Permit

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: EPPR00443813

Environmental authority takes effect on 15 June 2016.

The anniversary date of this environmental authority is 1 March each year. An annual return and the payment of the annual fee will be due each year on this day.

Environmental authority holder(s)

Name	Registered address
Quarry Products Pty. Ltd.	Munro Street HARLAXTON QLD 4350

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 19-Metal forming >10000t yr	Munro Street, HARLAXTON QLD 4350 - Lot 22 Plan D10119, Lot 78 Plan RP17514, Lot 79 Plan RP17514, Lot 83 Plan RP17514, Lot 86 Plan RP17514, Lot 87 Plan RP17514, Lot 23 Plan D10119, Lot 81 Plan RP17514, Lot 293 Plan CC1475, Lot 21 Plan D10119, Lot 294 Plan CC1475, Lot 2 Plan RP844703, Lot 76 Plan RP17514, Lot 85 Plan RP17514, Lot 88 Plan RP17514, Lot 374 Plan SP272172, Lot 1 Plan RP85657, Lot 918 Plan RP844703, Lot 80 Plan RP17514, Lot 82 Plan RP17514, Lot 75 Plan RP17514, Lot 77 Plan RP17514 and Lot 84 Plan RP17514

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).

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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.

Signature	15 June 2016
	Date

Tariq Khan
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
The environmentally relevant activity(ies) conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

Agency interest: General	
Condition number	**Condition**
G1	**Activities** conducted under this environmental authority must be conducted in accordance with the following limitation: 1. The activities (extractive and screening activities) must not exceed a 1,000,000t in a year.
G2	All reasonable and practicable 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	Within 10 business days following the initial notification unless a longer time is agreed to by the administering authority, a written report must be provided to the administering authority, including the following: a) Full details of the breach; and b) Any subsequent actions to prevent a recurrence of the breach; and c) Outcomes of actions taken at the time to prevent or minimise environmental harm and/or environmental nuisance.
G5	Other than as permitted by this environmental authority, the **release of a contaminant into the environment** must not occur.
G6	All information and records that are required by the conditions of this environmental authority must be kept for a minimum of five (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.
G7	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.
G8	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. The only exception to this condition is for *in situ* monitoring of pH.
G9	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.

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G10	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.
G11	Chemicals and fuels in containers of greater than 200 litres must be stored within a **secondary containment system.**
Agency interest: Air	
Condition number	**Condition**
A1	Other than as permitted within this **environmental authority**, 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**.
A2	Dust and particulate matter emissions must not exceed the following concentrations at any **sensitive place** or **commercial place**: a) dust deposition of 120 milligrams per square metre per day, when monitored in accordance with Australian Standard AS 3580.10.1 (or more recent editions).
A3	Dust monitoring must be undertaken in accordance with Table 1: Dust Monitoring Requirements. **Table 1:** Dust Monitoring Requirements

Determination Required	Concurrent Monitoring Locations[1]	Frequency
Dust Deposition	ML1 - 10 Munro Street ML2 - 5a Prince Street Harlaxton ML3 - 4 Gregory St, Harlaxton ML4 - 13a Mabel Street, Harlaxton	Monthly for a two year period. After two years, the holder may apply to reduce the monitoring frequency where compliance with the dust deposition limits is demonstrated.
	Another site relevant to investigating a complaint agreed to by the administering authority (see note 2)	Three consecutive months

1 – If it is not possible to monitoring at these locations alternate locations must be agreed to by the administering authority.
2 – This additional site dust deposition monitoring applies if advised in writing by the administering authority to investigate a complaint of dust nuisance allegedly caused by the activity that is not considered by the administering authority to be frivolous, vexatious, where an existing monitoring site is inadequate to investigate the complaint.

A4	Additional information including production rate, operational hours of crushing and screening equipment and quantity of material processed must also be recorded during the monitoring period.

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A5	The dust monitoring must be carried out: a) in accordance with the latest edition of the administering authority's Air Quality Sampling Manual. b) in conjunction with the recording of precipitation, wind speed and direction in accordance with the requirements of Australian Standard AS3580.14 - 2011, 'Methods for sampling and analysis of ambient air. Part 14: Meteorological monitoring for ambient air quality applications;
A6	A dust monitoring report must be submitted six monthy addressing the periods October to March and April to September to the administering authority including: a) the monitoring results for dust deposition, precipitation, wind speed and direction; b) an assessment of compliance against the dust deposition limit c) qualitative assessment of any material impact of weather on the dust deposition results, for example, any extreme weather events or dust storms d) implications drawn for dust management actions; and e) details of any dust compliant investigations.
A7	The *'Harlaxton Quarry, Dust Management Plan Prepared for Quarry Products Pty Ltd, July 2014 Final (Version 1.1)'* must be implemented and any amendments must be submitted to the administering authority for approval.
A8	If monitoring required by condition A3 indicates that the dust deposition limit of not more than 120 milligrams per square metre per day is not being complied with, action must be taken to address the complaint including the use of appropriate dispute resolution if required and implementing dust abatement measures so that emissions of dust from the activity do not result in further environmental nuisance or breach the limit.

