Permit

Environmental Protection Act 1994

Environmental authority EPPR00881013

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

Environmental authority number: EPPR00881013

Environmental authority takes effect on 04 September 2019

Environmental authority holder(s)

Name(s)	Registered address
Holcim (Australia) Pty Ltd	Level 8 799 Pacific Highway CHATSWOOD NSW 2067

Environmentally relevant activity and location details

Environmentally relevant activity/activities	Location(s)
Prescribed ERA, ERA 16 - Extraction and Screening, 3: Screening, in a year, the following quantity of material, (b) more than 100,000t but not more than 1,000,000t	Lot 2/RP118315
Prescribed ERA, ERA 16 - Extraction and Screening, 3: Screening, in a year, the following quantity of material, (b) more than 100,000t but not more than 1,000,000t	Lot 2/RP49247
Prescribed ERA, ERA 16 - Extraction and Screening, 3: Screening, in a year, the following quantity of material, (b) more than 100,000t but not more than 1,000,000t	Lot 1/RP207413
Prescribed ERA, ERA 16 - Extraction and Screening, 3: Screening, in a year, the following quantity of material, (b) more than 100,000t but not more than 1,000,000t	Lot 1/RP58274
Prescribed ERA, ERA 16 - Extraction and Screening, 3: Screening, in a year, the following quantity of material, (b) more than 100,000t but not more than 1,000,000t	Lot 2/RP215979

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

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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.

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

Date issued: 04 September 2019

Enquiries:
Extraction, Energy and Chemical Industries Assessment
Department of Environment and Science
Phone: 1300 130 372
Email: palm@des.qld.gov.au

Obligations under the Environmental Protection Act 1994

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

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

Conditions of environmental authority

Agency interest: General	
Condition number	**Condition**
A1	The holder of this environmental authority must: (i) maintain all plant and equipment relating to the carrying out of the environmentally relevant activities 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.
A2	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.
A3	A copy of this environmental authority must be kept in a location readily accessible to personnel carrying out the activity.
A4	Any record or document required to be kept by a condition of this environmental authority must be kept at the approved place for a period of at least five (5) years, except as otherwise provided, and be available for examination by an authorised person. The record retention requirements of this condition will be satisfied if any daily and weekly records are kept for a period of at least three (3) years and these records are then kept in the form of annual summaries after that period.
A5	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.
A6	All instruments and devices used for the measurement or monitoring of any parameter under any condition of this environmental authority must be calibrated, and appropriately operated and maintained.
A7	The only material to be placed in any void or pond on the approved place must be clean rock, clay, sand or soil (excluding any contaminated rock, clay, silt and soil).
A8	The holder of this environmental authority must: (a) develop and implement an IEMS which provides for the following functions: • the monitoring of releases of contaminants into the environment; and • an environmental assessment of the releases; and • staff training and awareness of environmental issues; and • the conduct of environmental and energy audits; and • waste prevention, treatment and disposal; and (b) lodge with the administering authority on or before 1 August 1997 a brief report describing the progress in developing and implementing the IEMS; and (c) on or before 1 September 1997, have completed and implemented the IEMS.
A9	The holder of this environmental authority must submit details of any amendment of the IEMS to the administering authority with the annual return which immediately follows the enactment of any such amendment.
A10	A copy of the IEMS must be kept at the approved place.
Agency interest: Air	
Condition number	**Condition**
B1	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.
B2	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: (i) Dust deposition of 120 milligrams per square metre per day, when monitored in accordance with Australian Standard AS 3580.10 of 1991; (ii) A concentration of particulate matter with an aerodynamic diameter of less than 10 micrometre (pm) (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, when monitored in accordance with:

