Queensland Government

Department of
Environment and Heritage Protection

11-JAN-2016

To: James Hardie Australia Pty Ltd
Attention Plant Manager
PO Box 70
PARRAMATTA NSW 2124

Email: sachitha.Kaluarachchi@jameshardie.com.au

Our reference: 365538/241755

Application details

I refer to the application to amend environmental authority EPPR01578413 to lower the minimum velocity limits regarding Release Points 9-15 from 30 m/s to 10 m/s. Also the emission discharge rates for three of the dust collectors to be reduced from 0.27 g/s to 0.1 g/s. This application was received by the administering authority on 08-DEC-2015.

Land description: 1-35 Cobalt Street, Carole Park Lot 108 Plan SL7249.

Decision

Your application has been approved and your environmental authority (reference EPPR01578413) is attached.

Additional comments or advice

We note that your application also requested amalgamation with environmental authority EPPR00924913. However, the provisions of the *Environmental Protection Act 1994* (section 277) allow for a replacement document to automatically cancel an existing document. Upon a review of the information available it has been determined that the Environmental Authority EPPR01578413 issued on 1 April 2014 was a replacement document for EPPR00924913 and as such no further action is required in relation to EPPR00924913. The department has updated the relevant registers giving effect to this replacement.

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Should you have any further enquiries, please contact Jessica Johnson on telephone 07) 4649 4348.

Yours sincerely

	11 JAN 2016
Signature	Date

James Mackenzie
Department of Environment and Heritage Protection
Delegate of the administering authority
Environmental Protection Act 1994

Enclosed

Permit - environmental authority (reference EPPR01578413)

Permit[1]

Environmental Protection Act 1994

Environmental authority

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

Permit[1] number: EPPR01578413

Environmental authority takes effect on 11 JAN 2016

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

Environmental authority holder(s)

Name	Principal address
James Hardie Australia Pty Ltd	Level 13 18-22 Pitt Street SYDNEY NSW 2000

Environmentally relevant activity and location details

Environmentally relevant activity(ies)	Location(s)
15-Fuel burning >500kg/hr 33-Crushing, milling, grinding or screening >5000t/yr	1-35 Cobalt Street and Carole Park Lot 108 Plan SL7249

Additional information for applicants

Environmentally relevant activities

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

An environmental authority authorises the carrying out of an ERA and does not authorise any environmental harm unless a condition stated by the authority specifically authorises environmental harm.

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

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

Contaminated land

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

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

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

	11 JAN 2016
Signature	Date

James Mackenzie
Department of Environment and Heritage Protection
Delegate of the administering authority
Environmental Protection Act 1994

Enquiries:
Department of Environment and Heritage Protection
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BRISBANE QLD 4001
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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

The environmentally relevant activity(ies) conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

Agency interest: General	
Condition number	**Condition**
G1.	Any breach of a condition of this environmental authority must be reported to the **administering authority** as soon as practicably possible, or at most, within 24 hours of becoming aware of the breach. Records must be kept including full details of the breach and any subsequent actions taken.
G2.	The crushing, screening or grinding **activity** conducted under this environmental authority must not exceed more than 170,000 tonnes per annum.
G3.	All reasonable and practicable **measures** must be taken to minimise the likelihood of environmental harm being caused.
G4.	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; b) establish and maintain control **measures** that minimise the potential for environmental harm; c) ensure plant, equipment and **measures** are maintained in a proper and effective condition; d) ensure plant, equipment and **measures** are operated in a proper and effective manner e) ensure that staff are trained and aware of their obligations under the *Environmental Protection Act 1994;* and f) ensure that reviews of environmental performance are undertaken at least annually.
G5.	All information and records that are required by the conditions of this environmental authority must be kept for a period of at least 5 years and provided to the **administering authority** upon request.

G6.	An **appropriately qualified person(s)** must monitor, interpret and record all quality indicators in the manner required by any condition of this environmental authority and any associated monitoring requirements.
G7.	All analysis and tests required under this approval must be carried out by a laboratory that has **NATA** or equivalent certification for such analysis and tests.
G8.	Storage of chemicals and fuels in bulk or in containers of greater than 15 litres must be within a secondary containment system.
Agency interest: Air	
Condition number	**Condition**
A1.	Odours or airborne contaminants which are **noxious** or **offensive** or otherwise unreasonably disruptive to public amenity or safety must not cause nuisance to any nuisance **sensitive place** or **commercial place**.

