

Department of Environment and Heritage Protection

Permit¹

Environmental Protection Act 1994

Environmental authority

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

Permit¹ number: EPPR00639113

Environmental authority takes effect on the day it is signed by the delegate.

The anniversary date of this environmental authority is 30 June.

An annual return and the payment of the annual fee will be due each year on this day.

Environmental authority holder

Name	Registered address
Gympie Regional Council	242 Mary Street, GYMPIE QLD 4570

Environmentally relevant activity and location details

Environmentally relevant activity	Location(s)
16-(2a) Extracting >5,000t but <100,000t yr 16-(3a) Screening >5,000t but <100,000t yr	English's Gravel Pit, Glastonbury Creek Road, GLASTONBURY QLD 4570 - Lot 501/L37346; Saleyad Road, GYMPIE QLD 4570 - Lot 3/SP116459; Off Laureceson Road, GYMPIE QLD 4570 - Lot 769/MCH3426; Tagigan Road Gravel Pit, Tagigan Road TAGIGAN QLD 4570 - Lot 4/RP231449; Off Laureceson Road MONKLANDS QLD 4570 - Lot 4/RP36940; Mt Olive Road, CINNABAR QLD Lot 64/LX283; Rainbow Beach Road, RAINBOW BEACH QLD 4580 - Lot 451/FTY1597.
16-(2a) Extracting >5,000t but <100,000t yr	Anderleigh Road Pit, Anderleigh Road, TIARO QLD 4650 - Lot 14/MCH5065; Glenecho Pit (No. 1) Glenecho Road at 6.66km from Bauple-Woolooga Road, TIARO QLD 4650 Adjacent to Lot 1/RP44403; Glenecho Pit (No. 2) Glenecho Road at 11.78km from Bauple-Woolooga Road, TIARO QLD 4650, Adjacent to Lot 2/SP201772;

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



	Bayside Road, COOLOOLA COVE QLD 4580 - Lot 2/SP238517.
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Additional information for applicants

Environmentally relevant activities

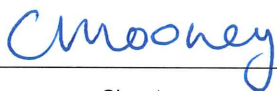
The description of any environmentally relevant activity (ERA) for which an environmental authority is issued is a restatement of the ERA as defined by legislation at the time the approval is issued. Where there is any inconsistency between that description of an ERA and the conditions stated by an environmental 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).

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

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



Date

Enquiries:
Government Organisations and Utilities
Assessment
GPO Box 2454
BRISBANE QLD 4001
Phone: 1300 130 372
Email: plam@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)

Conditions of environmental authority

Part 1 - General conditions

Environmentally relevant activity	Location(s)
16-(2a) Extracting >5,000t but <100,000t yr 16-(3a) Screening >5,000t but <100,000t yr	English's Gravel Pit, Glastonbury Creek Road, GLASTONBURY QLD 4570 - Lot 501/L37346; Saleyard Road, GYMPIE QLD 4570 - Lot 3/SP116459; Off Laureceson Road, GYMPIE QLD 4570 - Lot 769/MCH3426; Tagigan Road Gravel Pit, Tagigan Road TAGIGAN QLD 4570 - Lot 4/RP231449; Off Laureceson Road MONKLANDS QLD 4570 - Lot 4/RP36940; Mt Olive Road, CINNABAR QLD Lot 64/LX283; Rainbow Beach Road, RAINBOW BEACH QLD 4580 - Lot 451/FTY1597.
16-(2a) Extracting >5,000t but <100,000t yr	Anderleigh Road Pit, Anderleigh Road, TIARO QLD 4650 - Lot 14/MCH5065; Glenecho Pit (No. 1) Glenecho Road at 6.66km from Bauple-Woolooga Road, TIARO QLD 4650 Adjacent to Lot 1/RP44403; Glenecho Pit (No. 2) Glenecho Road at 11.78km from Bauple-Woolooga Road, TIARO QLD 4650, Adjacent to Lot 2/SP201772; Bayside Road, COOLOOLA COVE QLD 4580 - Lot 2/SP238517.

