

Permit

Environmental Protection Act 1994

Environmental authority EPPR00663613

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

Environmental authority number: EPPR00663613

Environmental authority takes effect on 28 October 2020

Environmental authority holder(s)

Name(s)	Registered address
LD & LJ HILLERY PTY LIMITED	167 Richmond Rd BOWEN QLD 4805 Australia

Environmentally relevant activity and location details

Environmentally relevant activity(ies)	Locations(s)
ERA 16-2(b) — extracting, other than by dredging, in a year 100,000t to 1,000,000t of material; and ERA 16-3(b) — screening, in a year, 100,000 to 1,000,000t of material	Lot 26 Plan SP220411 Abbot Point Quarry, Access Road, Abbot Point
ERA 16-3(b) — screening, in a year, 100,000 to 1,000,000t of material	Lot 44 Plan HR1599 Abbot Point Road, Bowen
ERA 16-2(b) — extracting, other than by dredging, in a year 100,000t to 1,000,000t of material; and ERA 16-3(b) — screening, in a year, 100,000 to 1,000,000t of material	Lot 92 Plan DK182 Umina, Bowen Developmental Road Collinsville
ERA 16-2(b) — extracting, other than by dredging, in a year 100,000t to 1,000,000t of material; and ERA 16-3(b) — screening, in a year, 100,000 to 1,000,000t of material	Lot 45 Plan HR1600 Off Abbot Point Road, Bowen
ERA 16-2(b) — extracting, other than by dredging, in a year 100,000t to 1,000,000t of material; and	Lot 1 Plan SP115943 Armuna Holdings Bowen Developmental Road, Bowen

ERA 16-3(b) — screening, in a year, 100,000 to 1,000,000t of material	
ERA 16-1(b) — dredging, in a year, 10,000t to 100,000t of material; and ERA 16-3(a) — screening, in a year, 5,000t to 100,000t of material	Adjacent to Lot 5 on K1242 Millers Lane, Bowen Lot 5 Plan K1242 Millers Lane, Bowen
ERA 16-1(b) — dredging, in a year, 10,000t to 100,000t of material; and ERA 16-3(a) — screening, in a year, 5,000t to 100,000t of material	Adjacent to Lot 9 on SP178909 Don River
ERA 16-1(b) — dredging, in a year, 10,000t to 100,000t of material; and ERA 16-3(a) — screening, in a year, 5,000t to 100,000t of material	Adjacent to Lot 2 on RP711274 Don River
ERA 16-1(b) — dredging, in a year, 10,000t to 100,000t of material; and ERA 16-3(a) — screening, in a year, 5,000t to 100,000t of material	Adjacent to Lot 49 on B6611 Don River
ERA 16-3(a) screening, in a year, the following quantity of material -more than 5,000t but not more than 100,000t	Mobile and temporary within the state of Queensland
ERA 16-2(a) extracting, other than by dredging, in a year, 5,000t to 100,000t of material	Lot 1 Plan K12440 Bootooloo Road, Bowen
ERA 53-(a) Composting & soil conditioner manufacturing >200t/yr	Lot 22 Plan SP106414 Collinsville Road, Bowen
ERA 57- transporting regulated waste other than end-of-life tyres	Mobile and temporary within the state of Queensland

Additional information for applicants

Environmentally relevant activities

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

An EA authorises the carrying out of an ERA and does not authorise any environmental harm unless a condition stated by the EA 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 an owner or occupier of contaminated land give written notice to the administering authority if they become aware of the following:

- the happening of an event involving a hazardous contaminant on the contaminated land (notice must be given within 24 hours); or
- a change in the condition of the contaminated land (notice must be given within 24 hours); or
- a notifiable activity (as defined in Schedule 3) having been carried out, or is being carried out, on the contaminated land (notice must be given within 20 business days);

that is causing, or is reasonably likely to cause, serious or material environmental harm.

For further information, including the form for giving written notice, refer to the Queensland Government website www.qld.gov.au, using the search term 'duty to notify'.

Take effect

Please note that, in accordance with section 200 of the EP Act, an EA has effect:

- a) if the authority is for a prescribed ERA and it states that it takes effect on the day nominated by the holder of the authority in a written notice given to the administering authority-on the nominated day; or
- b) if the authority states a day or an event for it to take effect-on the stated day or when the stated event happens; or
- c) otherwise-on the day the authority is issued.

However, if the EA is authorising an activity that requires an additional authorisation (a relevant tenure for a resource activity, a development permit under the *Planning Act 2016* or an SDA Approval under the *State Development and Public Works Organisation Act 1971*), this EA will not take effect until the additional authorisation has taken effect.

If this EA takes effect when the additional authorisation takes effect, you must provide the administering authority written notice within 5 business days of receiving notification of the related additional authorisation taking effect.

If you have incorrectly claimed that an additional authorisation is not required, carrying out the ERA without the additional authorisation is not legal and could result in your prosecution for providing false or misleading information or operating without a valid environmental authority.

Clancy Mackaway
Department of Environment and Science
Delegate of the administering authority
Environmental Protection Act 1994

Date issued: 28 October 2020

Enquiries:
Energy and Extractive Resources
Department of Environment and Science
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Phone: (07) 3330 5715
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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**Part 1 - Conditions relevant to all activities and locations**