A2. The only contaminants to be released to air are contaminants from release points and sources in accordance with *Table 1 - Air release limits* and the associated requirements.

Table 1 - Air release limits

Release Point (RP) or Monitoring Point (MP) Name	Minimum frequency	Minimum release height (m)	Minimum velocity (m/sec)	Contaminant release	Maximum release limit	Minimum temperature (°C)
Release Point No. 1 Boiler Stack [1]	Annually[4]	33.5	8	Total Suspended Particulates (TSP)	250 mg/Nm^3 (at 12% CO_2) and 0.6 g/s	240
				Nitrogen Oxides (NO_x) as NO_2 at 7% O_2	500 mg/Nm^3 (at 7% O_2) and 2.0 g/s	
				Carbon Monoxide (CO)	200 mg/Nm^3 and 0.8 g/s	
				Sulphur Dioxide (SO_2)	600 mg/Nm^3 and 2.4 g/s	
Release Points No. 2-8 Gas Fired Driers [2]	Not applicable	3 m above the roof	10	Not applicable	Not applicable	200
Release Points No. 10,12 &13 Finishing Line Bag Filters [3] - (each release point/stack separately)	Annually[4]	14	10	Total Suspended Particulates (TSP)	50 mg/Nm^3	Not applicable
				PM_{10}	25 mg/Nm^3 and 0.10 g/s	
Release Points No. 9,11 & 15 Finishing Line Bag Filters [3] - (each release point/stack separately)	Annually[4]	14	10	Total Suspended Particulates (TSP)	50 mg/Nm^3	Not applicable
				PM_{10}	25 mg/Nm^3 and 0.27 g/s	
Release Points No. 16-17 Autoclave vents	Not applicable	7	12	Not applicable	Not applicable	95

Associated requirements

[1] The only type of fuel to be burned in the boiler (Release Point No. 1) is coal (except kerosene during boiler light-up).
[2] The only type of fuel to be burned in the driers (Release Points No. 2-8) is natural gas.
[3] All contaminants leaving Release Points No. 9-15 must be treated in fabric filter dust collectors (FFDC) prior to leaving these release points.
[4] Monitoring provisions for the release points listed in Table 2 must comply with the Australian Standard AS 4323.1-1995 "Stationary source emissions Method 1:Selection of sampling provisions".

Agency interest: Noise

Condition number	Condition
N1.	The person undertaking the **activity** to which this approval relates must not cause or permit the release of noise from the **activity** to which this environmental authority relates if the noise causes, or is likely to cause, an **environmental nuisance** at or beyond the **boundary** of the approved place.
N2.	Noise from the **activity** must not exceed the levels identified in *Table 2- Noise limits* and the associated requirements at the locations identified at the **boundary** of the site. The position of these monitoring locations is included within *Schedule 1-Approved plan, Map 1: Approximate noise monitoring locations.* **Table 2- Noise limits** Note: The compliance noise level must be measured as the component noise level.
N3.	If directed by the **administering authority** or an authorised person, noise monitoring, which addresses the following issues, must be undertaken to investigate any complaint of noise nuisance, and the results of the monitoring are given or sent to the **administering authority** or authorised person within fourteen (14) days of the completion of the monitoring- (a) background noise; (b) $L_{A10,adj,\ 15mins}$; (c) $L_{A1,\ adj,15mins}$; (d) $L_{Aeq,\ adj.\ 15mins}$; (e) $MaxL_{pA,adj.15min}$; (f) the level and frequency or occurrence of impulsive or tonal noise; (g) atmospheric conditions including wind speed and direction; (h) effects due to extraneous factors such as traffic noise; and (i) location, date and time of recording.
N4.	The method of measurement and reporting of noise levels must comply with the latest edition of the administering authority's Noise Measurement Manual.