The environmentally relevant activity conducted at the locations as described above must be conducted in accordance with the following general conditions of approval.

Agency interest: General	
Condition number	Condition
G1.1	All reasonable and practicable measures must be taken to prevent or minimise environmental harm caused by the activity .
G1.2	The activity must be undertaken in accordance with written procedures that: a) identify potential risks to the environment from the activity during routine operations and emergencies; and b) establish and maintain control measures that minimise the potential for environmental harm;

	and c) ensure plant, equipment and measures are maintained in a proper and effective condition; and d) ensure plant, equipment and measures are operated in a proper and effective manner; and e) ensure that staff are trained and aware of their obligations under the <i>Environmental Protection Act 1994</i>; and f) ensure that reviews of environmental performance are undertaken at least annually.
G1.3	All records must be kept for a period of at least five years and provided to the administering authority upon request.
G1.4	Any breach of a condition of this environmental authority must be reported to the administering authority as soon as practicable within 24 hours of becoming aware of the breach. Records must be kept including full details of the breach and any subsequent actions taken.
G1.5	When required by the administering authority , monitoring must be undertaken in the manner prescribed by the administering authority , to investigate a complaint of environmental nuisance arising from the activity . The monitoring results must be provided to the administering authority , or nominated delegate, within the required timeframe and in the specified format upon request.
G1.6	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.
G1.7	Chemicals and fuels in containers of greater than 15 litres must be stored within a secondary containment system .
G1.8	You must record the following details for all environmental complaints received: a) date and time complaint was received b) name and contact details of the complainant c) nature of the complaint d) investigations undertaken e) conclusions formed f) actions taken.
Agency interest: Air	
Condition number	Condition
A1.1	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 .
A1.2	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), or b) a concentration of particulate matter with an aerodynamic diameter of less than 10 micrometre (µm) (PM10) suspended in the atmosphere of 50 micrograms per cubic metre over a 24 hour averaging time, when monitored in accordance with Australian Standard AS 3580.9.6 (or more recent editions) or any other method approved by the administering authority.

Agency interest: Water	
Condition number	Condition
WT1.1	Other than as permitted within this environmental authority, contaminants must not be released to any waters .
Agency interest: Noise	
Condition number	Condition
N1.1	Noise generated by the activity must not cause environmental nuisance to any sensitive place or commercial place .
Agency interest: Land	
Condition number	Condition
L1.1	Other than as permitted within this environmental authority, contaminants must not be released to land .
L1.2	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; 2. potential for erosion is minimised; 3. the quality of water released from the site, including seepage, 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.
L1.3	Rehabilitation of disturbed areas required under condition L1.2, must take place progressively as works are staged and new areas of extraction are commenced.
Agency interest: Waste	
Condition number	Condition
WS1.2	All waste generated in carrying out the activity must be lawfully reused, recycled or removed to a facility that can lawfully accept the waste.

Part 2 - Site specific conditions

Environmentally relevant activity	Location(s)
16-(2a) Extracting >5,000t but <100,000t yr	Anderleigh Road Pit, Anderleigh Road, TIARO QLD 4650 - Lot 14/MCH5065;

	Glenecho Pit (No. 1) Glenecho Road at 6.66km from Bauple-Woolooga Road, TIARO QLD 4650 Adjacent to Lot 1/RP44403; Glenecho Pit (No. 2) Glenecho Road at 11.78km from Bauple-Woolooga Road, TIARO QLD 4650, Adjacent to Lot 2/SP201772; Bayside Road, COOLOOLA COVE QLD 4580 - Lot 2/SP238517.
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In addition to Part 1 the environmentally relevant activity conducted at the locations as described above must be conducted in accordance with the following site specific conditions of approval.