	(a) 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 (b) 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.
B3	Condition B2 applies if a complaint is made to the administering authority or the holder about emissions of dust and/or particulate matter resulting from the environmentally relevant activities.
B4	The environmentally relevant activities must be managed using reasonable and practicable measures to minimise the release of windblown dust to the atmosphere. Reasonable and practicable measures may include but are not limited to: (i) restriction of vehicular movement within the approved place to designated access routes; (ii) minimisation of exposed surface area to that within the current areas of operation; (iii) rehabilitation of completed areas as soon as reasonable and practicable following completion of excavation or other earthworks; (iv) storage, processing and transfer of materials in a moist state; (v) use of water cart(s) to suppress dust, as necessary, on site access roads.
B5	The holder of this environmental authority must take reasonable and practicable measures necessary to prevent spillage and/or loss of particulate matter and minimise windblown dust from trucks used for transporting extracted materials from the approved place. Reasonable and practicable measures may include but are not limited to: (i) wetting down the load prior to transport; (ii) having the entire load covered with a tarpaulin or similar material for the duration of transport; and (iii) clearing of any spillage from side rails, tail gates and draw bars of trucks prior to departure from the approved place and prior to departure from the premises to which the load has been delivered.
B6	Trafficable areas must be maintained, at all times, in a condition which minimises the release of wind-blown or traffic-generated dust.
B7	All sealed traffic areas must be cleaned as necessary to minimise the release of dust and particulate matter to the atmosphere.
B8	Spillage of aggregate materials in the vicinity of the conveyor shall be removed at least daily, or immediately if visible dust is originating from the spillage.
B9	Materials must be conveyed in a moist state so as to minimise the likelihood of release of dust and particulate matter to the atmosphere.
B10	Water sprays are to be installed and operated on the stockpiles as necessary to minimise the release of dust and particulate matter to the atmosphere.

B11	An effective filter is to be in operation on the exhaust from the cement/fly ash silos.
B12	Silos with a common filter are not to be filled simultaneously.
B13	Controls for shaking and cleaning the filter are to be located at ground level.
B14	Quick acting shut off valves are to be in all silo fill lines and closure of the valves is to be activated automatically by the detection of a high level in the silo being filled.
B15	A test circuit for simulating high-level conditions in the silos is to be used before each bulk delivery.
B16	Remote sensors are to be in operation to warn of any detection of a high level in the silo(s).
B17	All collected material removed from the FFDC (fabric filter dust collector) must be removed and disposed of in a manner that will not cause the release of contaminants to the atmosphere or to waters.
B18	The filling of all silos must be controlled by automatic devices which prevent silos from being filled beyond their nominal capacity.
Agency interest: Water	
Condition number	**Condition**
C1	Contaminants must not be released to any waters.
D1	The maintenance and cleaning of vehicles and any other earthmoving equipment must be carried out in areas from where contaminants cannot be released into any waters, roadside gutter or stormwater drainage system.
D2	Spillage of wastes, contaminants or other materials that has the potential to cause environmental harm 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.
D3	All liquid fuel tank storages and chemical tank 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 tank plus ten percent (10%) of the second largest tank within the bund.
D4	All chemical drum storages and fuel drum storages must be bunded so that the capacity of the bund is sufficient to contain at least twenty-five percent (25%) of the maximum design storage volume within the bund.
D5	All bunding must be constructed of materials which are impervious to the materials stored.
D6	For the purpose of preventing any release of contaminants from bunded storage areas for

	petroleum products or other chemicals, each bunded storage area must either be: (i) roofed to exclude ingress of rainfall; or (ii) inspected as often as necessary having regard to rainfall, but at least daily, to ascertain the level of any water and presence of any contaminants within the bunded area. In the event that a release of contaminants could be reasonably expected to occur, action must be taken to prevent the release. The date, time and results of the inspections, including details of actions taken to prevent the release of contaminants, must be recorded in a log book that is countersigned by the site manager at least weekly.
D7	The holder of this environmental authority must ensure that any stormwater captured within the bunded area is free from contaminants or wastes prior to any release to waters or to any stormwater drainage system or to any land. Where it is practicable to do so, that captured stormwater must be reused or recycled at the approved place rather than being released.
D8	For any new bunding installed following the issue of this environmental authority a collection sump must be provided in the floor of the bunding to facilitate the removal of liquids. The bund floor must be graded so that the fall is towards the collection sump.
D9	All bunding must be maintained free from gaps or cracks.
Agency interest: Land	
Condition number	**Condition**
E1	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: Noise	
Condition number	**Condition**
F1	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.
F2	a) Subject to condition F2(b), the emission of noise from the approved place must not result in levels greater than: (1) 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 1; (2) 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 2; b) (1) Condition F2(a) applies if:

