

Permit

Environmental Protection Act 1994

Environmental authority EPPR00575213

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

Environmental authority number: EPPR00575213

Environmental authority takes effect on 17 December 2020

Environmental authority holder(s)

Name(s)	Registered address
HOLCIM (AUSTRALIA) PTY LTD	Level 7 799 Pacific Highway CHATSWOOD NSW 2067 Australia

Environmentally relevant activity and location details

Environmentally relevant activity/activities	Location(s)
ERA 16 - Extraction and Screening 2: Extracting, other than by dredging, in a year, the following quantity of material (c) more than 1,000,000t	Lot 900 on SP256170, Lot 1 on RP207372, Lot 1 RP15910, Lot 2 on RP174510, Lot 2 on RP207372, Lot 5 on RP15911, Lot 5 on RP815163, Lot 51 on WD1009, Lot 58 on W31548, Lot 69 on RP802362, Lot 7 on RP815163, Lot 71 on RP865173, Lot 88 on RP865173
ERA 16 - Extraction and Screening 3: Screening, in a year, the following quantity of material (c) more than 1,000,000t	Lot 900 on SP256170, Lot 1 on RP207372, Lot 1 RP15910, Lot 2 on RP174510, Lot 2 on RP207372, Lot 5 on RP15911, Lot 5 on RP815163, Lot 51 on WD1009, Lot 58 on W31548, Lot 69 on RP802362, Lot 7 on RP815163, Lot 71 on RP865173, Lot 88 on RP865173
ERA 33 - Crushing, grinding, milling or screening more than 5,000t of material in a year	Lot 900 on SP256170, Lot 1 on RP207372, Lot 1 RP15910, Lot 2 on RP174510, Lot 2 on RP207372, Lot 5 on RP15911, Lot 5 on RP815163, Lot 51 on WD1009, Lot 58 on W31548, Lot 69 on RP802362, Lot 7 on RP815163, Lot 71 on RP865173, Lot 88 on RP865173
ERA 54 - Mechanical waste reprocessing 1: Operating a facility for receiving and mechanically reprocessing, in a year, more than 5,000t of inert, non-putrescible waste or green waste only	Lot 900 on SP256170, Lot 1 on RP207372, Lot 1 RP15910, Lot 2 on RP174510, Lot 2 on RP207372, Lot 5 on RP15911, Lot 5 on RP815163, Lot 51 on WD1009, Lot 58 on W31548, Lot 69 on RP802362,

Environmental authority

Environmentally relevant activity/activities	Location(s)
	Lot 7 on RP815163, Lot 71 on RP865173, Lot 88 on RP865173

Additional information for applicantsEnvironmentally 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*

Environmental authority

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.

Tristan Roberts
Department of Environment and Science
Delegate of the administering authority
Environmental Protection Act 1994

Enquiries:
Extraction, Energy and Chemical Industries
Assessment
Department of Environment and Science

Phone: 1300 130 372
Email: palm@des.qld.gov.au

Date issued: 17 December 2020

Obligations under the *Environmental Protection Act 1994*

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

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

Conditions of environmental authority

Agency interest: General	
Condition number	Condition
G1	Activities under this environmental authority must be conducted with the following limitations: 1. The only wastes or materials permitted to be reprocessed (i.e. crushed, milled, screened, sorted, shredded or ground) are: • hardened returned concrete from concrete batching plants; • solid concrete washout waste from concrete batching plants; or • recycled aggregates consisting of waste bricks, pavers, ceramics, railway ballast, hardened concrete, and recovered pavement material.
G2	Maintenance of Plant and Equipment The registered operator of this environmental authority must: i) maintain all plant and equipment relating to carrying out of the environmentally relevant activity in a proper and efficient condition; and ii) operate all plant and equipment relating to the carrying out of the environmentally relevant activities in a proper and efficient manner For example, maintain and operate all plant and equipment in compliance with any applicable manufacturer's specifications or recommendations. In this condition, "plant and equipment relating to the carrying out of the environmentally relevant activities" means: i) plant and equipment used to carry out the environmentally relevant activities themselves, for example, machinery used for extraction, screening and concrete batching; ii) plant and equipment used to prevent and/or minimise the likelihood of environmental harm being caused by the carrying out of the environmentally relevant activities, for example, plant and equipment used for the purposes of dust control, stormwater management and erosion control; iii) structures and devices used to contain escapes of contaminants which may result from the carrying out of the environmentally relevant activities, for example, bunding; iv) structures and devices used to store, handle, treat and dispose of waste which may result from the carrying out of the environmentally relevant activities, for example, settlement ponds; v) backup systems that act in the event of failure of a primary system.
G3	Display of Environmental Authority A copy of this environmental authority must be kept in a location readily accessible to personnel carrying out the activity at each of the approved places specified in this environmental authority.
G4	Records All information and records that are required by the conditions of the Environmental Authority must be kept for a minimum five (5) years and must be provided to the administering authority

