



**Adelaide Brighton Cement Ltd**

an **ADBRI** company

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## QUARTERLY NOISE MANAGEMENT REPORT FOR BIRKENHEAD WORKS

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**COMPLIANCE DATE: 15/02/2022– Quarter 4 2022**  
**EPA Licence 1126: Noise Management Plan (U-787)**

**Licensed site: Adelaide Brighton Cement, Birkenhead Works**

**62 Elder Road, Birkenhead, SA 5015**

**Date of Submission: 15 February 2023**

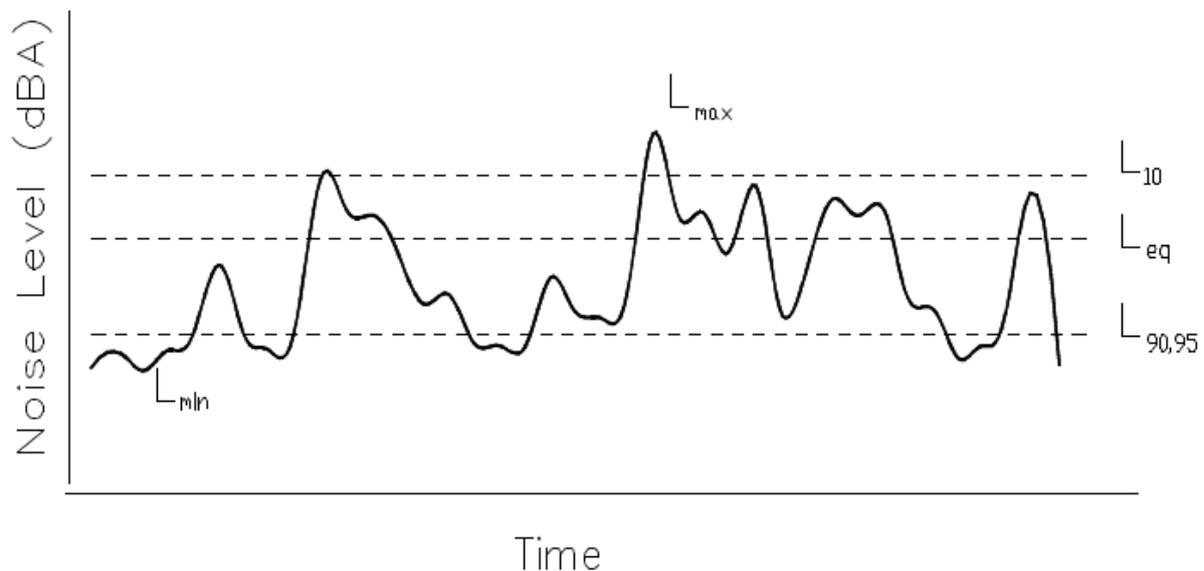
**Version Number: 1**



Report Submitted by: Advisor Environment - C&L (SA/NSW/NT)

## Glossary of acoustic terminology

- dB(A)** A unit of measurement, decibels(A), of sound pressure level which has its frequency characteristics modified by a filter ("A-weighted") so as to more closely approximate the frequency response of the human ear.
- L<sub>1</sub>** The noise level which is equalled or exceeded for 1% of the measurement period. L<sub>1</sub> is an indicator of the impulse noise level, and is used in Australia as the descriptor for intrusive noise (usually in dBA).
- L<sub>10</sub>** The noise level which is equalled or exceeded for 10% of the measurement period. L<sub>10</sub> is an indicator of the mean maximum noise level, and is used in Australia as the descriptor for intrusive noise (usually in dBA).
- L<sub>90</sub>** The noise level which is equalled or exceeded for 90% of the measurement period. L<sub>90</sub> is an indicator of the mean minimum noise level, and is used in Australia as the descriptor for background or ambient noise (usually in dBA).
- L<sub>eq</sub>** The equivalent continuous noise level for the measurement period. L<sub>eq</sub> is an indicator of the average noise level (usually in dBA).
- L<sub>max</sub>** The maximum noise level for the measurement period (usually in dBA).



**Note:** *The subjective reaction or response to changes in noise levels can be summarised as follows:*

A 3 dB(A) increase in sound pressure level is required for the average human ear to notice a change; a 5 dB(A) increase is quite noticeable and a 10 dB(A) increase is typically perceived as a doubling in loudness