Location (GDA94)		Boundary Noise Limit at Corner of James Hardie Site					
		Northern	Eastern	Southern	Western	South East	South West
Longitude		152.9299	152.9325	152.9257	152.9238	152.9277	152.9253
Latitude		-27.6157	-27.6185	-27.6217	-27.6184	-27.6208	-27.6209
Time Period	**Metric- dB(A)**						
7:00am- 6:00pm	$L_{Aeq,adj,15min}$	53	52	56	55	68	57
6:00pm -10:00pm	$L_{Aeq,adj,15min}$	53	52	56	55	68	57
10:00pm- 6:00am	$L_{Aeq,adj,15min}$	53	52	56	55	68	57
	$MaxL_{pA,adj,15min}$	58	57	61	60	73	62

N5.	Subject to condition N6, the person undertaking the **activity** to which this environmental authority relates must investigate, or commission the investigation of, all complaints alleging noise nuisance from the **activity** to which this approval relates.
N6.	The obligation to investigate a nuisance complaint under condition N5 is negated if the facts and circumstances forming the basis for the complaint are substantially the same as those alleged in a recent and ongoing series of complaints made by the same complainant that is currently under investigation.
N7.	The person undertaking the **activity** to which this environmental authority relates must make reasonable adjustment[1] of practices, procedures or equipment to resolve any validated complaint investigated under condition N5. Examples of a reasonable adjustment include: a) changing the times of the day at which particular actions giving rise to the complaint happen; b) installing or replacing acoustic housing of equipment; or c) enclosing, covering or closing open or exposed infrastructure if enclosing, covering or closing the infrastructure would not compromise or reduce its effectiveness.

Agency interest: Water	
Condition number	**Condition**
WT1	Other than as permitted within this authority , contaminants must not be released from the site to any **waters** or the bed and banks of any **waters**.
WT2	The only contaminants to be released to surface **waters** are stormwaters that have been treated in accordance with the James Hardie Australia -Carole Park - Pty Ltd Stormwater management documents.
WT3	Should the document in condition WT2 be amended or otherwise updated, a copy must be provided to the **administering authority** upon its completion.

Agency interest: Waste	
Condition number	**Condition**
WS1	Waste must only be removed from the site by a transporter lawfully able to transport it to a place lawfully able to receive it.

[1] See section 319 of the *Environmental Protection Act 1994* (General environmental duty) for things that must be considered in determining whether a change is a reasonable adjustment.

Agency interest: Land	
Condition number	**Condition**
L1	Contaminants must not be released to land.

Definitions

Key terms and/or phrases used in this document are defined in this section and **bolded** throughout this document. Applicants should note that where a term is not defined, the definition in the *Environmental Protection Act 1994*, its regulations or environmental protection policies must be used. If a word remains undefined it has its ordinary meaning.

Activity means the environmentally relevant activities, whether resource activities or prescribed activities, to which the environmental authority relates.

Administering authority means the Department of Environment and Heritage Protection or its successor or predecessors .

Appropriately qualified person(s) means a person or persons who has professional qualifications, training, skills or experience relevant to the nominated subject matter and can give authoritative assessment, advice and analysis to performance relative to the subject matter using the relevant protocols, standards, methods or literature.

Background means noise, measured in the absence of the noise under investigation, as $L_{A90,T}$ being the A-weighted sound pressure level exceeded for 90 percent of the time period of not less than 15 minutes, using Fast response.

Boundary means within 1m of the cadastral **boundary** of the approved place.

Commercial place means a place (other than a **sensitive place)** used as a workplace, an office or for business or commercial purposes and includes a place within the curtilage of such a place reasonably used by persons at that place.

Environmental nuisance as defined under the *Environmental Protection Act 1994.*

$L_{Aeq,adj,T}$ means the adjusted A weighted equivalent continuous sound pressure level **measures** on fast response, adjusted for tonality and impulsiveness, during the time period T, where T is measured for a period no less than 15 minutes when the **activity** is causing a steady state noise, and no shorter than 1 hour when the approved **activity** is causing an intermittent noise.

Max$L_{pA,T}$ means the maximum A-weighted sound pressure level measured over a time period T of not less than15 minutes, using Fast response.

Measures has the broadest interpretation and includes plant, equipment, physical objects, monitoring, procedures, actions, directions and competency.

NATA means National Association of Testing Authorities.

