

Enquiries:
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Obligations under the *Environmental Protection Act 1994*

In addition to the requirements found in the conditions of this environmental authority, the holder must also meet their obligations under the EP Act, and the regulations made under the EP Act. For example, the holder must comply with the following provisions of the Act:

- general environmental duty (section 319)
- duty to notify environmental harm (section 320-320G)
- offence of causing serious or material environmental harm (sections 437-439)
- offence of causing environmental nuisance (section 440)
- offence of depositing prescribed water contaminants in waters and related matters (section 440ZG)
- offence to place contaminant where environmental harm or nuisance may be caused (section 443)

Conditions of environmental authority

Agency interest: General	
Condition number	**Condition**
G1	The **activity** conducted under this environmental authority must not be conducted contrary to the following limitation: The **activity** is only to be conducted within the area delineated as the operational site boundary in **Attachment 1** being Figure 3.2 from the *North Back Creek Quarry* report, CDM Smith Australia Pty Ltd, 21 February 2014.
G2	All reasonable and practical measures must be taken to minimise the likelihood of **environmental harm** being caused.
G3	Any breach of a condition of this environmental authority must be reported to the **administering authority** as soon as practicable, or at most, within 24 hours of **you** becoming aware of the breach. Records must be kept including full details of the breach and any subsequent actions undertaken.
G4	Other than as permitted by this environmental authority, the release of a **contaminant(s)** into the environment must not occur.
G5	All information and records that are required by the conditions of this environmental authority must be kept for a minimum of 5 years. Environmental monitoring results must be kept until surrender of this environmental authority. All information and records required by the conditions of this environmental authority must be provided to the **administering authority** upon request.
G6	An **appropriately qualified person(s)** must monitor, record and interpret all parameters that are required to be monitored by this environmental authority and in the manner specified by this environmental authority.
G7	All analyses required under this environmental authority must be carried out by a laboratory that has **NATA** certification, or an equivalent certification, for such analyses.

G8	When required by the **administering authority**, monitoring must be undertaken in the manner prescribed by the **administering authority**, to investigate a complaint that is not considered by the **administering authority** to be frivolous or vexatious, of **environmental nuisance** arising from the **activity**. The monitoring results must be provided to the **administering authority** upon request.
G9	The activity must be undertaken in accordance with written procedures that: 1. identify potential risks to the environment from the activity during routine operations, closure and an emergency. 2. establish and maintain control **measures** that **minimise** the potential for **environmental harm.** 3. ensure plant, equipment and **measures** are maintained in a proper and effective condition. 4. ensure plant, equipment and **measures** are operated in a proper and effective manner. 5. ensure that staff are trained and aware of their obligations under the *Environmental Protection Act 1994.* 6. ensure that reviews of environmental performance are undertaken at least annually.

Agency interest: Air

Condition number	**Condition**
A1	Odours or airborne **contaminants** which are **noxious** or **offensive** or otherwise unreasonably disruptive to public amenity or safety must not cause nuisance to any **sensitive place** or **commercial place.**

Agency interest: Noise

Condition number	**Condition**
N1	The activity must not cause **audible noise** (a) on a business day or Saturday, before 7.00am or after 7.00pm (b) on any other day, before 8.00am or after 7.00pm at any of the following places: • a dwelling, mobile home or caravan park, residential marina, motel, hotel or hostel or other residential premises • a kindergarten, school, university, library, childcare centre or other educational institution • a medical centre or hospital.

<table>
<tr><td>N2</td><td>Blasting activities must not exceed the limits for peak particle velocity and air blast overpressure in Table 1 – blasting noise limits when measured at any sensitive place in accordance with the associated monitoring requirements.