Agency interest: Air	
Condition number	Condition
A2.1	When requested by the administering authority , dust and particulate monitoring must be undertaken to investigate any complaint of environmental nuisance caused by dust and/or particulate matter, and the results notified within 14 days to the administering authority following completion of monitoring. Monitoring must be carried out at a place(s) relevant to the potentially affected dust sensitive place and at upwind control sites and must include: (a) for a complaint alleging dust nuisance, dust deposition; and (b) for a complaint alleging adverse health effects caused by dust, the concentration per cubic metre of particulate matter with an aerodynamic diameter of less than 10 micrometre (µm) (PM10) suspended in the atmosphere over a 24hr averaging time.
Agency interest: Noise	
Condition number	Condition
N2.1	In the event of a complaint about noise environmental nuisance that the administering authority considers is not frivolous or vexatious then a noise management plan is to be developed within one (1) month of the registered operator being advised in writing of the complaint. The noise management plan must address at least, but not be limited to, the following matters: a) identification of component noise sources and activities at the place(s) which impact on noise sensitive areas; b) the measured and/or predicted level of these noise sources and activities at noise sensitive places; c) the reasonable and practicable control or abatement measures that can be undertaken to reduce identified intrusive noise sources; d) the level of noise at noise sensitive places that would be achieved from implementing these measures ; e) the handling of future noise complaints; f) community liaison and consultation; and g) training of staff in noise management practices.
N2.2	Upon the completion of the noise management plan it must be submitted to the administering authority within 14 days for its review and comment.
N2.3	After the administering authority has provided comment on the noise management plan, the registered operator must implement the plan as soon as practicable.
Agency interest: Land	
Condition number	Condition
L2.1	Twelve (12) months prior to closure the registered operator must submit a report detailing how the rehabilitation of all sites will be carried out.

Part 3 - Site specific conditions

Environmentally relevant activity	Location(s)
16-(2a) Extracting >5,000t but <100,000t yr 16-(3a) Screening >5,000t but <100,000t yr	English's Gravel Pit, Glastonbury Creek Road, GLASTONBURY QLD 4570 - Lot 501/L37346; Saleyad Road, GYMPIE QLD 4570 - Lot 3/SP116459; Off Laureceson Road, GYMPIE QLD 4570 - Lot 769/MCH3426; Tagigan Road Gravel Pit, Tagigan Road TAGIGAN QLD 4570 - Lot 4/RP231449; Off Laureceson Road MONKLANDS QLD 4570 - Lot 4/RP36940; Rainbow Beach Road, RAINBOW BEACH QLD 4580 - Lot 451/FTY1597.
16-(2a) Extracting >5,000t but <100,000t yr	Bayside Road, COOLOOLA COVE QLD 4580 - Lot 2/SP238517.

In addition to Part 1 the environmentally relevant activity conducted at the locations as described above must be conducted in accordance with the following site specific conditions of approval.

Agency interest: Air

Condition number	Condition
A3.1	When requested by the administering authority, dust and particulate monitoring must be undertaken to investigate any complaint of environmental nuisance caused by dust and/or particulate matter, and the results notified within 14 days to the administering authority following completion of monitoring. Monitoring must be carried out at a place(s) relevant to the potentially affected dust sensitive place and at upwind control sites and must include: (a) for a complaint alleging dust nuisance, dust deposition; and (b) for a complaint alleging adverse health effects caused by dust, the concentration per cubic metre of particulate matter with an aerodynamic diameter of less than 10 micrometre (µm) (PM10) suspended in the atmosphere over a 24hr averaging time.