	upon request.
G5	Alterations No change, replacement or operation of any plant or equipment is permitted if the change, replacement or operation of the plant or equipment increases, or is likely to substantially increase, the risk of environmental harm above that expressly provided by this environmental authority. An example of a substantial increase in the risk of environmental harm is an increase of ten percent (10%) or more in the quantity of the contaminant to be released into the environment.
G6	Calibration All instruments and devices used for the measurement or monitoring of any parameter under any condition of this environmental authority must be appropriately calibrated, operated and maintained.
G7	Integrated Environmental Management System The registered operator of this environmental authority must develop and implement an Integrated Environmental Management System (IEMS) which provides for the effective and appropriate management by the registered operator of this environmental authority of the actual and potential environmental impacts resulting from the carrying out of the environmentally relevant activities.
G8	The Integrated Environmental Management System must provide for at least the following functions: i) the monitoring of releases of contaminants into the environment and an environmental assessment of the releases; ii) staff training and awareness of environmental issues; iii) waste prevention treatment and disposal; iv) a program for continuous improvement; v) reporting arrangements on the effectiveness of the environmental management of the activities.
G9	The registered operator of this environmental authority must not implement the Integrated Environmental Management System or amend the Integrated Environmental Management System where such implementation or amendment would result in a contravention of any condition of this environmental authority.
G10	An up to date copy of the Integrated Environmental Management System must be kept at each of the approved place(s) specified in this environmental authority.
G11	Site Rehabilitation and Decommissioning Report(s) At least three (3) months prior to ceasing carrying out the environmentally relevant activities at any of the approved place(s), the registered operator of this environmental authority must prepare and submit a Site Rehabilitation and Decommissioning Report for the relevant approved place(s) detailing practices and measures that will implemented to prevent or minimise environmental harm occurring during and after the decommissioning of the environmentally relevant activities.

G12	The Site Rehabilitation and Decommissioning Report(s) for each of the approved place(s) must address at least the following matters: i) description of the use that is ultimately proposed for the site; and ii) any proposed revegetation of the site, including ground preparation, species used, methods, density, irrigation, weed control, use of local species where appropriate, staging and timing of revegetation works; and iii) the proposed landform design to be implemented, include design profile and batter slopes; and iv) nature of materials utilised and techniques to be employed for any proposed backfilling of extracted areas such as filling, compaction, topsoiling, overburden return and any other soil amelioration leading to vegetation establishment; and v) stability of the final landform, including assessment of any changes to the flood gradient, assessment of the stability of slopes and susceptibility to soils slumping; and vi) stability of the final land surface (i.e. erosion control) including assessment of susceptibility of soils to erosion and anticipated erosion control measures; and vii) provision and protection of riparian and wildlife corridor widths and any appropriate linkages to other habitat areas; and viii) identification of any habitat areas that have been formed either directly or indirectly as a result of the extractive works or associated activities that may be adversely affected by decommissioning works, for example, any habitat pools upstream and downstream of a weir or causeway, and measures to protect these areas; and ix) potential long-term impacts on environmental values and measures proposed to address these, for example, restoration of desired environmental values; and x) expected short term and long term water quality within any lakes or ponds, with reference to likely uses of the waters, environmental values, appropriate water quality criteria, proposed remedial measures in the event that criteria are not met, and who will be responsibility for maintenance of the waterbodies in the long term; and xi) a proposed maintenance program, including maintenance of erosion control measures, vegetation being established (e.g. watering, weed control, fencing, site security) and water quality of any lakes or ponds; and xii) in the event that actual or potential acid sulfate soils are present, appropriate management measures for the soils including avoidance, submergence and treatment; and xiii) prevention or minimisation of windblown dust from overburden stockpiles, remnant raw material stockpiles and rehabilitation earthworks; and xiv) prevention or treatment of the release of contaminated stormwater runoff from remnant material stockpiles, disturbed areas and any lakes or ponds created to the bed or banks of any watercourse; and xv) a proposed monitoring program, for example, plant growth, plant health, stormwater quality, water body water quality, erosion protection measures, stability; and xvi) records to be kept and reporting of outcomes, including the monitoring program results and rehabilitation outcomes achieved; and xvii) the staging and timing of the expected works; and - xviii) any bonds kept for rehabilitation, for example, by the local authority; and xix) submission of written advice to the administering authority within fourteen (14) days of completion of site rehabilitation and decommissioning works.
-----	---