Environmentally relevant activity(ies)	Locations(s)
ERA 16-2(b) — extracting, other than by dredging, in a year 100,000t to 1,000,000t of material; and	Lot 26 Plan SP220411 Abbot Point Quarry, Access Road, Abbot Point
ERA 16-3(b) — screening, in a year, 100,000 to 1,000,000t of material	Lot 44 Plan HR1599 Abbot Point Road, Bowen
ERA 16-2(b) — extracting, other than by dredging, in a year 100,000t to 1,000,000t of material; and ERA 16-3(b) — screening, in a year, 100,000 to 1,000,000t of material	Lot 92 Plan DK182 Umina, Bowen Developmental Road Collinsville
ERA 16-2(b) — extracting, other than by dredging, in a year 100,000t to 1,000,000t of material; and ERA 16-3(b) — screening, in a year, 100,000 to 1,000,000t of material	Lot 45 Plan HR1600 Off Abbot Point Road, Bowen
ERA 16-2(b) — extracting, other than by dredging, in a year 100,000t to 1,000,000t of material; and ERA 16-3(b) — screening, in a year, 100,000 to 1,000,000t of material	Lot 1 Plan SP115943 Armuna Holdings Bowen Developmental Road, Bowen
ERA 16-1(b) — dredging, in a year, 10,000t to 100,000t of material; and ERA 16-3(a) — screening, in a year, 5,000t to 100,000t of material	Adjacent to Lot 5 on K1242 Millers Lane, Bowen Lot 5 Plan K1242 Millers Lane, Bowen
ERA 16-1(b) — dredging, in a year, 10,000t to 100,000t of material; and ERA 16-3(a) — screening, in a year, 5,000t to 100,000t of material	Adjacent to Lot 9 on SP178909 Don River
ERA 16-1(b) — dredging, in a year, 10,000t to 100,000t of material; and	Adjacent to Lot 2 on RP711274

ERA 16-3(a) — screening, in a year, 5,000t to 100,000t of material	Don River
ERA 16-1(b) — dredging, in a year, 10,000t to 100,000t of material; and ERA 16-3(a) — screening, in a year, 5,000t to 100,000t of material	Adjacent to Lot 49 on B6611 Don River
ERA 16-3(a) screening, in a year, the following quantity of material -more than 5,000t but not more than 100,000t	Mobile and temporary within the state of Queensland
ERA 16-2(a) extracting, other than by dredging, in a year, 5,000t to 100,000t of material	Lot 1 Plan K12440 Bootooloo Road, Bowen
ERA 53-(a) Composting & soil conditioner manufacturing >200t/yr	Lot 22 Plan SP106414 Collinsville Road, Bowen
ERA 57- transporting regulated waste other than end-of-life tyres	Mobile and temporary within the state of Queensland

The environmentally relevant activity(ies) conducted at the locations described above for this part must be conducted in accordance with the following site specific conditions.

Agency interest: General	
Condition number	Condition
G1	All reasonable and practicable measures must be taken to prevent or minimise environmental harm caused by the activities .
G2	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.
G3	Other than as permitted by this environmental authority, the release of a contaminant into the environment must not occur.
G4	Environmental monitoring results must be kept until surrender of this environmental authority. All other information and records that are required by the conditions of this environmental authority must be kept for a minimum of five (5) years. All information and records required by the conditions of this environmental authority must be provided to the administering authority, or nominated delegate upon request, within the required timeframe and in the specified format.

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 National Association of Testing Authorities (NATA) certification, or an equivalent certification, for such analyses. The only exception to this condition is the in situ monitoring of turbidity, pH, electrical conductivity and dissolved oxygen.
G7	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 within 10 business days to the administering authority upon its request.
G8	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.
G9	Chemicals and fuels in containers of greater than 15 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 must not cause environmental 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), or b) a concentration of particulate matter with an aerodynamic diameter of less than 10 micrometre (μm) (PM_{10}) 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	Other than as permitted within this environmental authority, contaminants must not be released to any waters .
WT2	Erosion and sediment control measures must be implemented and maintained to minimise erosion and the release of sediment.
WT3	Stormwater that is not contaminated by the activity must be diverted away from areas where it may become contaminated by the activity. Stormwater that is contaminated by the activity must be directed to a treatment system.
Agency interest: Noise	
Condition number	Condition
N1	Other than as permitted within this environmental authority, noise generated by the activity must not cause environmental nuisance to any sensitive place or commercial place .
N2	When required by the administering authority, noise monitoring must be undertaken in accordance with the associated monitoring requirements of <i>Table - Noise Limits</i>, and the results notified within 14 days to the administering authority. Monitoring must include: 1. LAeq, adj, T 2. Background noise (Background) as LA 90, adj, T 3. MaxLpA,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. recording of location, date and time of measurements.

Agency interest: Land	
Condition number	Condition
L1	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.
L2	Rehabilitation of disturbed areas required under Condition L1, must take place progressively as works are staged and new areas of extraction or dredging are commenced.
L3	Treatment and management of acid sulfate soils must comply with the current edition of the <i>Queensland Acid Sulfate Soil Technical Manual</i> .
Agency interest: Waste	
Condition number	Condition
WS1	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 – conditions for Lot 92 Plan DK182

Environmentally Relevant Activities	Location
ERA 16-2(b) — extracting, other than by dredging, in a year 100,000t to 1,000,000t of material; and ERA 16-3(b) — screening, in a year, 100,000 to 1,000,000t of material	Lot 92 Plan DK182 Collinsville Road, Bowen QLD 4805

The environmentally relevant activity(ies) conducted at the locations described above for this part must be conducted in accordance with the following site specific conditions.

Agency interest: General	
Condition number	Condition
G10	Activities under this environmental authority must be conducted in accordance with the following limitations: 1. Extraction must only occur within the 'Quarry Area' indicated in Appendix 1. 2. Screening and stockpiling must only occur within the area labelled as 'Stockpile and processing Pad' in Appendix 1. 3. The amount of material extracted per year must not exceed 220,000 tonnes per annum; 4. The amount of material screened per year must not exceed 220,000 tonnes per annum.
Agency interest: Water	
Condition number	Condition
WT4	Water is only permitted to be released from the Sediment Pond shown in Appendix 1.
WT5	The only contaminants to be released to surface waters are settled treated stormwater to waters in accordance with <i>Table 1 - Surface water release limits</i> and the associated monitoring requirements.