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

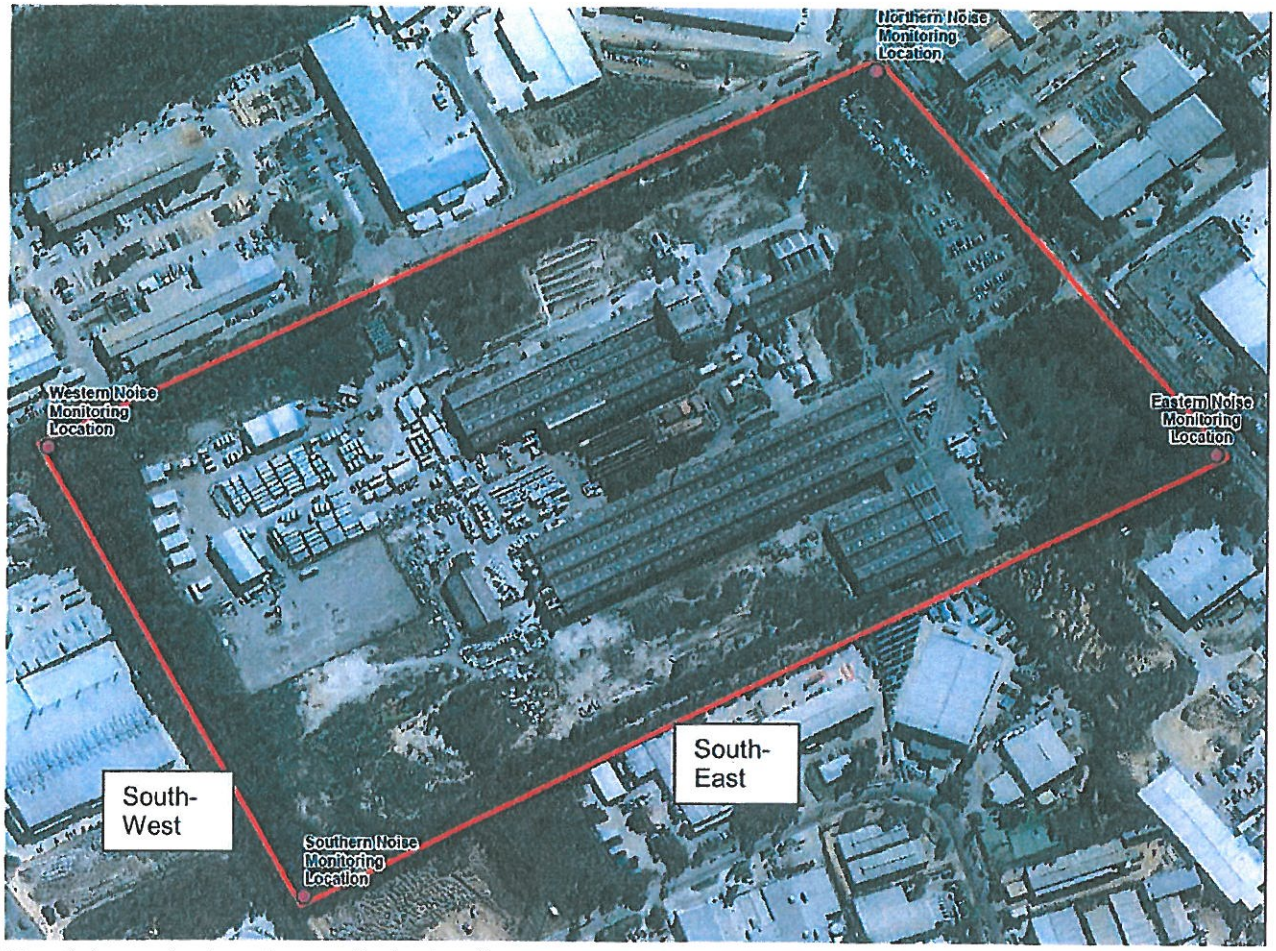
Offensive means causing offence or displeasure; is unreasonably disagreeable to the sense; disgusting, nauseous or repulsive.

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

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

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.

Schedule 1—Approved plan



Map 1: Approximate noise monitoring locations

END OF PERMIT