Agency interest: Water

Condition number	**Condition**
WT1	The only contaminants to be released to surface **waters** are settled treated stormwater runoff waters from areas of the site not likely to be contaminated with waste materials to surface waters in accordance with *Table 3—Surface water release limits* and the associated monitoring requirements.

Table 3 – Surface water release limits

Monitoring Point Description	Quality Characteristics	Release Limit	Limit Type	Frequency
Any stormwater release to the environment	pH	6.5 – 9.0	Range	Once during each release event
	Suspended Solids	<10% *	Maximum	
	Total Dissolved Solids (Salinity)	1000 mg/L	Maximum	

* Less than 10% change of seasonal mean concentration of surface water

Associated monitoring requirements

1. Monitoring location and release points/areas must be in accordance with any Stormwater and/or Sediment and Erosion Control Plan for the site.
2. Monitoring must be in accordance with the methods prescribed in the current edition of the Department of Environment and Heritage Protection *Water Quality Sampling Manual.*
3. Samples must be taken using representative samples.
4. All determinations must employ analytical practical quantification limits sufficiently low enough to enable comparisons to be made against water quality objectives/limits relevant to the particular water quality characteristic.
5. Monitoring must be undertaken during a release as per the frequency stated.
6. All monitoring devices must be correctly calibrated and maintained.

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WT2	Monitoring of contaminant releases to **waters** must be undertaken in accordance with condition WT1 and records of the results must be kept.
WT3	In addition to WT1, the 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.
WT4	The stormwater runoff from disturbed areas, generated by (up to and including) a **24 hour storm event with an average recurrence interval of 1 in 5 years** must be retained on site or managed to remove contaminants before release.
Agency interest: Noise	
Condition number	**Condition**
N1	Other than permitted by condition N6, noise generated by the **activity** must not cause **environmental nuisance** to any **sensitive place.**
N2	A noise management plan must be designed by **appropriately qualified persons** and implemented to manage the effects of the **activity** on a **sensitive place**.
N3	Noise from the **activity** is not considered an **environmental nuisance** if the levels identified in *Table 4 - Noise limits* are not exceeded, when measured in accordance with associated monitoring requirements. **Table 4—Noise limits**

Noise level measured in dB(A)	Monday to Saturday			Sunday and Public Holidays		
	7am – 6pm	6pm – 10pm	10pm – 7am	9am – 6pm	6pm – 10pm	10pm – 9am
	Noise measured at the nearest sensitive place					
$L_{Aeq,adj,1hr}$	50	40	35	45	40	35
max $L_{pA,\ 15\ min}$	N/A	49	49	N/A	49	49

Associated monitoring requirements
1. All monitoring devices must be correctly calibrated and maintained.
2. Any monitoring must be in accordance with the most recent version of the **administering authority's** Noise Measurement Manual.
3. Any monitoring of noise emissions from the **activity** must be undertaken when the **activity** is in operation.
4. max $L_{pA,\ 15\ min}$ measured as component level

N4	When required by the **administering authority**, noise monitoring must be undertaken in accordance with the associated monitoring requirements of *Table 4—Noise Limits*, and the results notified within 14 days to the **administering authority**. Monitoring must include: 1. $L_{Aeq,adj,1hr}$ 2. **Background** noise (Background) as $L_{A\ 90,\ adj,\ T}$ 3. Max$L_{pA,\ 15\ min}$ 4. the level and frequency of occurrence of any impulsive or tonal noise 5. atmospheric conditions including wind speed and direction 6. effects due to extraneous factors such as traffic noise 7. location, date and time of recording.
N5	A Blast Management Plan must be developed in accordance with Australian Standard 2187 by a suitably qualified person prior to each planned blasting activity.

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<table>
<tr><td>N6</td><td>Blasting activities must not exceed the limits for peak particle velocity and air blast overpressure in Table 5—Blasting noise limits when measured at any sensitive place in accordance with the associated monitoring requirements.