(i) there is a complaint to the **administering authority** about the level of **noise** from any source in the carrying out of the environmentally relevant activities at the approved place; and

(ii) the complaint is not frivolous or vexatious; and

(iii) the **administering authority** considers that the noise complained of may be an unreasonable intrusive noise; and

(iv) the holder of this environmental authority is notified by the **administering authority** of the complaint.

(2) Condition F2(a) applies from the close of the next business day after the notification pursuant to condition F2(b)(1)(iv).

Table 1

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

Table 2

NOISE LIMITS IN TERMS OF dB(A) WITHIN HABITABLE ROOMS		
Terms of occupancy/activity	***Max $L_{pA,T}$ (where Time period "T" equals 15 minutes)***	***$L_{A\ eq,\ T}$ (where Time period "T" equals 60 seconds)***
Recreation areas	45	40
Sleeping areas	45	30
Work areas	45	40

F3	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 and low rise residential buildings when measured at any of the affected residences at any of the monitoring points specified in this environmental authority.
F4	The measurement required for condition **F3** must be undertaken at a distance of at least the longest dimension of the foundations of a noise-affected building or structure away from such building or structure, between that building or structure and the site from where the ground-borne vibration is caused.
F5	The ground vibration transducer [or array] must be attached to a mass of at least 30 kg to ensure good coupling with the ground where the ground-borne vibration site and measurement site cannot be shown to be on the same underlying strata. The mass shall be buried so that its upper most surface is at the same level as the ground surface.
F6	The ground vibration transducer [or array] must be placed at least the greatest dimension of the foundations of the building or structure away from such building or structure between the building or structure and the site of the ground-borne vibration.
Agency interest: Waste	
Condition number	**Condition**
G1	In this section, "waste resulting from the conduct of the environmentally relevant activities": (i) includes waste water produced by screening and/or washing of extracted material; (ii) does not include emissions of noise or emissions of dust or particulate matter.
G2	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.
G3	Waste water produced by screening and/or washing of extracted material must be stored, handled, treated and released in accordance with of this environmental authority.
G4	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.
G5	The holder of this environmental authority must not: (i) burn waste at or on the approved place; or (ii) allow waste to burn or be burnt at or on the approved place; or (iii) remove waste from the approved place and burn such waste elsewhere.
G6	Records of trade waste agreements must be made available to an authorised person for inspection on request.

G7	Where regulated waste is removed from the approved place (other than by a release as permitted under this environmental authority), the holder of this environmental authority must monitor and record the following: (i) the date, quantity and type of waste removed; (ii) name of the waste transporter and or disposal operator that removed the waste; and (iii) 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 **Act** or any other law for regulated waste will be deemed to satisfy this condition.)
G8	Regulated waste must not be sent for disposal at any facility without the written approval of the person operating that facility.