Table 1 - Surface water release limits

Release Point(s) Description	Quality characteristic (units)	Limit	Limit Type	Minimum Monitoring Frequency
Release Point 1- RP1	Electrical conductivity (µS/cm)	1000	Maximum	Quarterly (every 3 months) or weekly when the freeboard of the sedimentation dam is less than 0.5m.
	Total and dissolved metals (µg/L) including: aluminium, arsenic, cadmium, chromium, copper, iron, lead, mercury, nickel, zinc, boron, cobalt, manganese, molybdenum, selenium, silver, and uranium.	ANZECC and ARMCANZ (2000) guideline trigger levels		
	Petroleum hydrocarbons (C6-C9) (µg/L)	20	Maximum	
	Petroleum hydrocarbons (C10-C36) (µg/L)	100	Maximum	
	Chlorophyll a (µg/L)	5.0	Maximum	
	Turbidity (NTU)	100	Maximum	

	Associated monitoring requirements - Monitoring must be in accordance with the methods prescribed in the current edition of the administering authority's <i>Monitoring and Sampling Manual</i>. - Water and sediment samples must be representative of the general condition of the water body or sediments. - All determinations must employ analytical practical quantification limits of sufficient sensitivity to enable comparisons to be made against water quality objectives/triggers/limits relevant to the particular water or sediment quality characteristic. - Monitoring must be undertaken during a release and at the frequency stated. - All monitoring devices must be calibrated and maintained according to the manufacturer's instruction manual.																																																											
Agency interest: Noise																																																												
Condition number	Condition																																																											
N3	Noise from the activity must not exceed the levels identified in <i>Table 2 - Noise limits</i> when measured in accordance with the associated monitoring requirements. Table 2- Noise limits <table><tr><th rowspan="3">Noise level measured in dB(A)</th><th colspan="3">Monday to Saturday</th><th colspan="3">Sunday 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-9am</th></tr><tr><th colspan="6">Noise measured at a nuisance sensitive place</th></tr><tr><td>L_{Aeq adj,T}</td><td>Background +5</td><td>Background +3</td><td>Background +0</td><td>Background +5</td><td>Background + 3</td><td>Background + 0</td></tr><tr><td>MaxL_{pA T}</td><td>Background +10</td><td>Background +8</td><td>Background +5</td><td>Background +10</td><td>Background +8</td><td>Background +5</td></tr><tr><th></th><th colspan="6">Noise measured at a commercial place</th></tr><tr><td>L_{Aeq adj,T}</td><td>Background +10</td><td>Background +8</td><td>Background +5</td><td>Background +10</td><td>Background +8</td><td>Background +5</td></tr><tr><td>MaxL_{pA,T}</td><td>Background +15</td><td>Background +13</td><td>Background +10</td><td>Background +15</td><td>Background +13</td><td>Background +10</td></tr></table>						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 a nuisance sensitive place						L _{Aeq adj,T}	Background +5	Background +3	Background +0	Background +5	Background + 3	Background + 0	MaxL _{pA T}	Background +10	Background +8	Background +5	Background +10	Background +8	Background +5		Noise measured at a commercial place						L _{Aeq adj,T}	Background +10	Background +8	Background +5	Background +10	Background +8	Background +5	MaxL _{pA,T}	Background +15	Background +13	Background +10	Background +15	Background +13	Background +10
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	Associated monitoring requirements 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.						
N4	Generation of substantial low frequency noise is not permitted.						
N5	Blasting activities must not exceed the limits for peak particle velocity and air blast overpressure in Table 3 - <i>Blasting noise</i> limits when measured at any sensitive place or commercial place in accordance with the associated monitoring requirements. Table 3 - 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.	Blasting criteria	Blasting limits	Airblast overpressure	115 dB (Linear) Peak for 9 out of 10 consecutive blasts initiated and not greater than 120 dB (Linear) Peak at any time.	Ground vibration peak particle velocity	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.
Blasting criteria	Blasting limits						
Airblast overpressure	115 dB (Linear) Peak for 9 out of 10 consecutive blasts initiated and not greater than 120 dB (Linear) Peak at any time.						
Ground vibration peak particle velocity	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.						
N6	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.						
N7	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.						
N8	When required by the administering authority , a blast monitoring program must be developed and implemented to monitor compliance with <i>Table 3 - Blasting noise</i> limits at any sensitive place or commercial place .						

Part 3 – Conditions for mobile and temporary regulated waste transport

Environmentally Relevant Activities	Location
ERA 57-transporting regulated waste other than end-of-life tyres	Mobile and temporary within the state of Queensland

The environmentally relevant activity(ies) conducted at the locations described above for this part must be conducted in accordance with the following site specific conditions.

Agency interest: General	
Condition number	Condition
G11	All vehicles used to transport regulated waste must be registered with the administering authority .
Agency interest: Waste	
Condition number	Condition
WS2	The regulated waste being transported must be compatible with the container.
WS3	Incompatible wastes must not be mixed in the same container or waste storage area.
WS4	Regulated waste is not permitted to be released from any vehicle or any container transported by that vehicle other than at a proper and appropriate place that can lawfully accept such waste.
WS5	The following regulated waste/s must not be transported under this approval: 1. Asbestos and Lead; 2. Infectious wastes and Cytotoxic wastes; 3. Equipment contaminated with Infectious and/or Cytotoxic wastes.

Part 4 – Conditions for Lot 45 Plan HR1600

Environmentally Relevant Activities	Location
ERA 16-2(b) — extracting, other than by dredging, in a year 100,000t to 1,000,000t of material; and ERA 16-3(b) — screening, in a year, 100,000 to 1,000,000t of material	Lot 45 Plan HR1600 Abbot Point Road, Bowen

The environmentally relevant activity(ies) conducted at the locations described above for this part must be conducted in accordance with the following site specific conditions.