G13	Rehabilitation The registered operator of this environmental authority must rehabilitate the approved place(s) in a manner such that: i) any revegetation or landscaping must be undertaken using native species of vegetation endemic to the area are planted and established; and ii) potential for erosion of the site is minimised; and iii) the quality of stormwater released from the site is such that releases of suspended solids, and turbidity are not likely to cause environmental harm in the receiving waters; and iv) the likelihood of environmental nuisance being caused by release of dust is minimised; and v) the final landform is stable and not subject to stumping.
G14	Rehabilitation of disturbed areas must take place progressively as stages of works are finalised and new areas of extraction are commenced within the approved place(s). The registered operator of this environmental authority must keep appropriate records of rehabilitation measures implemented including taking of photographs demonstrative of rehabilitation achieved and submit a report to the administering authority with each annual return detailing the outcomes of the rehabilitation program in the preceding twelve (12) months.
G15	In developing and implementing the Site Rehabilitation and Decommissioning Report, use may be made of any relevant and appropriate plans, procedures, quality assurance manuals or other relevant documents previously prepared.
Agency interest: Air	
Condition number	Condition
A1	Dust and Particulate Emissions - General Emissions of dust and/or particulate matter resulting from the environmentally relevant activities that will or may cause an environmental nuisance must not be released beyond the boundaries of the approved place(s).
A2	An environmental nuisance caused by dust and/or particulate matter includes a release to any dust sensitive place that exceeds either of the following limits at that place: 1. Dust deposition of 120 milligrams per square metre per day, when monitored in accordance with Australian Standard AS 3580.10 of 1991 or any later version of this Australian Standard; or 2. A concentration of particulate matter with an aerodynamic diameter of less than 10 micrometre (µm) (PM₁₀) suspended in the atmosphere of 150 micrograms per cubic metre over a twenty-four (24) hour averaging time, at a dust sensitive place downwind of the approved place(s), when monitored in accordance with: i) Australian Standard AS 3580.9.6 "Ambient air - Particulate matter - Determination of suspended particulate PM₁₀ high-volume sampler with size-selective inlet - Gravimetric method" or any later version of this Australian Standard; or ii) any alternative method of monitoring PM₁₀ which may be permitted by the "Air Quality Sampling Manual" as published from time to time by the administering authority.

A3	Condition (A2) applies if a complaint is made to the administering authority or the licensee about emissions of dust and/or particulate matter resulting from the environmentally relevant activities.
Agency interest: Water	
Condition number	Condition
WA1	Release of Contaminants to Waters Contaminants that will or may cause environmental harm must not be directly or indirectly released from the approved place to any waters or the bed and banks of any waters except as permitted under this environmental authority.
Agency interest: Stormwater Management	
Condition number	Condition
SW1	Chemical/Hydrocarbon Storage Bunding All chemical tank storages and hydrocarbon tank storages must be bunded so that the capacity of the bund is sufficient to contain at least one hundred and ten percent (110%) of a single tank and/or one hundred percent (100%) of the largest storage tank plus ten percent (10%) of the second largest tank within the bund.
SW2	All chemical drum storages and hydrocarbon drum storages must be bunded so that the capacity of the bund is sufficient to contain at least one hundred percent (100%) of the largest storage drum plus ten percent (10%) of the second largest storage drum within the bund.
SW3	All bunding must be constructed of materials that provide an impervious barrier to the materials stored.
SW4	All bunded areas must be roofed where practicable.
SW5	Where it is impractical to completely roof a bunded area the registered operator of this environmental authority must ensure that any stormwater captured within the bund is free from contaminants or waste prior to any release.
SW6	All empty drums must be stored on a concrete hardstand area with their closures in place.
SW7	Stormwater Runoff All contaminated stormwater/wastewater runoff from the stockpile(s) and the areas utilised for the operation of the stockpile(s), internal roadways and processing areas must be collected and treated in the settlement ponds.
SW8	Stormwater/wastewater collected in the settlement pond(s) must be reused, as far as reasonably practicable, on the approved place in a manner, which does not or is not likely to harm the environment.