Table 1 —Blasting noise limits
<table>
<tr><th>Blasting criteria</th><th>Blasting limits</th></tr>
<tr><td>Airblast overpressure</td><td>115 dB (Linear) Peak for 9 out of 10 consecutive blasts initiated and not greater than 120 dB (Linear) Peak at any time.</td></tr>
<tr><td>Ground vibration peak particle velocity</td><td>5mm/second peak particle velocity for 9 out of 10 consecutive blasts and not greater than 10 mm/second peak particle velocity at any time.</td></tr>
</table>
Associated monitoring requirements
1. Monitoring must be in accordance with the most recent editions of the administering authority's 'Noise and Vibration from Blasting' guideline and Noise Measurement Manual and any relevant Australian standard.
2. All monitoring devices must be correctly calibrated and maintained.</td></tr>
<tr><td>N3</td><td>Blasting must be carried out in accordance with the current edition of the administering authority's 'Noise and vibration from blasting guideline' and with Australian Standard 2187.</td></tr>
<tr><td>N4</td><td>Unless prior approval is obtained from the administering authority:
1. blasting is only permitted during the hours of 9am to 3pm Monday to Friday, and from 9am to 1pm on Saturdays.
2. blasting is not permitted at any time on Sundays or public holidays</td></tr>
<tr><td>N5</td><td>When required by the administering authority, a blast monitoring program must be developed and implemented to monitor compliance with Table 1 – blasting noise limits at any sensitive place or commercial place.</td></tr>
<tr><td colspan="2">Agency interest: Water</td></tr>
<tr><td>Condition number</td><td>Condition</td></tr>
<tr><td>WT1</td><td>Any release to waters must not:
1. have any other properties at a concentration that is capable of causing environmental harm
2. produce any slick or other visible evidence of oil or grease, nor contain visible floating oil, grease, scum, litter or other visually objectionable matter.</td></tr>
<tr><td>WT2</td><td>Ponds used for the storage or treatment of aqueous waste must be constructed, installed and maintained to:
a) Prevent any release of aqueous waste from the ponds other than as authorised under this approval
b) Ensure the stability of the pond structure.</td></tr>
<tr><td>WT3</td><td>Erosion and sediment control measures must be implemented and maintained to minimise erosion and the release of sediment.</td></tr>
<tr><td>WT4</td><td>The stormwater runoff from the facility generated by a 24 hour storm event with an average recurrence interval of one in five years must be retained on site and treated to remove contaminants before release.</td></tr>
</table>

Agency interest: Land	
Condition number	**Condition**
L1	Treatment and management of acid sulfate soils must comply with the current edition of the *Queensland Acid Sulfate Soil Technical Manual.*
L2	Land that has been disturbed for the **activity** conducted under this environmental authority must be rehabilitated in a manner such that: 1. suitable native species of vegetation for the location are established and sustained for earthen surfaces 2. potential for erosion is **minimised** 3. the quality of water, including seepage, released from the site does not cause **environmental harm** 4. potential for **environmental nuisance** caused by dust is **minimised** 5. the water quality of any residual water body does not have potential to cause **environmental harm** 6. the final landform is stable and protects public safety.
L3	Rehabilitation of disturbed areas required under condition L2, must take place progressively as works are staged and new areas of extraction are commenced.
Agency interest: Waste	
Condition number	**Condition**
WS1	All waste generated in carrying out the **activity** must be reused, recycled or lawfully disposed of offsite.

Definitions

Key terms and/or phrases used in this document are defined in this section and **bolded** throughout this document. Applicants should note that where a term is not defined, the definition in the *Environmental Protection Act 1994*, its regulations or environmental protection policies must be used. If a word remains undefined it has its ordinary meaning.

'activity' means the environmentally relevant activity, whether a resource activity or prescribed activity, to which the environmental authority relates.

'administering authority' means the Department of Environment and Heritage Protection or its successor or predecessors.

'airblast overpressure' means energy transmitted from the blast site within the atmosphere in the form of pressure waves. The maximum excess pressure in this wave, above ambient pressure is the peak airblast overpressure measured in decibels linear (dBL).

'appropriately qualified person(s)' means a person or persons who has professional qualifications, training, skills or experience relevant to the nominated subject matter and can give authoritative assessment, advice and analysis to performance relative to the subject matter using the relevant protocols, standards, methods or literature.