Agency interest: Noise							
Condition number	Condition						
N9	Blasting activities must not exceed the limits for peak particle velocity and air blast overpressure in Table 4 - <i>Blasting noise</i> limits when measured at any sensitive place or commercial place in accordance with the associated monitoring requirements. Table 4 - 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 - 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. - All monitoring devices must be correctly calibrated and maintained.	Blasting criteria	Blasting limits	Airblast overpressure	115 dB (Linear) Peak for 9 out of 10 consecutive blasts initiated and not greater than 120 dB (Linear) Peak at any time.	Ground vibration peak particle velocity	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.
Blasting criteria	Blasting limits						
Airblast overpressure	115 dB (Linear) Peak for 9 out of 10 consecutive blasts initiated and not greater than 120 dB (Linear) Peak at any time.						
Ground vibration peak particle velocity	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.						
N10	Blasting must be carried out in accordance with the current edition of the administering authority's <i>Noise and vibration from blasting guideline</i> and with <i>Australian Standard 2187</i> .						
N11	Unless prior approval is obtained from the administering authority: blasting is only permitted during the hours of 9 am to 3 pm Monday to Friday, and from						

	9 am to 1 pm on Saturdays. 2. blasting is not permitted at any time on Sundays or public holidays.																				
N12	When required by the administering authority , a blast monitoring program must be developed and implemented to monitor compliance with <i>Table 4 - Blasting noise limits</i> at any sensitive place or commercial place .																				
N13	Noise from the activity must not exceed the levels identified in <i>Table 5 - Noise limits</i> when measured in accordance with the associated monitoring requirements. Table 5 - Noise limits <table><tr><th></th><th>7am–6pm</th><th>6pm–10pm</th><th>10pm–7am</th></tr><tr><td></td><td colspan="3">Noise measured at the sensitive place*</td></tr><tr><td>L_{Amax} adj, T</td><td>Background noise level plus 5 dB(A)</td><td>Background noise level plus 5 dB(A)</td><td>Background noise level plus 3 dB(A)</td></tr><tr><td></td><td colspan="3">Noise measured at the commercial place</td></tr><tr><td>L_{Amax} adj, T</td><td>Background noise level plus 10 dB(A)</td><td>Background noise level plus 10 dB(A)</td><td>Background noise level plus 8 dB(A)</td></tr></table> Associated monitoring requirements 1. All monitoring devices must be calibrated and maintained according to the manufacturer’s instruction manual. 2. Any monitoring must be in accordance with the most recent version of the administering authority’s <i>Noise Measurement Manual</i>. 3. Any monitoring of noise emissions from the activity must be undertaken when the activity is in operation		7am–6pm	6pm–10pm	10pm–7am		Noise measured at the sensitive place*			L _{Amax} adj, T	Background noise level plus 5 dB(A)	Background noise level plus 5 dB(A)	Background noise level plus 3 dB(A)		Noise measured at the commercial place			L _{Amax} adj, T	Background noise level plus 10 dB(A)	Background noise level plus 10 dB(A)	Background noise level plus 8 dB(A)
	7am–6pm	6pm–10pm	10pm–7am																		
	Noise measured at the sensitive place*																				
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	Noise measured at the commercial place																				
L _{Amax} adj, T	Background noise level plus 10 dB(A)	Background noise level plus 10 dB(A)	Background noise level plus 8 dB(A)																		

Part 5 – Conditions for Lot 26 Plan SP220411

Environmentally Relevant Activities	Location
ERA 16-2(b) — extracting, other than by dredging, in a year 100,000t to 1,000,000t of material; and ERA 16-3(b) — screening, in a year, 100,000 to 1,000,000t of material	Lot 26 Plan SP220411 Abbot Point Quarry, Access Road, Abbot Point
	Lot 44 Plan HR1599 Abbot Point Road, Bowen

The environmentally relevant activity(ies) conducted at the locations described above for this part must be conducted in accordance with the following site specific conditions.

Agency interest: General							
Condition number	Condition						
G12	A minimum buffer distance of 50m must be maintained between extraction areas and the high banks of any watercourse, lake or wetland.						
Agency interest: Noise							
Condition number	Condition						
N14	Blasting activities must not exceed the limits for peak particle velocity and air blast overpressure in <i>Table 6 - Blasting noise limits</i> when measured at any sensitive place or commercial place in accordance with the associated monitoring requirements. Table 6 - 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>	Blasting criteria	Blasting limits	Airblast overpressure	115 dB (Linear) Peak for 9 out of 10 consecutive blasts initiated and not greater than 120 dB (Linear) Peak at any time.	Ground vibration peak particle velocity	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.
Blasting criteria	Blasting limits						
Airblast overpressure	115 dB (Linear) Peak for 9 out of 10 consecutive blasts initiated and not greater than 120 dB (Linear) Peak at any time.						
Ground vibration peak particle velocity	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.						

	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.
N15	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.
N16	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.
N17	When required by the administering authority, a blast monitoring program must be developed and implemented to monitor compliance with <i>Table 6 - Blasting noise limits</i> at any sensitive place or commercial place.

Part 6 – Conditions for Lot 5 Plan K1242 and adjacent to Lot 5 Plan K1242

Environmentally Relevant Activities	Location
ERA 16-1(b) — dredging, in a year, 10,000t to 100,000t of material; and	Adjacent to Lot 5 on K1242 Millers Lane, Bowen
ERA 16-3(a) — screening, in a year, 5,000t to 100,000t of material	Lot 5 Plan K1242 Millers Lane, Bowen

The environmentally relevant activity(ies) conducted at the locations described above for this part must be conducted in accordance with the following site specific conditions.