SW9	Description of Release Contaminants that will or may cause environmental harm must not be directly or indirectly released from any source on the approved place to any waters at any location other than the contaminants and sources at Release Point RI as shown in <i>Appendix 1: Schedule 1 - Water Monitoring Location</i>.												
SW10	Quality Characteristics of Contaminated Stormwater Runoff Released to Waters The release of contaminants to waters, at the sampling points specified in <i>Table – Monitoring of Contaminant Releases to Waters</i>, must comply with each of the limits specified in <i>Table – Release Quality Characteristics</i> for each quality characteristic. Table – Release Quality Characteristics <table><tr><th>QUALITY CHARACTERISTIC</th><th>DISCHARGE LIMIT</th><th>LIMIT TYPE</th></tr><tr><td>pH (pH Units)</td><td>6.5 – 9.0</td><td>Range</td></tr><tr><td>Suspended Solids (mg/L)</td><td>50.0</td><td>Maximum</td></tr><tr><td>Turbidity (NTU)</td><td>20.0</td><td>Maximum</td></tr></table>	QUALITY CHARACTERISTIC	DISCHARGE LIMIT	LIMIT TYPE	pH (pH Units)	6.5 – 9.0	Range	Suspended Solids (mg/L)	50.0	Maximum	Turbidity (NTU)	20.0	Maximum
QUALITY CHARACTERISTIC	DISCHARGE LIMIT	LIMIT TYPE											
pH (pH Units)	6.5 – 9.0	Range											
Suspended Solids (mg/L)	50.0	Maximum											
Turbidity (NTU)	20.0	Maximum											
SW11	Settlement Ponds - General Reasonable and practicable measures must be taken to prevent short-circuiting in settlement pond(s) and system(s). a) Reasonable and practicable measures for ensuring that water does not short circuit within an individual settlement pond include: i) ensuring relatively uniform velocities through the pond; and ii) ensuring that the pond inlet and outlet are located at opposite ends of the pond along the long axis; and iii) ensuring that the ponds are periodically desludged to maintain efficiency in the settlement of solids; and iv) ensuring that sufficient capacity is available within the pond system such that stormwater flows do not flush out settled solids; and v) ensuring that there are no obstructions, such as vegetation, within the pond, that materially alters the velocities of water flowing through the different sections of the pond. b) Reasonable and practicable measures for ensuring that water does not short circuit between pond(s) includes ensuring that the banks and channels of and between ponds are maintained so as to direct the flow of water from one pond to the next and also through a sufficient number of ponds to achieve the prescribed contaminant release quality.												
SW12	Sediment collected in settlement ponds must be removed whenever the volume of the basin is reduced by thirty percent (30%), or on other occasions as required by the administering authority, such as where sediments are contaminated, or where a build-up of sediments has occurred or may occur around the outlet structure.												
SW13	All ponds used for the storage or treatment of contaminants must be constructed and maintained in a manner to ensure the stability of the pond(s) construction.												

SW14	Erosion and Sediment Control Erosion control and sediment control measures must be maintained at all times during the periods the environmentally relevant activities are carried out and during rehabilitation. Procedures must be implemented to check and, if necessary, repair or replace the erosion control and sediment control measures after each rain event likely to adversely affect the efficiency of those measures.
SW15	Maintenance of Vehicles and Plant or Equipment The maintenance and cleaning of vehicles and any other equipment or plant must be carried out in areas from where contaminants cannot be released into any waters, roadside gutter or external stormwater drainage system.
SW16	Any spillage of wastes, contaminants or other materials must be cleaned up as quickly as practicable. Such spillage must not be cleaned up by hosing, sweeping or otherwise releasing such wastes, contaminants or material to any stormwater drainage system, roadside gutter or waters.
SW17	The stormwater runoff from disturbed areas, generated from (up to and including) a 24-hour storm event with an average recurrence interval of 1 in 5 years must be managed in accordance with drawing No. 339_019 - Stormwater Management and Pumping Protocol or later revisions.
Agency interest: Land	
Condition number	Condition
L1	Release of Contaminants to Land The environmentally relevant activities must be carried out by such practicable means necessary to prevent the release or likelihood of release of contaminants to land which may cause such land to become contaminated land.
Agency interest: Acoustic	
Condition number	Condition
N1	Emission of Noise The environmentally relevant activities must be carried out by such reasonable and practicable means necessary to prevent the emission or likelihood of emission of noise that constitutes an unreasonable intrusive noise. The reasonable and practicable measures adopted for the approved place must be incorporated into the relevant procedure(s) implemented under the integrated environmental management system.

N2

- (1) Subject to condition N2(2), the emission of noise from the approved place must not result in levels greater than:
- a) if the noise complained of affects an individual's opportunity to have relaxation and/or conversation without unreasonable interference from intrusive noise, those levels specified in *Table – Noise Limits*;
 - b) if the noise complained of affects an individual's opportunity to have sleep, recreation or work within a habitable room without unreasonable interference from intrusive noise, those levels specified in *Table – Noise Limits Within Habitable Rooms*;
- (2)
- a) Condition N2(1) applies if:
 - i) the administering authority receives a complaint about noise that constitutes an unreasonable intrusive noise; or
 - ii) the administering authority considers that the complaint is not frivolous or vexatious; or
 - iii) the administering authority delivers a written request to the registered operator of this environmental authority requiring it to undertake monitoring and recording of noise levels.
 - b) Condition N2(1) applies from the close of the next business day after the notification pursuant to condition N2(2)(a)(iii).