'audible noise' means noise that can be clearly heard by an individual who is an occupier at a place listed in condition N1.

'background' means noise, measured in the absence of the noise under investigation, as L A90,T being the A-weighted sound pressure level exceeded for 90 per cent of the time period of not less than 15 minutes, using Fast response.

'blasting' is the use of explosives to fracture:
- rock, coal and other minerals for later recovery; or
- structural components or other items to facilitate removal from a site or for reuse.

'commercial place' means a place used as a workplace, an office or for business or commercial purposes and includes a place within the curtilage of such a place reasonably used by persons at that place.

'contaminant(s)' as defined in Section 11 of the *Environmental Protection Act 1994*.

'environmental harm' as defined in Section 14 of the *Environmental Protection Act 1994*.

'environmental nuisance' as defined in Section 15 of the *Environmental Protection Act 1994*.

'facility' means the area used for carrying out the ERA including buildings, disturbed areas or any associated infrastructure.

'measures' has the broadest interpretation and includes plant, equipment, physical objects, bunding, containment systems, monitoring, procedures, actions, directions and competency.

'minimise' means minimise by taking all reasonable and practical measures to minimise the adverse effect

having regard to the following matters:
• the nature of the harm or potential harm
• the sensitivity of the **receiving environment**
• the current state of technical knowledge of the activity
• the likelihood of successful application of different measures that might be taken to minimise the adverse effects
• the financial implications of the different measures as they would relate to the type of activity
• if the adverse effect is caused by the location of the activity being carried out, whether it is feasible to carry out the activity at another location.

'NATA' means National Association of Testing Authorities.

'noxious' means harmful or injurious to health or physical well-being.

'offensive' means causing offence or displeasure; is unreasonably disagreeable to the sense; disgusting, nauseous or repulsive.

'peak particle velocity (ppv)' means a measure of ground vibration magnitude which is the maximum rate of change of ground displacement with time, usually measured in millimetres/second (mm/s).

'receiving environment' in relation to an activity that causes or may cause **environmental harm**, means the part of the environment to which the harm is, or may be, caused. The receiving environment includes (but is not limited to):
(a) a watercourse; and
(b) groundwater.

'sensitive place' includes:
• a dwelling, residential allotment, mobile home or caravan park, residential premises.
• a motel, hotel or hostel.
• a kindergarten, school, university or other educational institution.
• a medical centre or hospital.
• a protected area under the *Nature Conservation Act 1992*
• a public thoroughfare, park or gardens.
• for noise, a place defined as a sensitive receptor for the purposes of the *Environmental Protection (Noise) Policy 2008.*
• a workplace used as an office or for business or commercial purposes, which is not part of the project activities and does not include employee accommodation, grazing and farmland, unoccupied buildings or public roads.

'24 hour storm event with an average recurrence interval of 1 in 5 years' means the maximum rainfall depth from a 24 hour duration precipitation event with an average recurrence interval of once in 5 years. *For example, an Intensity-Frequency-Duration table for a 24 hour duration event with an average recurrence interval of 1 in 5 years, identifies a rainfall intensity of 7.09mm/hour. The rainfall depth for this event is therefore 24 hour x 7.09mm/hour = 170.16mm.*

'vibration' is the oscillating or periodic motion of a particle, group of particles, or solid object about its equilibrium position.

'watercourse' as defined in Section 8, Schedule 12 of the *Environmental Protection Regulation 2008*.

'waters' includes river, stream, lake, lagoon, pond, swamp, wetland, unconfined surface water, unconfined water, natural or artificial **watercourse**, bed and bank of any waters, dams, non-tidal or tidal waters (including the sea), stormwater channel, stormwater drain, roadside gutter, stormwater run-off, and groundwater and any part thereof.

'wetland' as defined in Schedule 12 of the *Environmental Protection Regulation 2008*, means an area shown as a wetland on the map of referable wetlands.