Agency interest: Water

Condition number	Condition												
WT3.1	Contaminants must only be released to waters from the release points and in compliance with each of the release limits for the water quality characteristics listed in <i>Table WT3.1 - Sediment release limits</i>. Table WT3.1 - Sediment release limits <table> <tr> <th>Monitoring point</th> <th>Release point</th> <th>Parameter</th> <th>Maximum</th> <th>Monitoring frequency</th> </tr> <tr> <td rowspan="2">Any points on the site boundary where water affected by the activities is released from the site</td> <td rowspan="2">Any points on the site boundary where water affected by the activities is released from the site</td> <td>Suspended Solids (mg/L)</td> <td>50</td> <td rowspan="2">Daily in the event of a release*</td> </tr> <tr> <td>pH</td> <td>within the range 6.9 - 9.0</td> </tr> </table> * At an approved location where the ERA has been conducted within the month prior to the release.	Monitoring point	Release point	Parameter	Maximum	Monitoring frequency	Any points on the site boundary where water affected by the activities is released from the site	Any points on the site boundary where water affected by the activities is released from the site	Suspended Solids (mg/L)	50	Daily in the event of a release*	pH	within the range 6.9 - 9.0
Monitoring point	Release point	Parameter	Maximum	Monitoring frequency									
Any points on the site boundary where water affected by the activities is released from the site	Any points on the site boundary where water affected by the activities is released from the site	Suspended Solids (mg/L)	50	Daily in the event of a release*									
		pH	within the range 6.9 - 9.0										

WT3.2	All disturbed areas (e.g. borrow pits and screening areas) must be progressively re-profiled and stabilised to ensure that at the cessation of activities, erosion is minimised.																
WT3.3	Stormwater runoff from disturbed areas of the site, 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 prior to release.																
Agency interest: Noise																	
Condition number	Condition																
N3.1	In the event of a complaint about noise that constitutes annoyance made to the administering authority, that the administering authority considers is not frivolous or vexatious, then the emission of noise from the authorised places must not result in levels greater than those specified in <i>Table N3.1 - Noise limits</i>. Table N3.1 - Noise limits <table border="1"> <tr> <th>Time period</th><th>Noise level at a 'Noise sensitive place' measured as the Adjusted Maximum Sound Pressure Level $L_{AmaxadjT}$</th></tr> <tr> <td>6.30am - 6.00pm</td><td>Background noise level plus 5 dB(A)</td></tr> <tr> <td>6.00pm - 10.00pm</td><td>Background noise level plus 3 dB(A)</td></tr> <tr> <td>10.00pm - 6.30am</td><td>Background noise level plus 3 dB(A)</td></tr> <tr> <th>Time period</th><th>Noise level at a 'Commercial place' measured as the Adjusted Maximum Sound Pressure Level $L_{AmaxadjT}$</th></tr> <tr> <td>6.30am - 6.00pm</td><td>Background noise level plus 10 dB(A)</td></tr> <tr> <td>6.00pm - 10.00pm</td><td>Background noise level plus 8 dB(A)</td></tr> <tr> <td>10.00pm - 6.30am</td><td>Background noise level plus 8 dB(A)</td></tr> </table> Note: $L_{A10 adj 15 mins}$ levels may be substituted for $L_{Amax adj 15 min}$ levels if evidence is provided that $L_{A10 adj 15 mins}$ levels are representative of component noise levels from source(s)/premises under investigation. Associated monitoring requirements 1. Any monitoring must be in accordance with the most recent version of the administering authority's Noise Measurement Manual.	Time period	Noise level at a 'Noise sensitive place ' measured as the Adjusted Maximum Sound Pressure Level $L_{AmaxadjT}$	6.30am - 6.00pm	Background noise level plus 5 dB(A)	6.00pm - 10.00pm	Background noise level plus 3 dB(A)	10.00pm - 6.30am	Background noise level plus 3 dB(A)	Time period	Noise level at a ' Commercial place ' measured as the Adjusted Maximum Sound Pressure Level $L_{AmaxadjT}$	6.30am - 6.00pm	Background noise level plus 10 dB(A)	6.00pm - 10.00pm	Background noise level plus 8 dB(A)	10.00pm - 6.30am	Background noise level plus 8 dB(A)
Time period	Noise level at a 'Noise sensitive place ' measured as the Adjusted Maximum Sound Pressure Level $L_{AmaxadjT}$																
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10.00pm - 6.30am	Background noise level plus 8 dB(A)																
N3.2	The measurement and reporting of noise levels must be undertaken by a person or body possessing both the qualifications and the experience appropriate to perform the required measurements.																
N3.3	When requested by the administering authority, noise monitoring must be undertaken to investigate any complaint of noise nuisance, and the results notified within 14 days to the administering authority. Monitoring must include: - background noise; - $L_{A max adj T}$ or where established as being appropriate $L_{A10 adj 15mins}$; - the level and frequency of occurrence of impulsive or tonal noise; - atmospheric conditions including wind speed and direction; - effects due to extraneous factors such as traffic noise; and - location, date and time of recording.																
N3.4	Notwithstanding any other condition of this integrated authority, no activities that are likely to generate significant noise (e.g. crushing, blasting) may be carried out: a) outside the hours of 6.30am to 6.00pm Mondays to Fridays; b) outside the hours of 6.30am to 2.00pm Saturdays; c) on Sundays; d) on public holiday(s); or e) on Christmas Day, Good Friday or Anzac Day.																