Agency interest: General	
Condition number	Condition
G13	Activities under this environmental authority must be conducted in accordance with the following limitations: 1. The amount of material dredged per year must not exceed 100,000 tonnes per annum; 2. The amount of material screened per year must not exceed 100,000 tonnes per annum.
Agency interest: Land	
Condition number	Condition
L4	With the exception of floating equipment, all machinery and ancillary equipment for the activity must be stored outside the high banks of any watercourse.

Part 7 – Conditions for Lot 1 Plan SP115943

Environmentally Relevant Activities	Location
ERA 16-2(b) — extracting, other than by dredging, in a year 100,000t to 1,000,000t of material; and ERA 16-3(b) — screening, in a year, 100,000 to 1,000,000t of material	Lot 1 Plan SP115943 Armuna Holdings Bowen Development Road, Bowen

The environmentally relevant activity(ies) conducted at the locations described above for this part must be conducted in accordance with the following site specific conditions.

Agency interest: General																																
Condition number	Condition																															
G14	Activities under this environmental authority must be conducted in accordance with the following limitations: 1. Extraction must only occur within a. Extraction Area 1 in Appendix 2, as bounded by the following GPS coordinates; and <table><tr><th>Point No</th><th>Latitude</th><th>Longitude</th></tr><tr><td>1</td><td>-20.13869</td><td>148.05765</td></tr><tr><td>2</td><td>-20.13765</td><td>148.05880</td></tr><tr><td>3</td><td>-20.13871</td><td>148.06058</td></tr><tr><td>4</td><td>-20.14054</td><td>148.05991</td></tr><tr><td>5</td><td>-20.14068</td><td>148.05934</td></tr><tr><td>6</td><td>-20.13947</td><td>148.05782</td></tr></table> b. Extraction Area 2 in Appendix 2, as bounded by the following GPS coordinates; <table><tr><th>Point No</th><th>Latitude</th><th>Longitude</th></tr><tr><td>1</td><td>-20.13931</td><td>148.05396</td></tr><tr><td>2</td><td>-20.14052</td><td>148.05510</td></tr></table>		Point No	Latitude	Longitude	1	-20.13869	148.05765	2	-20.13765	148.05880	3	-20.13871	148.06058	4	-20.14054	148.05991	5	-20.14068	148.05934	6	-20.13947	148.05782	Point No	Latitude	Longitude	1	-20.13931	148.05396	2	-20.14052	148.05510
Point No	Latitude	Longitude																														
1	-20.13869	148.05765																														
2	-20.13765	148.05880																														
3	-20.13871	148.06058																														
4	-20.14054	148.05991																														
5	-20.14068	148.05934																														
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	<table><tr><td>3</td><td>-20.14095</td><td>148.05450</td></tr><tr><td>4</td><td>-20.14198</td><td>148.05522</td></tr><tr><td>5</td><td>-20.14297</td><td>148.05333</td></tr><tr><td>6</td><td>-20.142217</td><td>148.05184</td></tr><tr><td>7</td><td>-20.14055</td><td>148.0516185</td></tr></table> 2. The amount of material extracted per year must not exceed 600,000 tonnes per annum; 3. The amount of material screened per year must not exceed 600,000 tonnes per annum; 4. The depth of extraction in Extraction Area 2 must not exceed 64 metres AHD.	3	-20.14095	148.05450	4	-20.14198	148.05522	5	-20.14297	148.05333	6	-20.142217	148.05184	7	-20.14055	148.0516185																					
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4	-20.14198	148.05522																																			
5	-20.14297	148.05333																																			
6	-20.142217	148.05184																																			
7	-20.14055	148.0516185																																			
Agency interest: Noise																																					
Condition number	Condition																																				
N19	Noise from the activity must not exceed the levels identified in <i>Table 7- Noise limits</i> when measured in accordance with the associated monitoring requirements. Table 7- Noise limits <table><tr><td></td><td colspan="3">Monday to Saturday</td><td colspan="3">Sunday and Public Holidays</td></tr><tr><td></td><td>7am–6pm</td><td>6pm–10pm</td><td>10pm–7am</td><td>7am–6pm</td><td>6pm–10pm</td><td>10pm–7am</td></tr><tr><td></td><td colspan="6">Noise measured at the sensitive place*</td></tr><tr><td>L_{Aeq}, adj, T</td><td>42</td><td>35</td><td>30</td><td>42</td><td>35</td><td>30</td></tr><tr><td>Max L_{pA} T</td><td>N/A</td><td>N/A</td><td>47</td><td>N/A</td><td>N/A</td><td>47</td></tr></table> * A residential dwelling at the location is not considered to be a sensitive place, so long as a contractual arrangement exists between you and the owner of the dwelling Associated monitoring requirements 1. All monitoring devices must be calibrated and maintained according to the manufacturer’s instruction manual. 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			Monday to Saturday			Sunday and Public Holidays				7am–6pm	6pm–10pm	10pm–7am	7am–6pm	6pm–10pm	10pm–7am		Noise measured at the sensitive place*						L _{Aeq} , adj, T	42	35	30	42	35	30	Max L _{pA} T	N/A	N/A	47	N/A	N/A	47
	Monday to Saturday			Sunday and Public Holidays																																	
	7am–6pm	6pm–10pm	10pm–7am	7am–6pm	6pm–10pm	10pm–7am																															
	Noise measured at the sensitive place*																																				
L _{Aeq} , adj, T	42	35	30	42	35	30																															
Max L _{pA} T	N/A	N/A	47	N/A	N/A	47																															