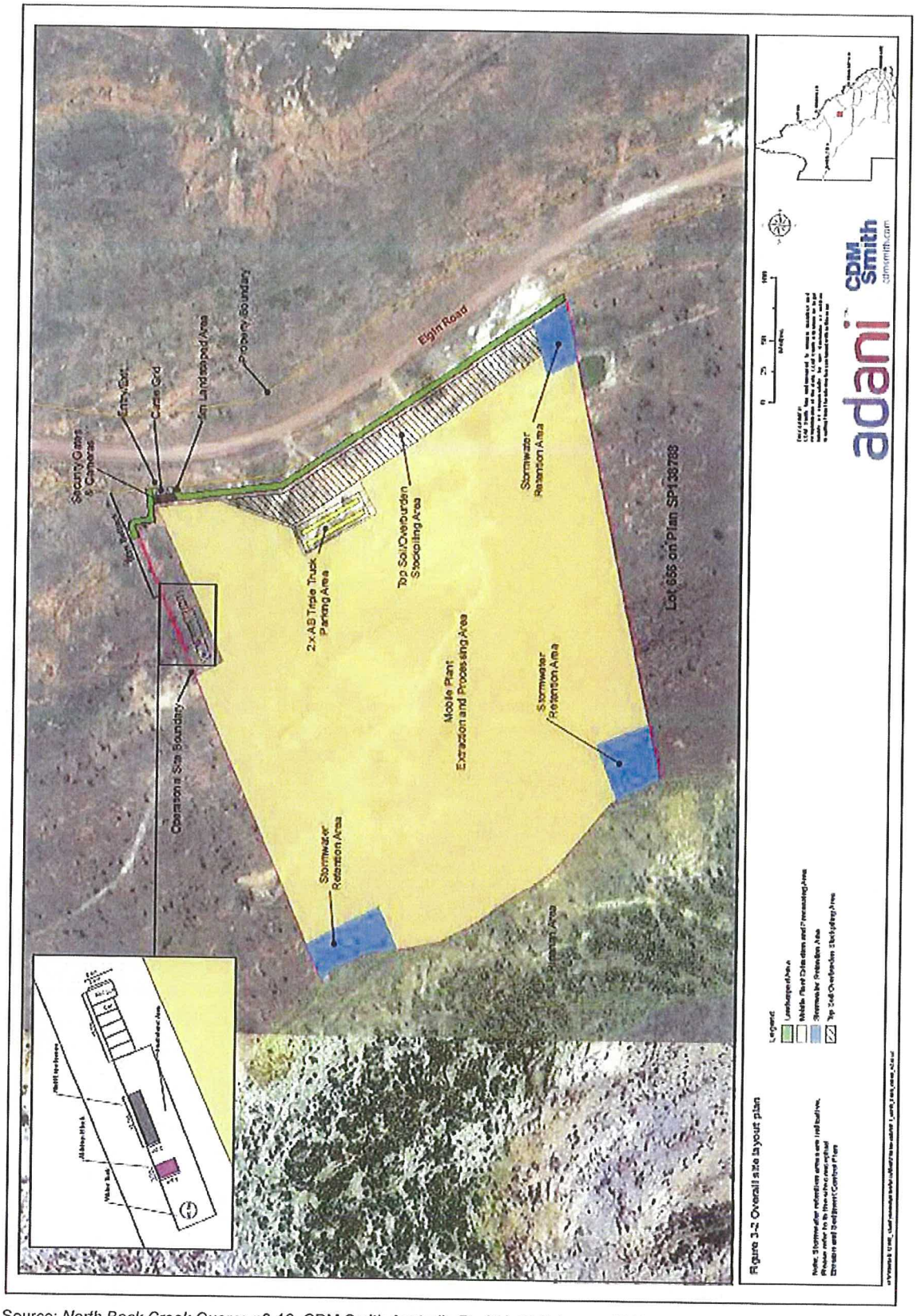
'you' means the holder of the environmental authority.

END OF PERMIT

Attachments

Attachment 1 – Operational Site Boundary

Attachment 1 – Operational Site Boundary



Source: *North Back Creek Quarry*, p3-16, CDM Smith Australia Pty Ltd, 21 February 2014