N3.5	All blasting must be carried out in a proper manner by a competent person in accordance with best practice environmental management to minimise the likelihood of adverse effects being caused by the impact of airblast overpressure and ground borne vibrations on noise sensitive places and people living in or using the surrounding area.													
N3.6	Blasting activities must be carried out in such a manner that if blasting noise should propagate to a noise sensitive place, then the airblast overpressure must be not more than 115 dB(linear) peak for nine out of any 10 consecutive blasts initiated, regardless of the interval between blasts.													
N3.7	Blasting activities must be carried out in such a manner that if blasting noise should propagate to a noise sensitive place, then the airblast overpressure must not exceed 120 dB(linear) peak for any blast.													
N3.8	Noise from blasting must be measured using noise measurement equipment with a lower limiting frequency of 2 Hz (-3 dB response point of the measurement system) and a detector onset time of not greater than 100 µsec as assessed in accordance with AS 1259.													
N3.9	Vibration emitted from activities must not cause a nuisance at any vibration sensitive place.													
N3.10	Vibration emitted from activities must not exceed the levels specified in <i>Table N3.10 - Vibration limits</i> at any vibration sensitive place. <table><tr><th colspan="3">Table N3.10 - Vibration limits</th></tr><tr><th rowspan="2">Vibration parameter</th><th colspan="2">Vibration measured at a 'Sensitive place'</th></tr><tr><th>Monday to Friday 9.00am - 3.00pm Saturday 9.00am - 1.00pm</th><th>All other times and public holidays</th></tr><tr><td>Houses and low rise residential buildings and commercial buildings not included below</td><td>5 mm/s</td><td rowspan="2">No blasting to occur</td></tr><tr><td>Commercial and industrial buildings or structures of reinforced concrete or steel construction</td><td>10 mm/s</td></tr></table>	Table N3.10 - Vibration limits			Vibration parameter	Vibration measured at a 'Sensitive place'		Monday to Friday 9.00am - 3.00pm Saturday 9.00am - 1.00pm	All other times and public holidays	Houses and low rise residential buildings and commercial buildings not included below	5 mm/s	No blasting to occur	Commercial and industrial buildings or structures of reinforced concrete or steel construction	10 mm/s
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Houses and low rise residential buildings and commercial buildings not included below	5 mm/s	No blasting to occur												
Commercial and industrial buildings or structures of reinforced concrete or steel construction	10 mm/s													
3.11	When requested by the administering authority, vibration monitoring and recording must be undertaken to investigate any complaint of nuisance, and the results notified within 14 days to the administering authority. Monitoring must include: a) peak particle velocity (mm/s); b) location of the blast/s within the site (including which bench level); c) atmospheric conditions including temperature, relative humidity and wind speed and direction; d) the level and frequency of occurrence of impulsive or tonal noise; e) atmospheric conditions including wind speed and direction; f) effects due to extraneous factors; and g) location, date and time of recording													
N3.12	The ground-borne vibration transducer (or array) must be attached to a mass of at least 30 kg to ensure good coupling with the ground where the blast site and the measurement site cannot be shown to be on the same underlying strata. The mass shall be buried so that its uppermost surface is at the same level as the ground surface.													
N3.13	The ground-borne vibration transducer (or array) must be placed at a distance of at least the longest dimension of the foundations of a noise-affected building or structure away from such building or structure, between that building or structure and the site of the blasting .													
N3.14	When requested by the administering authority measurements of airblast overpressure should be taken at a location which is exposed to the blasting and is at least 4 metres from any noise-affected building or structure, at a position between 12 metres and 1.5 metres above the ground or between 1.2 metres and 1.5 metres above each floor level of interest.													