Table – Noise Limits

NOISE LIMITS AT A NOISE SENSITIVE PLACE	
<i>Period</i>	<i>Noise Level at a Noise Sensitive Place Measured as the Adjusted Maximum Sound Pressure Level</i> <i>L_{amax adj, T}</i>
7am – 6pm	Background noise level plus 5 dB(A)
6pm – 10pm	Background noise level plus 5 dB(A)
10pm – 7am	Background noise level plus 3 dB(A)
NOISE LIMITS AT A NOISE COMMERCIAL PLACE	
<i>Period</i>	<i>Noise Level at a Commercial Place Measured as the Adjusted Maximum Sound Pressure Level</i> <i>L_{amax adj, T}</i>
7am – 6pm	Background noise level plus 10 dB(A)
6pm – 10pm	Background noise level plus 10 dB(A)
10pm – 7am	Background noise level plus 8 dB(A)

	Table – Noise Limits Within Habitable Rooms		
	NOISE LIMITS IN TERMS OF dB(A) WITHIN HABITABLE ROOMS		
	<i>Type of occupancy/activity</i>	<i>Max LPA, T (where Time period "T" equals 15 minutes)</i>	<i>LAeq, T (where Time period "T" equals 60 seconds)</i>
	Recreation areas	45	40
	Sleeping areas	45	30
	Work areas	45	40
N3	Ground-borne Vibration Crushing and Screening Operations Ground-borne vibration caused by crushing and screening operations must not exceed a peak particle velocity of five (5) millimetres per second for ground vibrations near houses, buildings or structures when measured at any of the affected premises.		
N4	The measurement required for condition number N3 must be undertaken at a distance of at least the longest dimension of the foundations of a house, building or structure away from such a house, building or structure, between that house, building or structure and the site from where the ground-borne vibration is caused.		
N5	The instrument used to measure the ground borne vibration (e.g. ground vibration transducer [or array]) must be effectively and securely coupled to the ground to ensure that it effectively measures the ground vibration from crushing and screening operations at the approved place(s) in accordance with AS2187.2 - 1993.		
N6	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 air-blast overpressure and ground borne vibrations on sensitive premises and people living in or using the surrounding area.		
N7	Noise emanating from blasting operations must not exceed an air-blast overpressure level of 115 dB (linear peak) when measured outside the most exposed part of an affected noise sensitive place or at the location specified in condition M7 for four (4) out of any five (5) consecutive blasts initiated.		
N8	Noise emanating from blasting operations must not exceed an air-blast over-pressure level of 120dB (linear peak) at any time when measured outside the most exposed part of an affected noise sensitive place or commercial place.		
N9	Ground vibration for vibrations of more than 35Hz, caused by blasting operations must not exceed a peak particle velocity of twenty five (25) millimetres per second ground vibration, peak particle velocity when measured outside the most exposed part of an affected noise sensitive place.		
N10	Ground vibration for vibrations of not more than 35 Hz, caused by blasting operations must not exceed a peak particle velocity of ten (10) millimetres per second ground vibration, peak particle velocity when measured outside the most exposed part of an affected noise sensitive place.		

N12	The instrument used to measure the ground borne vibration (e.g. ground vibration transducer [or array]) must be effectively and securely coupled to the ground to ensure that it effectively measures the ground vibration from blasting at the approved place(s) in accordance with AS2187.2 - 1993.
N13	Blasting must be conducted between the hours of 9am to 5pm, Monday to Saturday, unless otherwise directed or allowed in the interests of health or safety, by an inspector, under the provisions of the <i>Mines Regulation Act 1964</i> .
Agency interest: Waste	
Condition number	Condition
W1	Waste resulting from the conduct of the environmentally relevant activities must be stored, handled, treated and transferred, as the case may be, in a proper and efficient manner to ensure that there is no release of contaminants which is not permitted by this environmental authority.
W2	Disposal of waste resulting from the conduct of the environmentally relevant activities, other than waste water produced by screening and/or washing of extracted material, must be to a facility that is appropriate to lawfully accept such waste.
W3	The registered operator of this environmental authority must not: i) allow waste to burn or be burned at or on the approved place (with the exception of explosive bags); nor ii) remove waste from the approved place and burn such waste elsewhere other than at a facility that can lawfully burn such waste.
W4	Records of trade waste agreements must be made available to an authorised person for inspection on request.
W5	Off Site Movement of Regulated Waste Where regulated waste is removed from the approved place (other than by a release as permitted under this environmental authority), the registered operator of this environmental authority must monitor and record the following: a) the date, quantity and type of waste removed; and b) name of the waste transporter and or disposal operator that removed the waste; and c) the intended treatment and/or disposal destination of the waste. (Note: Records of documents maintained in compliance with a waste tracking system established under the <i>Environmental Protection Act 1994</i> or any other law for regulated waste will be deemed to satisfy this condition.)
W6	On Site Disposal Where waste is disposed of on the premises (other than as permitted by this environmental authority), the registered operator of this environmental authority must monitor and record: a) the date, quantity and type of waste disposed; and