	operation.						
N20	Generation of substantial low frequency noise is not permitted.						
N21	Blasting activities must not exceed the limits for peak particle velocity and air blast overpressure in <i>Table 8 - Blasting noise limits</i> when measured at any sensitive place or commercial place in accordance with the associated monitoring requirements. Table 8 - 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>5 mm/s peak particle velocity for 9 out of 10 consecutive blasts and not greater than 10 mm/s peak particle velocity at any time.</td></tr> </table> Associated monitoring requirements - Monitoring must be performed in accordance with the most recent edition of the administering authority's <i>Noise and Vibration from Blasting guideline</i> and <i>Noise Measurement Manual</i> and any relevant <i>Australian Standard</i>. - All monitoring devices must be calibrated and maintained according to the manufacturer's instruction manual.	Blasting criteria	Blasting limits	Airblast overpressure	115 dB (Linear) Peak for 9 out of 10 consecutive blasts initiated and not greater than 120 dB (Linear) Peak at any time.	Ground vibration peak particle velocity	5 mm/s peak particle velocity for 9 out of 10 consecutive blasts and not greater than 10 mm/s peak particle velocity at any time.
Blasting criteria	Blasting limits						
Airblast overpressure	115 dB (Linear) Peak for 9 out of 10 consecutive blasts initiated and not greater than 120 dB (Linear) Peak at any time.						
Ground vibration peak particle velocity	5 mm/s peak particle velocity for 9 out of 10 consecutive blasts and not greater than 10 mm/s peak particle velocity at any time.						
N22	Blasting must be carried out in accordance with the current edition of the administering authority's <i>Noise and vibration from blasting guideline</i> and with Australian Standard 2187.						
N23	Unless prior approval is obtained from the administering authority: blasting is only permitted during the hours of 9am to 3pm Monday to Friday, and from 9am to 1pm on Saturdays. - blasting is not permitted at any time on Sundays or public holidays.						
N24	When required by the administering authority , a blast monitoring program must be developed and implemented to monitor compliance with <i>Table 8- Blasting noise limits</i> at any sensitive place or commercial place .						
Agency interest: Water							
Condition number	Condition						

WT6	The only contaminants to be released to surface waters are settled or treated stormwater runoff to waters in accordance with <i>Table 9 - Surface water release limits</i> and the associated monitoring requirements. Table 9 - Surface water release limits <table><tr><th>Release Point(s) Description Latitude Longitude</th><th>Quality characteristic (units)</th><th>Limit *</th><th>Limit Type</th><th>Minimum Monitoring Frequency</th></tr><tr><td>Catchment 1 release point -20.13977, 148.05979</td><td rowspan="2">Dissolved Oxygen (% saturation)</td><td rowspan="2">85–110</td><td rowspan="2">Range</td><td rowspan="5">Upon release</td></tr><tr><td>Catchment 2 release point -20.13686, 148.05732</td></tr><tr><td>Catchment 3 release point - 20.13694, 148.05943</td><td rowspan="2">Suspended Solids (mg/L)</td><td rowspan="2">13</td><td rowspan="2">Maximum</td></tr><tr><td>Catchment 4 release point - 20.13671, 148.06085</td></tr><tr><td>Catchment 5 release point: -20.1395, 148.0542</td><td>pH</td><td>6.5–8.0</td><td>Range</td></tr><tr><td></td><td>Conductivity (µS/cm)</td><td>1020</td><td>Maximum</td></tr></table> <i>* Decimal degrees to be provided to a minimum of 4 decimal places.</i> Associated monitoring requirements - Monitoring must be in accordance with the methods prescribed in the current edition of the administering authority's <i>Monitoring and Sampling Manual</i>. - Water and sediment samples must be representative of the general condition of the water body or sediments. - All determinations must employ analytical practical quantification limits of sufficient sensitivity to enable comparisons to be made against water quality objectives/triggers/limits relevant to the particular water or sediment quality characteristic. - Monitoring must be undertaken during a release and at the frequency stated. - All monitoring devices must be calibrated and maintained according to the manufacturer's instruction manual.	Release Point(s) Description Latitude Longitude	Quality characteristic (units)	Limit *	Limit Type	Minimum Monitoring Frequency	Catchment 1 release point -20.13977, 148.05979	Dissolved Oxygen (% saturation)	85–110	Range	Upon release	Catchment 2 release point -20.13686, 148.05732	Catchment 3 release point - 20.13694, 148.05943	Suspended Solids (mg/L)	13	Maximum	Catchment 4 release point - 20.13671, 148.06085	Catchment 5 release point: -20.1395, 148.0542	pH	6.5–8.0	Range		Conductivity (µS/cm)	1020	Maximum
Release Point(s) Description Latitude Longitude	Quality characteristic (units)	Limit *	Limit Type	Minimum Monitoring Frequency																					
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Catchment 5 release point: -20.1395, 148.0542	pH	6.5–8.0	Range																						
	Conductivity (µS/cm)	1020	Maximum																						
WT7	The release to waters permitted under Condition WT6 must not contain any other properties at a concentration capable of causing environmental harm.																								

Part 8 – Conditions for mobile and temporary screening

Environmentally Relevant Activities	Location
ERA 16-3(a) Screening, in a year, the following quantity of material -more than 5,000t but not more than 100,000t	Mobile and temporary within the state of Queensland

The environmentally relevant activity(ies) conducted at the locations described above for this part must be conducted in accordance with the following site specific conditions.

Agency interest: General	
Condition number	Condition
G15	A minimum buffer distance of 50m must be maintained between the activity and the high banks of any watercourse, lake or wetland.
Agency interest: Land	
Condition number	Condition
L5	Acid sulfate soils, acid producing rock and marine sediments must not be processed.
L6	Contaminants must not be released to land from the activity.

Definitions

Key terms and/or phrases in this environmental authority are defined in this section. 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 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 EA requirement and can give authoritative assessment, advice and analysis in relation to the EA requirements using the relevant protocols, standards, methods or literature.

Aqueous waste means any aqueous waste including process water, water that has otherwise been used in the carrying out of the activity or sewage, whether or not the waste has been treated, but excluding stormwater and water used for dust suppression that has been treated to remove contaminants.

Audible noise means noise that can be clearly heard by an individual who is an occupier at a place listed in Condition N25.