Agency interest: Land	
Condition number	Condition
L3.1	At least three (3) months prior to ceasing carrying out the environmentally relevant activities at a site the holder of the integrated authority must submit to the administering authority a Site Rehabilitation and Decommissioning Report (SRDR) detailing measures proposed to minimise the likelihood of any environmental harm being caused during or after the decommissioning or rehabilitation as a consequence of the carrying out of the environmentally relevant activities, decommissioning or rehabilitation
L3.2	The Site Rehabilitation and Decommissioning Report (SRDR) must address the following: a) a rehabilitation plan for the site taking into account the final use of the land and relevant environmental considerations including but not limited to: i. the proposed shaping of the final landform after rehabilitation including an assessment of the stability of all batter slopes; ii. proposed nature of materials utilised and techniques employed for any proposed backfilling of extracted areas such as filling, compacting, topsoiling, overburden return and any other soil amelioration leading to vegetation establishment; and iii. a program and timetable for all works proposed. b) prevention or treatment of the release of contaminated stormwater runoff from raw material stockpiles and disturbed areas to the bed or banks of any watercourse.

Part 4 Site specific conditions

Environmentally relevant activity	Location
16-(2a) Extracting >5,000t but <100,000t yr	Mt Olive Road, CINNABAR QLD Lot 64/LX283;
16-(3a) Screening >5,000t but <100,000t yr	

In addition to Part 1 the environmentally relevant activity conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