<b>Monitoring Objective</b>	<p>The quarterly report will include where applicable:</p> <ul style="list-style-type: none"> <li>• Details of noise complaints (excluding complainant name and identifying address details for reasons of confidentiality), received during the quarter including the outcomes of the complaint investigation and where applicable, corrective actions implemented.</li> <li>• Details on the progress of noise attenuation projects including effectiveness.</li> <li>• Details of noise monitoring reports.</li> <li>• Details of noise minimisation activities.</li> </ul>																				
<b>Monitoring Plan</b>	<p>This monitoring report complies with the Noise Management Plan approved on 16 August 2018 by the SA EPA.</p> <p>The Plan is available on the ABC Birkenhead Community Website:  <a href="https://adelaidebrightoncommunity.com.au/">https://adelaidebrightoncommunity.com.au/</a></p>																				
<b>Noise Complaints Summary</b>	<p>There were 7 complaints for the reporting period, four (4) of which were related to water ingress into fire alarm systems following a storm event on the 12/11/2022.</p> <p>The tables below summarise the noise complaints for the reporting period.</p> <table border="1" data-bbox="320 904 1465 1944"> <thead> <tr> <th data-bbox="320 904 496 1010">Date and Time</th> <th data-bbox="496 904 699 1010">Location</th> <th data-bbox="699 904 951 1010">Description</th> <th data-bbox="951 904 1465 1010">Action Taken</th> </tr> </thead> <tbody> <tr> <td data-bbox="320 1010 496 1261">05/10/2022 21:44</td> <td data-bbox="496 1010 699 1261">Victoria Road Birkenhead</td> <td data-bbox="699 1010 951 1261">Squeaky /rattly noise</td> <td data-bbox="951 1010 1465 1261">Site inspection conducted, found 2 noisy rollers on limestone conveyor belt (LS6) close to site boundary. Immediately applied lubrication to reduce noise (checked to confirm noise not leaving site), organised fitter to replace worn bearings.</td> </tr> <tr> <td data-bbox="320 1261 496 1366">16/10/2022 23:47</td> <td data-bbox="496 1261 699 1366">Alfred street Peterhead</td> <td data-bbox="699 1261 951 1366">Ringing noise</td> <td data-bbox="951 1261 1465 1366">Plant and neighbourhood investigation at the time did not identify any unusual noise in the plant or neighbourhood.</td> </tr> <tr> <td data-bbox="320 1366 496 1655">12/11/2022 16:28</td> <td data-bbox="496 1366 699 1655">Anonymous</td> <td data-bbox="699 1366 951 1655">Alarm sounding</td> <td data-bbox="951 1366 1465 1655">Metropolitan Fire Service attended - alarm silenced and isolated. Investigation found water ingress (from storm event), into fire alarm system (manual call point) in preheater tower. Metropolitan Fire Service attended - alarm silenced and isolated. Repairs by Infitech to prevent ingress of water.</td> </tr> <tr> <td data-bbox="320 1655 496 1944">12/11/2022 16:30</td> <td data-bbox="496 1655 699 1944">Little Craigie Street Birkenhead</td> <td data-bbox="699 1655 951 1944">Resident can hear alarm since storm came through.</td> <td data-bbox="951 1655 1465 1944">Metropolitan Fire Service attended - alarm silenced and isolated. Investigation found water ingress (from storm event), into fire alarm system (manual call point) in preheater tower. Metropolitan Fire Service attended - alarm silenced and isolated. Repairs by Infitech to prevent ingress of water.</td> </tr> </tbody> </table>	Date and Time	Location	Description	Action Taken	05/10/2022 21:44	Victoria Road Birkenhead	Squeaky /rattly noise	Site inspection conducted, found 2 noisy rollers on limestone conveyor belt (LS6) close to site boundary. Immediately applied lubrication to reduce noise (checked to confirm noise not leaving site), organised fitter to replace worn bearings.	16/10/2022 23:47	Alfred street Peterhead	Ringing noise	Plant and neighbourhood investigation at the time did not identify any unusual noise in the plant or neighbourhood.	12/11/2022 16:28	Anonymous	Alarm sounding	Metropolitan Fire Service attended - alarm silenced and isolated. Investigation found water ingress (from storm event), into fire alarm system (manual call point) in preheater tower. Metropolitan Fire Service attended - alarm silenced and isolated. Repairs by Infitech to prevent ingress of water.	12/11/2022 16:30	Little Craigie Street Birkenhead	Resident can hear alarm since storm came through.	Metropolitan Fire Service attended - alarm silenced and isolated. Investigation found water ingress (from storm event), into fire alarm system (manual call point) in preheater tower. Metropolitan Fire Service attended - alarm silenced and isolated. Repairs by Infitech to prevent ingress of water.
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13/11/2022 00:06	Anonymous	Evacuation Alarm - resident concerned as lives close to plant	Metropolitan Fire Service attended - alarm silenced and isolated. Evacuation alarm activated - due to electrical failure in 4A preheater room fire control cabinet. Investigation found water had travelled along cables into electrical cabinet causing card failure. Repairs by Infitech including measures to prevent ingress of water.
13/11/2022 00:06	Alfred street Peterhead	Evacuation Alarm	Metropolitan Fire Service attended - alarm silenced and isolated. Evacuation alarm activated - due to electrical failure in 4A preheater room fire control cabinet. Investigation found water had travelled along cables into electrical cabinet causing card failure. Repairs by Infitech including measures to prevent ingress of water.
28/12/2022 23:11	Victoria Road Birkenhead	Noise from plant	Investigation found noisy vacuum truck operating outside RDF building. Immediately stopped the use of the vacuum truck.

**Noise Monitoring Reports**

No noise monitoring undertaken in this reporting period

**Noise Minimisation Activities**

No noise minimisation activities in this reporting period