Background means noise, measured in the absence of the noise under investigation, as $L_{A\ 90, adj, T}$ 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*.

Disturbed areas includes areas:

1. that are susceptible to erosion;
2. that are contaminated by the activity; and/or
3. upon which stockpiles of soil or other materials are located.

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

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

Environmental value –

- a quality or physical characteristic of the environment that is conducive to ecological health or public amenity or safety; or
- another quality of the environment identified and declared to be an environmental value under an

environmental protection policy or regulation.

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

Groundwater means water that occurs naturally in, or is introduced artificially into, an aquifer.

Land means any land, whether above or below the ordinary high-water mark at spring tides (i.e. includes **tidal land**).

L_{Aeq, adj, T} means the adjusted A weighted equivalent continuous sound pressure level measured 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.

L_{Amax adj, T} means the maximum A-weighted sound pressure level measured 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

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

Maintenance as defined in Schedule 6 of the *Transport Infrastructure Act 1994*.

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.

Minimise means by taking all reasonable and practical measures to minimise the adverse effect having regard to the following matters:

- a) the nature of the harm or potential harm
- b) the sensitivity of the receiving environment
- c) the current state of technical knowledge for the activity
- d) the likelihood of successful application of different measures that might be taken to minimise the adverse effects
- e) the financial implications of the different measures as they would relate to the type of activity
- f) 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.

Nominated delegate means another government agency that provides services to the **administering authority**.

Noxious means harmful or injurious to health or physical well-being.

Nuisance sensitive place includes:

- within or outside of a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises
- within or outside of a motel, hotel or hostel

- within or outside of a kindergarten, school, university or other educational institution
- within or outside of a medical centre or hospital
- within a protected area under the *Nature Conservation Act 1992*, within a marine park under the *Marine Parks Act 1992* or a world heritage area
- within a public thoroughfare, park or gardens
- within or outside of 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.

Offensive means causing offence or displeasure; is unreasonably disagreeable to the senses; disgusting, nauseous or repulsive.

Prescribed water contaminants means contaminants listed within Schedule 9 of the Environmental Protection Regulation 2008.

Priority ports

Each of the following ports is a priority port as per the *Sustainable Ports Development Act 2015*—

- (a) Port of Abbot Point;
- (b) Port of Gladstone;
- (c) the ports of Hay Point and Mackay;
- (d) Port of Townsville.

Rail transport infrastructure means as defined in Schedule 6 of the *Transport Infrastructure Act 1994*.

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:

1. deposit, discharge, emit or disturb the contaminant
2. cause or allow the contaminant to be deposited, discharged, emitted or disturbed
3. fail to prevent the contaminant from being deposited, discharged emitted or disturbed
4. allow the contaminant to escape
5. fail to prevent the contaminant from escaping.

Restricted area means an area that is within the Great Barrier Reef World Heritage Area but outside the Commonwealth marine park.

Note—See the Commonwealth *Marine Park Act* for prohibitions relating to the Commonwealth marine park and Great Barrier Reef Region under that Act.

Road as defined in section 93 of the Land Act 1994.

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 park or garden; or
7. for noise, a place defined as a sensitive receptor for the purposes of the Environmental Protection (Noise) Policy 2008.

Spring the land to which water rises naturally from below the ground and the land over which the water then flows.

Stormwater that is not contaminated by the activity includes stormwater runoff from external or undisturbed catchments.

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 200 Hz. It includes any noise emission likely to cause an overall sound pressure level at a sensitive place exceeding 55 dB(Z).

Tidal land means land that is submerged at any time by tidal water.

You means the holder of the environmental authority.

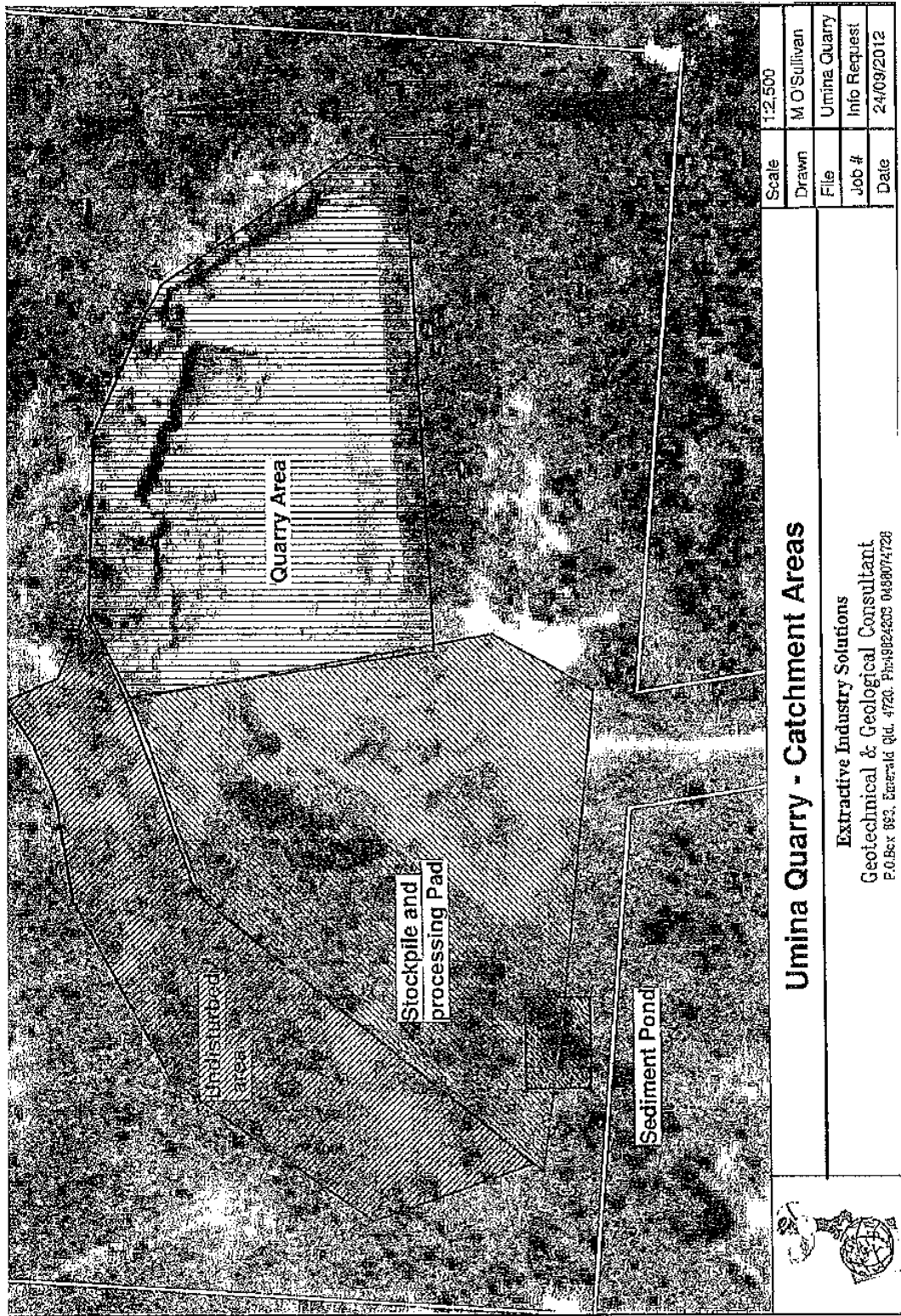
Vibration is the oscillating or periodic motion of a particle, group of particles, or solid object about its equilibrium position.