Agency interest: Air																																																												
Condition number	Condition																																																											
A4.1	When requested by the administering authority , dust and particulate monitoring must be undertaken to investigate any complaint of environmental nuisance caused by dust and/or particulate matter, and the results notified within 14 days to the administering authority following completion of monitoring. Monitoring must be carried out at a place(s) relevant to the potentially affected dust sensitive place and at upwind control sites and must include: a) for a complaint alleging dust nuisance, dust deposition; and b) for a complaint alleging adverse health effects caused by dust, the concentration per cubic metre of particulate matter with an aerodynamic diameter of less than 10 micrometre (µm) (PM10) suspended in the atmosphere over a 24hr averaging time.																																																											
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Condition number	Condition																																																											
N4.1	In the event of a complaint, noise from the ERA must not exceed the levels specified in <i>Table N4.1 — Noise limits</i> at any nuisance sensitive place or any commercial place. Table N4.1 — Noise limits at any nuisance sensitive place or any commercial place <table><tr><th rowspan="3">Noise level dB(A) measured as</th><th colspan="3">Monday to Saturday</th><th colspan="3">Sundays and public holidays</th></tr><tr><th>7am - 6pm</th><th>6pm - 10pm</th><th>10pm - 7am</th><th>9am - 6pm</th><th>6pm - 10pm</th><th>10pm - 9pm</th></tr><tr><th colspan="6">Noise measured at a 'Noise sensitive place'</th></tr><tr><td>LA10 adj 10 mins</td><td>BG+5 dB(A)</td><td>BG+5 dB(A)</td><td>BG+0 dB(A)</td><td>BG+0 dB(A)</td><td>BG+0 dB(A)</td><td>BG+0 dB(A)</td></tr><tr><td>LA1 adj 10 mins</td><td>BG+10 dB(A)</td><td>BG+10 dB(A)</td><td>BG+0 dB(A)</td><td>BG+0 dB(A)</td><td>BG+0 dB(A)</td><td>BG+0 dB(A)</td></tr><tr><th></th><th colspan="6">Noise measured at a 'Commercial place'</th></tr><tr><td>LA10 adj 10 mins</td><td>BG+10 dB(A)</td><td>BG+10 dB(A)</td><td>BG+5 dB(A)</td><td>BG+0 dB(A)</td><td>BG+0 dB(A)</td><td>BG+0 dB(A)</td></tr><tr><td>LA1 adj 10 mins</td><td>BG+15 dB(A)</td><td>BG+15 dB(A)</td><td>BG+10 dB(A)</td><td>BG+0 dB(A)</td><td>BG+0 dB(A)</td><td>BG+0 dB(A)</td></tr></table> Note: BG in the above table refers to the background noise level for the stated period Associated monitoring requirements 1. Any monitoring must be in accordance with the most recent version of the administering authority's Noise Measurement Manual.						Noise level dB(A) measured as	Monday to Saturday			Sundays and public holidays			7am - 6pm	6pm - 10pm	10pm - 7am	9am - 6pm	6pm - 10pm	10pm - 9pm	Noise measured at a 'Noise sensitive place'						LA10 adj 10 mins	BG+5 dB(A)	BG+5 dB(A)	BG+0 dB(A)	BG+0 dB(A)	BG+0 dB(A)	BG+0 dB(A)	LA1 adj 10 mins	BG+10 dB(A)	BG+10 dB(A)	BG+0 dB(A)	BG+0 dB(A)	BG+0 dB(A)	BG+0 dB(A)		Noise measured at a 'Commercial place'						LA10 adj 10 mins	BG+10 dB(A)	BG+10 dB(A)	BG+5 dB(A)	BG+0 dB(A)	BG+0 dB(A)	BG+0 dB(A)	LA1 adj 10 mins	BG+15 dB(A)	BG+15 dB(A)	BG+10 dB(A)	BG+0 dB(A)	BG+0 dB(A)	BG+0 dB(A)
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LA10 adj 10 mins	BG+5 dB(A)	BG+5 dB(A)	BG+0 dB(A)	BG+0 dB(A)	BG+0 dB(A)	BG+0 dB(A)																																																						
LA1 adj 10 mins	BG+10 dB(A)	BG+10 dB(A)	BG+0 dB(A)	BG+0 dB(A)	BG+0 dB(A)	BG+0 dB(A)																																																						
	Noise measured at a 'Commercial place'																																																											
LA10 adj 10 mins	BG+10 dB(A)	BG+10 dB(A)	BG+5 dB(A)	BG+0 dB(A)	BG+0 dB(A)	BG+0 dB(A)																																																						
LA1 adj 10 mins	BG+15 dB(A)	BG+15 dB(A)	BG+10 dB(A)	BG+0 dB(A)	BG+0 dB(A)	BG+0 dB(A)																																																						
N4.2	When requested by the administering authority, noise monitoring must be undertaken to investigate any complaint of noise nuisance, and the results notified within 14 days to the administering authority. Monitoring must include: - LA 10, adj, 10 mins - LA 1, adj, 10 mins - background noise levels - the level and frequency of occurrence of impulsive or tonal noise; - atmospheric conditions including wind speed and direction; - effects due to extraneous factors such as traffic noise; and - location, date and time of recording.																																																											
N4.3	Vibration emitted from the ERA must not cause an environmental nuisance at any nuisance sensitive place or commercial place .																																																											