	b) the location of disposal of the waste; and c) the method of disposal of the waste.
Agency interest: Self-Monitoring and Reporting	
Condition number	Condition
M1	Complaint Recording All complaints received by the registered operator of this environmental authority relating to releases of contaminants from operations at the approved place must be recorded and kept in a logbook with the following details: i) time, date and nature of complaint; and ii) type of communication (telephone, letter, personal etc.); and iii) name, contact address and contact telephone number of complainant (Note: if the complainant does not wish to be identified then "Not identified" is to be recorded); and iv) response and investigation undertaken as a result of the complaint; and v) name of person responsible for investigating complaint; and vi) action taken as a result of the complaint investigation and signature of responsible person.
M2	Noise Monitoring other than Blasting The administering authority may require the registered operator of this environmental authority to undertake monitoring and recording of noise levels if: a) the administering authority receives a complaint about noise that constitutes an unreasonable intrusive noise; and b) the administering authority considers that the complaint is not frivolous or vexatious; and c) the administering authority delivers a written request to the registered operator of this environmental authority requiring it to undertake monitoring and recording of noise levels.
M3	The following information must be recorded in conjunction with the measurement and recording of the noise: i) location of monitoring point(s); and ii) date monitoring undertaken; and iii) time monitoring commenced and ceased.
M4	Monitoring and recording the noise levels from the environmentally relevant activities must be undertaken for at least the following descriptors, characteristics and conditions: i) Time and date; ii) $L_{Amax, Adj T}$; iii) $L_{Abg, T}$ or $L_{A90, T}$; iv) $L_{AN, T}$ (where N equals statistical levels of 1, 10, 50, 90 and 99); v) $Max L_{pA T}$; vi) $L_{Aeq, T}$;

	vii) The level and frequency of occurrence of impulsive or tonal noise; viii) Over-pressure level dB (linear peak); ix) Atmospheric conditions including temperature, relative humidity and wind speed and direction; and x) Effects due to extraneous factors such as traffic noise.
M5	The method of measurement and reporting of noise levels must comply with the most recent version of the administering authority's <i>Noise Measurement Manual</i> .
M6	The measurement and reporting of noise levels must be undertaken by a person or company possessing appropriate experience and qualifications to perform the required measurements.
M7	Noise Monitoring — Blasting The administering authority may require the registered operator of this environmental authority to undertake monitoring and recording of noise levels and ground vibration if: a) the administering authority receives a complaint about noise that constitutes an unreasonable intrusive noise; and b) the administering authority considers that the complaint is not frivolous or vexatious; and c) the administering authority delivers a written request to the registered operator of this environmental authority requiring it to undertake monitoring and recording of noise levels or ground vibration.
M8	For the purpose of checking compliance with conditions N7 and N8, monitoring and recording of air-blast overpressure level dB (linear peak) from blasting must be undertaken: i) at least at one monitoring point located within the boundary of the approved place for each blast; or ii) in the event of a complaint, that the administering authority considers is not frivolous or vexatious, and upon written request from the administering authority, to carry out monitoring at a suitable location, negotiated, with the administering authority e.g. the premises of a noise sensitive place, for at least five consecutive blasts.
M9	For the purpose of checking compliance with conditions N9 and N10, monitoring and recording of ground vibration from blasting must be undertaken: i) at least at one monitoring point located within the boundary of the approved place for each blast; or ii) in the event of a complaint, that the administering authority considers is not frivolous or vexatious, and upon written request from the administering authority, to carry out monitoring at a suitable location, negotiated, with the administering authority e.g. the premises of a noise sensitive place, for at least five consecutive blasts.
M10	The measurement and reporting of noise levels and ground vibration levels must be undertaken by a person or company possessing appropriate experience and qualifications to perform the required measurements.
M11	The registered operator of this environmental authority must ensure that records are kept of every blast performed at the approved place. Details of the blast event must include: i) time and date; and

	ii) wind speed and direction; and iii) weather conditions; and iv) description and location of monitoring point(s); and v) method of coupling transducer to the ground; and vi) responsible person/company undertaking the blast event; and vii) results of blast event including but not limited to ground vibration and air pressure overblast dB (linear peak).
M12	The method of measurement and reporting of air-blast overpressure levels and ground vibration levels from blasting must comply with AS2670.2 -1990 Part 2, or more recent updates to this standard.
M13	Crushing and Screening Operations Vibration Monitoring For the purpose of checking compliance with condition N3, monitoring and recording of ground vibration from crushing and screening operations must be undertaken upon receipt of a complaint or upon a written request from the administering authority to carry out such monitoring.
M14	The measurement and reporting of ground vibration levels must be undertaken by a person or body possessing appropriate experience and qualifications to perform the required measurements.
M15	The registered operator of this environmental authority must ensure that records are kept of ground vibration monitoring performed at the approved place(s). Details of the ground vibration monitoring must include: i) time and date; and ii) wind speed and direction; and iii) weather conditions; and iv) description and location of monitoring point(s); and v) method of coupling transducer to the ground; and vi) responsible person/company undertaking the ground vibration monitoring; and vii) results of ground vibration monitoring.
M16	The method of measurement and reporting of ground vibration levels from crushing and screening operations must comply with AS2670.2 -1990 Part 2 or more recent updates to this standard.
M17	Ambient Particulate Monitoring For the purposes of checking compliance with condition A2, the registered operator of this environmental authority must develop and implement a particulate monitoring program upon receipt of a written request from the administering authority to carry out such monitoring.
M18	The particulate monitoring program must provide for: i) at least quarterly monitoring of ambient particulate matter (insoluble analysis and particulate matter deposition rate in milligrams/square metre/day) at not less than four (4) locations