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.

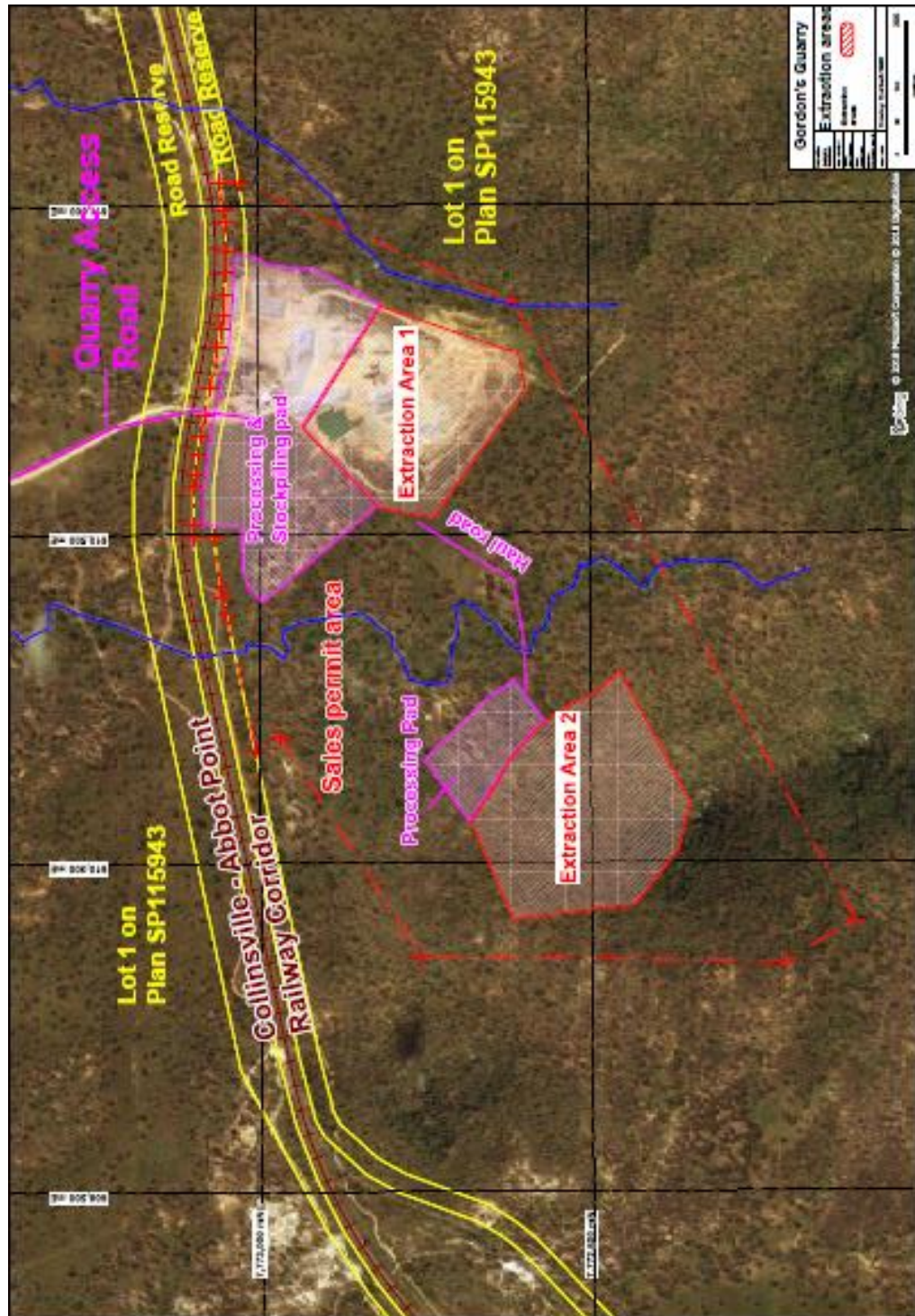
Watercourse as defined in Section 8, Schedule 12 of the Environmental Protection Regulation 2008.

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.

Appendix 1



Appendix 2



END OF ENVIRONMENTAL AUTHORITY