N4.4	When requested by the administering authority , vibration monitoring and recording must be undertaken to investigate any complaint of vibration nuisance, and the results notified within 14 days to the administering authority . Monitoring must include: a) peak particle velocity (mm/s); b) location of the blast/s within the site (including which bench level); c) atmospheric conditions including temperature, relative humidity and wind speed and direction; d) the level and frequency of occurrence of impulsive or tonal noise; e) atmospheric conditions including wind speed and direction; f) effects due to extraneous factors; and g) location, date and time of recording.																												
Agency interest: Water																													
Condition number	Condition																												
WT4.1	All stormwater from disturbed areas must report to sedimentation dam for settling/treatment prior to release from site in accordance with condition WT4.2.																												
WT4.2	Settled/treated stormwater runoff must only be released in compliance with the release limits listed in <i>Table WT4.3 - Stormwater release limits to water</i> , from the following discharge locations: Check Dam 6 - namely release of treated stormwater from last check dam prior to entering pipe to dam																												
WT4.3	Monitoring must be undertaken and records kept of contaminant releases to waters at each of the discharge points specified in condition WT4.2 for the quality characteristics and not less frequently than specified in <i>Table WT4.3 - Stormwater release limits to water</i>. Table WT4.3 - Stormwater release limits to water <table><tr><th rowspan="2">Monitoring point</th><th rowspan="2">Discharge location</th><th rowspan="2">Quality characteristics</th><th colspan="3">Release limit</th><th rowspan="2">Monitoring frequency</th></tr><tr><th>Minimum</th><th>50th Percentile</th><th>Maximum</th></tr><tr><td></td><td></td><td>pH</td><td>6.0</td><td>N/A</td><td>8.5</td><td rowspan="2">Not less than once every calendar month in which water is released from the check dam Where practicable, the above mentioned samples must be collected during a storm event.</td></tr><tr><td>M1</td><td>The last check dam prior to entering main dam</td><td>Suspended Solids (mg/L)</td><td>N/A</td><td>30</td><td>50</td></tr></table> Associated monitoring requirements 1. Any monitoring must be in accordance with the most recent version of the administering authority's <i>Water Quality Sampling Manual</i>.						Monitoring point	Discharge location	Quality characteristics	Release limit			Monitoring frequency	Minimum	50th Percentile	Maximum			pH	6.0	N/A	8.5	Not less than once every calendar month in which water is released from the check dam Where practicable, the above mentioned samples must be collected during a storm event.	M1	The last check dam prior to entering main dam	Suspended Solids (mg/L)	N/A	30	50
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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 Science or its successors 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 and experience relevant to the EA requirement and can give authoritative assessment, advice and analysis in relation to the EA requirement using the relevant protocols, standards, methods or literature.

Authorised place means the place authorised under this approval for the carrying out of the specified environmentally relevant activities.

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.

Environmental nuisance as defined in Chapter 1 of the *Environmental Protection Act 1994*.

Land does not include **waters**.

L_{A1 adj 10 mins} means the A-weighted sound pressure level (adjusted for tonal character and impulsiveness of the sound) exceeded for 1% of any 10 minute measurement period, using Fast response.

L_{A10 adj 10 mins} means the A-weighted sound pressure level (adjusted for tonal character and impulsiveness of the sound) exceeded for 10% of any 10 minute measurement period, using Fast response.

L_{A max adj T} means the average maximum A-weighted sound pressure level adjusted for noise character and measured over any 10 minute measurement period, using Fast response.

Measures has the broadest interpretation and includes:

- Procedural measures such as standard operating procedures for dredging operations, environmental risk assessment, management actions, departmental direction and competency expectations under relevant guidelines
- Physical measures such as plant, equipment, physical objects (such as bunding, containment systems etc.), ecosystem monitoring and bathymetric surveys.

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.

Records include breach notifications, written procedures, analysis results, monitoring reports and monitoring programs required under a condition of this authority.

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:

1. a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises; or
2. a motel, hotel or hostel; or
3. a kindergarten, school, university or other educational institution; or
4. a medical centre or hospital; or
5. a protected area under the *Nature Conservation Act 1992*, the *Marine Parks Act 2004* or a World Heritage Area; or
6. a public thoroughfare, park or garden; or
7. for noise, a place defined as a sensitive receptor for the purposes of the *Environmental Protection (Noise) Policy 2008*.

You means the holder of the environmental authority.

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.

END OF PERMIT

