

Environmental authority – EPPR00394713

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

Permit¹ number: EPPR00394713

Environmental authority takes effect on 5-OCT-2016.

The anniversary date of this environmental authority remains the same (1 August). An annual return and the payment of the annual fee will be due each year on this day.

Environmental authority holder(s)

Name	Principal address
Neilsens Quality Gravels Pty. Ltd.	Affinity Partners PTY LTD 28 Brookes Street BOWEN HILLS QLD 4006

Environmentally relevant activity and location details

Environmentally relevant activity(ies)	Location(s)
16-(2c) Extracting, other than by dredging, in a year, the following quantity of material — more than 1,000,000t 16-(3c) Screening, in a year, the following quantity of material — more than 1,000,000t	121 Hill End Road, CRYNA - Lot 2 Plan RP853413 and Lot 1 Plan RP853413 430-468 Cryna Rd, CRYNA - Lot 2 Plan RP869238, Lot 2 Plan RP92834 and Lot 63 Plan WD431

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.

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

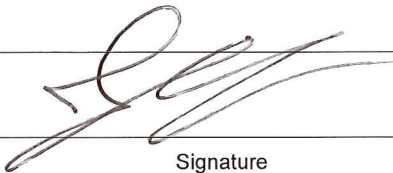
A person carrying out an ERA must also be a registered suitable operator under the *Environmental Protection Act 1994* (EP Act).

Contaminated land

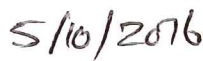
It is a requirement of the EP Act that an owner or occupier of land give written notice to the chief executive if they become aware of the following:

- a notifiable activity (as defined in Schedule 3) that is being, or has been, carried out on the land (notice must be given within 20 business days)
- an event involving a hazardous contaminant on the land, or a change in the condition of the contaminated land, that is causing, or is reasonably likely to cause, serious or material environmental harm (notice must be given within 24 hours).

For further information, including the form for giving written notice, refer to the Queensland Government website <http://www.qld.gov.au/> (using the search term 'managing contaminated land').


Signature

Tariq Khan
Department of Environment and Heritage Protection
Delegate of the administering authority
Environmental Protection Act 1994


Date

Enquiries:
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Protection
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palm@ehp.qld.gov.au

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)

The environmentally relevant activities 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	All reasonable and practicable measures must be taken to minimise the likelihood of environmental harm being caused.
G2	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.
G3	Other than as permitted by this environmental authority, the release of a contaminant into the environment must not occur.
G4	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.
G5	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.
G6	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.
G7	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.



G8	The activities must be undertaken in accordance with written procedures that: 1. identify potential risks to the environment from the activities during routine operations, closure and an emergency; and 2. establish and maintain control measures that minimise the potential for environmental harm; and 3. ensure plant, equipment and measures are maintained in a proper and effective condition; and 4. ensure plant, equipment and measures are operated in a proper and effective manner; and 5. ensure that staff are trained and aware of their obligations under the <i>Environmental Protection Act 1994</i>; and 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 .																		
A2	The release of dust and/or particulate matter resulting from the authorised activities to which this approval relates must not cause an environmental nuisance at any nuisance sensitive or commercial place. An environmental nuisance caused by dust and/or particulate matter includes a release to a nuisance sensitive place that exceeds either of the following limits at that place: (a) dust deposition of 120 milligrams per square metre per day, when monitored in accordance with <i>Australian Standard AS 3580.10 Methods for sampling and analysis of ambient air — Determination of particulate matter— Deposited matter— Gravimetric method</i>; or (b) a concentration of particulate matter with an aerodynamic diameter of less than 10 micrometre (µm) (PM10) suspended in the atmosphere of 150 micrograms per cubic metre over a 24-hour averaging time, at a nuisance sensitive place downwind of the approved place, when monitored in accordance with: (i) Australian Standard AS 3580.9.6 Ambient air - Particulate matter - Determination of suspended particulate PM10 high-volume sampler with size-selective inlet - Gravimetric method; or (ii) any alternative method of monitoring PM10 which may be permitted by the latest edition of the administering authority's <i>Air Quality Sampling Manual</i>.																		
Agency interest: Noise																			
Condition number	Condition																		
N1	Noise from the activities must not exceed the levels identified in Table 1—Noise limits when measured in accordance with the associated monitoring requirements. Table 1—Noise limits <table><tr><td rowspan="2">Noise level dB(A) measured as</td><td colspan="3">Monday to Sunday including public holidays</td></tr><tr><td>7am - 6pm</td><td>6pm - 10pm</td><td>10pm - 7am</td></tr><tr><td colspan="4">Noise measured at a sensitive place</td></tr><tr><td>L_{Aeq} adj, 1 hour</td><td>45</td><td>35</td><td>30</td></tr></table>				Noise level dB(A) measured as	Monday to Sunday including public holidays			7am - 6pm	6pm - 10pm	10pm - 7am	Noise measured at a sensitive place				L _{Aeq} adj, 1 hour	45	35	30
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L _{Aeq} adj, 1 hour	45	35	30																