	sited at approximately even spacing around the approved place in the proximity of dust sensitive places that are potentially affected by release of dust and particulate matter; and ii) monitoring of ambient particulate matter (insoluble analysis and particulate matter deposition rate in milligrams/square metre/day) over a period of at least three (3) consecutive thirty (30) day periods at a dust sensitive place, to investigate any complaint alleging dust nuisance that is reasonably likely to have emanated from the approved place; and iii) monitoring of the twenty-four (24) average concentration of particulate matter with an aerodynamic diameter less than 10 micrometre (µm) (PM₁₀) suspended in the atmosphere downwind and beyond the boundary of the approved place to investigate any complaint alleging that an environmental nuisance is reasonably likely to have emanated from the approved place. The average concentration must be calculated from a minimum of eight (8) samples obtained over a one (1) month period.												
M19	Samples taken for the particulate monitoring program must be collected and analysed in accordance with the requirements of the Department of Environment "Air Quality Sampling Manual", first edition, November 1997, or more recent editions or supplements to that document as are published by the Department from time to time.												
M20	All determinations of particulate monitoring must be performed by a person or body possessing appropriate experience or qualifications to perform the required determinations.												
M21	Records must be kept of the results of all monitoring of particulate matter (dust) deposition rates and monitoring of the twenty-four (24) average concentration of particulate matter with an aerodynamic diameter less than 10 micrometre (µm) (PM ₁₀) suspended in the atmosphere.												
M22	Sampling Point Details for Monitoring Contaminant Releases to Waters Determinations of the quality of contaminants released to waters to check conformity with the release quality characteristics specified in condition SW10, <i>Table – Release Quality Characteristics</i> of this environmental authority must be undertaken at Sampling Point SBE1 - as shown in <i>Appendix 1: Schedule 1 - Water Monitoring Location</i>.												
M23	Monitoring of Contaminant Releases to Waters The registered operator of this environmental authority is responsible for the making of determinations of the quality of the contaminants released for the quality characteristics specified in <i>Table – Monitoring of Contaminant Releases to Waters</i>. Table – Monitoring of Contaminant Releases to Waters <table><tr><th>QUALITY CHARACTERISTIC DETERMINATION</th><th>SAMPLING POINTS</th><th>FREQUENCY</th></tr><tr><td>pH</td><td>SBE1</td><td>Upon release</td></tr><tr><td>Suspended Solids (mg/L)</td><td>SBE1</td><td>Upon release</td></tr><tr><td>Turbidity (NTU)</td><td>SBE1</td><td>Upon release</td></tr></table>	QUALITY CHARACTERISTIC DETERMINATION	SAMPLING POINTS	FREQUENCY	pH	SBE1	Upon release	Suspended Solids (mg/L)	SBE1	Upon release	Turbidity (NTU)	SBE1	Upon release
QUALITY CHARACTERISTIC DETERMINATION	SAMPLING POINTS	FREQUENCY											
pH	SBE1	Upon release											
Suspended Solids (mg/L)	SBE1	Upon release											
Turbidity (NTU)	SBE1	Upon release											
M24	Water Monitoring All determinations of the quality of contaminants released to waters must be made in accordance with methods prescribed in the most recent edition of the administering authority's <i>Monitoring and Sampling Manual</i>.												