Agency interest: Monitoring and Reporting	
Condition number	**Condition**
H1	All complaints received by the holder of this environmental authority relating to releases of contaminants from operations at the approved place must be recorded and kept in a log book with the following details: (i) time, date and nature of complaint; (ii) type of communication (telephone, letter, personal etc.); (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); (iv) response and investigation undertaken as a result of the complaint; (v) name of person responsible for investigating complaint; and (vi) action taken as a result of the complaint investigation and signature of responsible person.
H2	The **administering authority** may require the holder 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 holder of this environmental authority requiring it to undertake monitoring and recording of noise levels.
H3	Monitoring and recording the noise levels from the environmentally relevant activities must be undertaken for at least the following descriptors, characteristics and conditions: (i) $L_{Amax,\ adj\ T}$; (ii) $L_{Abg,\ T}$ (or $L_{A90,\ T}$); (iii) Max $L_{pA\ T}$;

	(iv) $L_{Aeq, T}$; (v) $L_{AN, T}$ (where N equals statistical levels of 1, 10, 50, 90 and 99); (vi) the level and frequency of occurrence of impulsive or tonal noise; (vii) atmospheric conditions including temperature, relative humidity and wind speed and direction; and (viii) effects due to extraneous factors such as birds, insects and traffic noise.
H4	The following information must be recorded in conjunction with the measurement and recording of the noise: (i) location of sampling point(s); (ii) date sample(s) taken; (iii) time sample(s) taken.
H5	For the purpose of checking compliance with conditions F1 and F2, monitoring and recording of noise from the environmentally relevant activities must be undertaken to investigate any complaint(s) of noise at the monitoring point(s) described as: (i) V1- Hayes House, as marked on sketch entitled "CSR Tivoli - Environmental Monitoring Locations" in Schedule J, provided that that monitoring point is relevant to the complaint being investigated; or (ii) If the monitoring point described in condition H5(i) above is not relevant to complaint(s) being investigated, at a location or locations relevant to that complaint(s) in accordance with condition H7.
H6	For the purpose of checking compliance with condition F3, monitoring and recording of peak particle velocity from crushing and screening plants must be undertaken to investigate any complaint(s) of ground borne vibration at the monitoring point(s) described as: (i) V1- Hayes House, as marked on sketch entitled "CSR Tivoli - Environmental Monitoring Locations" in Schedule J, provided that that monitoring point is relevant to the complaint being investigated; or (ii) If the monitoring point described in condition H6(i) above is not relevant to the complaint(s) being investigated, at a location or locations relevant to that complaint(s) in accordance with conditions F4, F5 and F6.
H7	The method of measurement and reporting of noise levels must comply with the *Department of Environment and Heritage Noise Measurement Manual, second edition, March 1995,* or more recent editions or supplements to that document as become available.
H8	The measurement and reporting of noise levels must be undertaken by a person or body possessing appropriate experience and qualifications to perform the required measurements.
H9	Records must be kept of the results of all monitoring of noise levels (including ground vibration levels) and other information required to be recorded in conjunction with such monitoring for a period of at least five (5) years.
H10	For the purposes of checking compliance with conditions B1 and B2, the holder of this environmental authority must develop and implement a particulate monitoring program.
H11	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 approximate 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 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 upon receipt of request from the **administering authority** to carry out such monitoring; 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 unhealthy condition is caused by dust and particulate matter that is reasonably likely to have emanated from the approved place upon receipt of request from the **administering authority** to carry out such monitoring. The average concentration must be calculated from a minimum of eight (8) samples obtained over a one (1) month period.
H12	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.
H13	All determinations of particulate monitoring must be performed by a person or body possessing appropriate experience or qualifications to perform the required determinations.
H14	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) (PM10) suspended in the atmosphere, for a period of at least three (3) years.
H15	The holder of this environmental authority must notify the administering authority in writing of any monitoring result which indicates an exceedance of any environmental authority limit within twenty eight (28) days of completion of analysis.
H16	The holder of this environmental authority must ensure that the results of all monitoring performed in accordance with this environmental authority for the period covered by the return are submitted with the annual return.
H17	Where the holder of this environmental authority has not given notification to the **administering authority** under Section 37 of the *Environmental Protection Act,* 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 holder of this environmental authority must notify the **administering authority** of the release by telephone or facsimile.
H18	Where the holder of this environmental authority has not given notification to the **administering authority** under duty to notify of the **Act,** the notification of emergencies or incidents as required by condition **H17** must include but not be limited to the following: (i) the holder of the environmental authority;