	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 activities must be undertaken when the activities are in operation.						
N2	When required by the administering authority, noise monitoring must be undertaken in accordance with the associated monitoring requirements of Table 1—Noise Limits, and the results notified within 14 days to the administering authority. Monitoring must include: 1. $L_{Aeq, adj, 1 \text{ hour}}$ 2. Background noise (Background) as $L_{A 90, adj, T}$ 3. $Max_{L_{pA, T}}$ 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.						
N3	Blasting activities must not exceed the limits for peak particle velocity and air blast overpressure in Table 2—Blasting noise limits when measured at any sensitive place or commercial place in accordance with the associated monitoring requirements. Table 2—Blasting noise limits <table border="1"> <thead> <tr> <th>Blasting Criteria</th><th>Blasting Limits</th></tr> </thead> <tbody> <tr> <td>Vibration (peak particle velocity)</td><td>Maximum 5 mm/s for 4 out of 5 consecutive blasts</td></tr> <tr> <td>Airblast overpressure level (dB linear peak)</td><td>Maximum 115 dB for 4 out of 5 consecutive blasts</td></tr> </tbody> </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.	Blasting Criteria	Blasting Limits	Vibration (peak particle velocity)	Maximum 5 mm/s for 4 out of 5 consecutive blasts	Airblast overpressure level (dB linear peak)	Maximum 115 dB for 4 out of 5 consecutive blasts
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Vibration (peak particle velocity)	Maximum 5 mm/s for 4 out of 5 consecutive blasts						
Airblast overpressure level (dB linear peak)	Maximum 115 dB for 4 out of 5 consecutive blasts						
N4	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.						
N5	Unless prior approval is obtained from the administering authority: 1. blasting is only permitted during the hours of 9am to 5pm Monday to Friday, and from 9am to 1pm on Saturdays. 2. blasting is not permitted at any time on Sundays or public holidays.						
N6	When required by the administering authority, a blast monitoring program must be developed and implemented to monitor compliance with Table 2—Blasting noise limits at any sensitive place or commercial place.						

Agency interest: Water					
Condition number	Condition				
WT1	The only contaminants to be released to surface waters are in accordance with <i>Table 3 - Surface water release limits</i> and the associated monitoring requirements.				
	Table 3 - Surface water release limits				
	Release Limit				
	Release Point	Quality Characteristics	Minimum	Maximum	Monitoring Frequency
	1*	TSS	-	50mg/L	Once each release event
		pH	6.5	8.5	
	2*	TSS	-	50mg/L	Once each release event
		pH	6.5	8.5	
	3*	TSS	-	50mg/L	Once each release event
		pH	6.5	8.5	
	4*	TSS	-	50mg/L	Once each release event
		pH	6.5	8.5	
* as shown on site map on Schedule 1 — Figure 1					
Associated monitoring requirements:					
1. Release points must be in accordance with the plan attached in Schedule 1 – Figure 1.					
2. Monitoring must be in accordance with the methods prescribed in the current edition of the Administering authority’s 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.					
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; and				
	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: Land	
Condition number	Condition
L1	Treatment and management of acid sulfate soils must comply with the current edition of the <i>Queensland Acid Sulfate Soil Technical Manual</i> .
L2	Land that has been disturbed for activities 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; and 2. potential for erosion is minimised; and 3. the quality of water, including seepage, released from the site does not cause environmental harm; and 4. potential for environmental nuisance caused by dust is minimised; and 5. the water quality of any residual water body does not have potential to cause environmental harm; and 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.
L4	Excavations that are to remain after cessation of the authorised activities at the approved place must be made safe and accessible to native animals.
Agency interest: Waste	
Condition number	Condition
WS1	All waste generated in carrying out the activities must be reused, recycled or removed to a facility that can lawfully accept the waste.

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/ies 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.

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 LA90,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.

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_{LpA,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.

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.

Sensitive place includes the following and includes a place within the curtilage of such a place reasonably used by persons at that place:

- 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.

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.



Schedule 1— Figure 1 Approved plans



END OF PERMIT