Table 5—Blasting noise limits
<table>
<tr><th>Blasting Criteria</th><th>Blasting Limits</th><th>Monitoring Frequency</th></tr>
<tr><td>Airblast Overpressure</td><td>115 dB (Linear) Peak for more than 1 blast out of any 5 consecutive blasts</td><td rowspan="3">Each blast</td></tr>
<tr><td rowspan="2">Ground vibration peak particle velocity</td><td>For vibrations more than 35 hertz, peak particle velocity of 25 millimetres per second.</td></tr>
<tr><td>For vibrations less than 35 hertz, peak particle velocity of 10 millimetres per second.</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.
3. Monitoring locations must be on Lot 58 on Plan RP17732 and adjacent to Lot 73 on Plan RP17514or alternate locations agreed to by the administering authority.</td></tr>
<tr><td>N7</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>N8</td><td>When required by the administering authority, a blast monitoring program must be developed and implemented to monitor compliance with Table 5—Blasting noise limits at any sensitive place.</td></tr>
<tr><td colspan="2">Agency interest: Land</td></tr>
<tr><td>Condition number</td><td>Condition</td></tr>
<tr><td>L1</td><td>Completed areas must be rehabilitated by landscaping or revegetating as soon as practicable and to the satisfaction of the administering authority.</td></tr>
<tr><td colspan="2">Agency interest: Waste</td></tr>
<tr><td>Condition number</td><td>Condition</td></tr>
<tr><td>W1</td><td>All waste generated in carrying out the activity must be reused, recycled or removed to a facility that can lawfully accept the waste.</td></tr>
</table>

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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 activities, whether resource activities or prescribed activities, to which the environmental authority relates.
Administering authority means the Department of Environment and Heritage Protection or its successor or predecessors.
Airblast overpressure is the energy transmitted from the blast site within the atmosphere in the form of pressure waves. As these waves pass a given position, the pressure of the air rises very rapidly then falls more slowly then returns to the ambient value after a number of oscillations. The pressure wave consists of both audible (noise) and inaudible (concussion) energy. The maximum excess pressure in this wave is known as the peak air overpressure, generally measured in decibels using the linear frequency-weighting.
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.
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.
Environmental nuisance as defined in Chapter 1 of the Environmental Protection Act 1994.
$L_{A10,adj,1hr}$ means the A-weighted sound pressure level, adjusted for tonal character or impulsiveness, that is exceeded for 10% of a 1 hour period when measured using time-weighting 'F'.
$L_{Aeq\ adj,T}$ means the adjusted A weighted equivalent continuous sound pressure level measures on fast response, adjusted for tonality and impulsiveness, during the time period T, where T is measured for a period no less than 15 minutes when the activity is causing a steady state noise, and no shorter than one hour when the approved activity is causing an intermittent noise.
Max$L_{pA,T}$ means the maximum A-weighted sound pressure level measured over a time period T of not less than 15 minutes, using Fast response.
Measures has the broadest interpretation and includes plant, equipment, physical objects, bunding, containment systems, monitoring, procedures, actions, directions and competency.
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.
Prescribed contaminants means contaminants listed within Schedule 9 of the Environmental Protection Regulation 2008.
Records include breach notifications, written procedures, analysis results, monitoring reports and monitoring programs required under a condition of this authority.
Release of a contaminant into the environment means to:
• deposit, discharge, emit or disturb the contaminant
• cause or allow the contaminant to be deposited, discharged, emitted or disturbed
• fail to prevent the contaminant from being deposited, discharged emitted or disturbed
• allow the contaminant to escape
• fail to prevent the contaminant from escaping.
Secondary containment system means a system designed, installed and operated to prevent any release of contaminants from the system, or containers within the system, to land, groundwater, or surface waters.
Sensitive place includes the following and includes a place within the curtilage of such a place reasonably used by persons at that place:

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• a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises; or
• a motel, hotel or hostel; or
• a kindergarten, school, university or other educational institution; or
• a medical centre or hospital; or
• a protected area under the *Nature Conservation Act 1992*, the *Marine Parks Act 1992* or a World Heritage Area; or
• a public thoroughfare, park or gardens; or
• for noise, a place defined as a sensitive receptor for the purposes of the Environmental Protection (Noise) Policy 2008.

Substantial low frequency noise means a noise emission that has an unbalanced frequency spectrum shown in a one-third octave band measurement, with a predominant component within the frequency range 10 to 200Hz. It includes any noise emission likely to cause an overall sound pressure level at a sensitive place exceeding 55dB(Z).

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.

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.

You means the holder of the environmental authority.

END OF PERMIT

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