M25	All determinations of the quality of contaminants released must be performed by a person or body possessing appropriate experience and qualifications to perform the required measurements.
M26	Exception Reporting The registered operator of this environmental authority must notify the administering authority in writing within twenty-eight (28) days of completion of analysis of any monitoring required by a condition of this environmental authority which indicates an exceedance of any limit specified in this environmental authority.
M27	The written notification required by condition number M26 above must include: 1) the full analysis results; and 2) details of investigation or corrective actions taken; and 3) any subsequent analysis. (NOTE: Any relevant notification given under section 320 or section 350 of the Act that contains the information specified in condition M27 is also notification under condition M26).
M28	Notification of Emergencies and Incidents Where the registered operator of this environmental authority has not given notification to the administering authority under Section 320 of the <i>Environmental Protection Act 1994</i>, as soon as practicable after becoming aware of any emergency or incident which results in the release of contaminants not in accordance, or reasonably expected to be not in accordance with the conditions of this environmental authority, the registered operator of this environmental authority must notify the administering authority of the release by telephone or facsimile.
M29	Where the registered operator of this environmental authority has not given notification to the administering authority under <i>Section 320 of the Environmental Protection Act 1994</i>, the notification of emergencies or incidents as required by condition number M28 must include but not be limited to the following: a) the registered operator of the environmental authority; and b) the location of the emergency or incident; and c) the number of the environmental authority; and d) the name and telephone number of the designated contact person; and e) the time of the release; and f) the time the registered operator of the environmental authority became aware of the release; and g) the suspected cause of the release; and h) the environmental harm and or environmental nuisance caused, threatened, or to be caused by the release; and i) actions taken to prevent further any release and mitigate any environmental harm and or environmental nuisance caused by the release.
M30	Where the registered operator of this environmental authority has not given notification to the administering authority under Section 320 of the <i>Environmental Protection Act 1994</i> , not more than fourteen (14) days following the initial notification of an emergency or incident, the

	registered operator of the environmental authority must provide written advice of the information supplied in accordance with condition number M29 in addition to: a) proposed actions to prevent a recurrence of the emergency or incident; and b) outcomes of actions taken at the time to prevent or minimise environmental harm; and c) the results of any environmental monitoring performed.
M31	The written notification required by condition number M30 above must include: i) the full analysis results; and ii) details of investigation or corrective actions taken; and iii) any subsequent analysis.
M32	Incident Recording A record must be maintained of at least the following events: i) the time, date and duration of equipment malfunctions where the failure of the equipment resulted in the release of contaminants reasonably likely to cause environmental harm; and ii) any uncontrolled release of contaminants reasonably likely to cause environmental harm; and iii) any emergency involving the release of contaminants reasonably likely to cause material or serious environmental harm requiring the use of fire-fighting equipment.

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.

Act means the *Environmental Protection Act 1994*.

Administering authority means the Department of Environment and Science or its successor, or predecessor.

AS2670.2 means Australian Standard AS2670.2 - 1990 Part 2: Continuous and shock induced vibration in buildings.

AS2187.2 means Australian Standard AS2187.2 - 1993 Part 2: Explosives - Storage, transport and use. Use of explosives.

AS3580.9.6 means Australian Standard AS3580.9.6 - 1990 Methods for sampling and analysis of ambient air - Determination of suspended particulate – PM₁₀ high-volume sampler with size-selective inlet - Gravimetric method.

AS3580.10 means Australian Standard AS3580.10 - 1991 Methods for sampling and analysis of ambient air - Determination of particulates - Deposited matter - Gravimetric method.

Background noise level means either:

- $L_{A90, T}$ being the A-weighted sound pressure level exceeded for ninety percent (90%) of the time period not less than fifteen (15) minutes, using Fast response; or
- $L_{A\text{bg}, T}$ being the arithmetic average of the minimum readings measured in the absence of the noise under investigation during a representative time period of not less than fifteen (15) minutes, using Fast response.

Blasting means the use of explosive materials to fracture -

- a) rock, coal and other minerals for later recovery; or
- b) structural components or other items to facilitate removal from a site or reuse.

Commercial place means a place used as an office or for business or commercial purposes.

Habitable room means a room of a noise sensitive place where people may converse, study, work, relax or sleep.

Intrusive Noise means noise that, because of its frequency, duration, level, tonal characteristics, impulsiveness or vibration -

- a) Is clearly audible to, or can be felt by, an individual; and
- b) annoys the individual.

In determining whether a noise annoys an individual regard must be had to *Australian Standard 1055.2 - 1989 Acoustics - Description and Measurement of Environmental Noise Part 2 - Application to Specific Situations*.

$L_{A\text{max adj}, T}$ means the average maximum A-weighted sound pressure level, adjusted for noise character and measured over a time period of not less than fifteen (15) minutes, using Fast response.

Max $L_{pA, T}$ means the maximum A-weighted sound pressure level measured over a time period of not less than fifteen (15) minutes, using Fast response.

mg/L means milligrams per litre.

Noise sensitive place means -

- a) a dwelling;
- b) a library, childcare centre, kindergarten, school, college, university or other educational institution;
- c) a hospital, surgery or other medical institution;

- d) a protected area, or an area identified under a conservation plan as a critical habitat or an area of major interest, under the *Nature Conservation Act 1992*;
- e) a marine park under the *Marine Parks Act 1982*;
- f) a park or garden that is open to the public (whether or not on payment of money) for use other than for sport or organised entertainment.

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 runoff, and any underground water, or any part thereof.

END OF ENVIRONMENTAL AUTHORITY