	(ii) the location of the emergency or incident; (iii) the number of the environmental authority; (iv) the name and telephone number of the designated contact person; (v) the time of the release; (vi) the time the holder of the environmental authority became aware of the release; (vii) the suspected cause of the release; (viii) the environmental harm and or environmental nuisance caused, threatened, or to be caused by the release; and (ix) actions taken to prevent further any release and mitigate any environmental harm and or environmental nuisance caused by the release.
H19	Where the holder of this environmental authority has not given notification to the **administering authority** under the duty to notify of environmental harm provisions of the **Act,** not more than fourteen (14) days following the initial notification of an emergency or incident, the holder of the environmental authority must provide written advice of the information supplied in accordance with condition **H18** in addition to: (i) proposed actions to prevent a recurrence of the emergency or incident; and (ii) outcomes of actions taken at the time to prevent or minimise environmental harm; and (iii) the results of any environmental monitoring performed.
H20	The written notification required by condition **H19** above must include: (i) the full analysis results; and (ii) details of investigation or corrective actions taken; and (iii) any subsequent analysis.

DEFINITIONS

For the purposes of this approval the following definitions apply:

"Act" means the *Environmental Protection Act 1994*.

"administering authority" means the Department of Environment and Heritage Protection or its successor.

"land" in this environmental authority means land excluding waters and the atmosphere.

"noise" includes vibration of any frequency, whether emitted through air or another medium.

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

"background noise level" means either -

(i) LA90, T being the A-weighted sound pressure level exceeded for ninety percent (90%) of the time period of not less than 15 minutes, using Fast response, or

(ii) LAbg, 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 15 minutes, using Fast response.

"MaxL_{pA} T" means the absolute maximum instantaneous A-weighted sound pressure level measured over a time period of not less than 15 minutes, using Fast response.

"noise sensitive place" means -

a) a dwelling, mobile home or caravan park, residential marina or other residential premises; or

b) a motel, hotel or hostel; or

c) a kindergarten, school university or other educational institution: or

d) a medical centre or hospital ;or

e) a protected area; or

f) a park or gardens.

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

"protected area" means -

(a) a protected area under the *Nature Conservation Act 1992*; and/or

(b) a marine park under the *Marine Parks Act 2004*; and/or

(c) a World Heritage Area.

"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 and is unreasonably intrusive, regard must be had to Australian *Standard 1055.2 - 1989 Acoustics - Description and Measurement of Environmental Noise Part 2 - Application to Specific Situations*.

"mg/L" means milligrams per litre.

"AMTD" means Adopted Middle Thread Distance as per the Queensland Water Resources Commission publication entitled "Atlas of AMTD Maps, January 1984."

"downwind", in conditions B2 and H11, means in the downwind direction taking account of the wind direction that predominates for the area at that particular time of the year, for example as shown by wind data obtained from the Commonwealth Bureau of Meteorology.

"dust sensitive place" means -

(a) a dwelling, mobile home or caravan park, residential marina or other residential premises; or

(b) a motel, hotel or hostel; or

(c) a kindergarten, school university or other educational institution: or

(d) a medical centre or hospital ;or

(e) a protected area; or

(f) a park or gardens; or

(g) a place used as an office or for business or commercial purposes

and the curtilage of any such place.

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

"$L_{Aeq, T}$" means the equivalent continuous A-weighted sound pressure level measured over the time interval 'T' where 'T' equals 60 seconds, using Fast response.

SCHEDULE J – APPROVED DOCUMENTS

For the purposes of this environmental authority the following stated document is an approved document:

(1) aerial photograph entitled "CSR Tivoli - Environmental Monitoring Locations".

(2) CSR Tivoli Extractive Industries Environmental Monitoring Location Descriptions.

END OF ENVIRONMENTAL AUTHORITY