



**Adelaide Brighton Cement Ltd**

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## ENVIROMENTAL IMROVEMENT PROGRAMME (EIP) QUARTERLY REPORT FOR BIRKENHEAD WORKS

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**COMPLIANCE DATE: 15/11/2022 – Quarter 3, 2022**

**EPA Licence 1126: Environmental Improvement Programme (U-583)**

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

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

**Date of Submission: 18 November 2022**

**Version Number: 1**



Report Submitted by: Sustainability/Environmental Engineer

*I certify that I have reviewed this report and to the best of my knowledge and ability that all the information provided in this report is a true and accurate reflection of the regulatory monitoring.*

<b>Purpose</b>	The purpose of the Environmental Improvement Programme (EIP) is to reduce noise and fugitive particulate emissions from the site.
<b>Background Information</b>	<p>In order to reduce its environmental impact, Adelaide Brighton Cement Ltd, has developed an EIP that contains projects to reduce noise and fugitive particulate emissions. These projects were identified from the following inputs:</p> <ul style="list-style-type: none"> <li>• Adelaide Brighton Cement Limited Report, August 2018, "Assessment of Options Report"</li> <li>• Katestone Environmental Report, August 2018 "Birkenhead Cement Plant – Options Assessment Report"</li> <li>• Katestone Environmental Report 2017 "Air Quality Assessment of the Birkenhead Cement Plant"</li> <li>• Vipac Engineers and Scientists Report, August 2018 "Environmental Noise Model Update"</li> <li>• Vipac Engineers and Scientists Report, February 2019 "Noise model update and Abatement Options"</li> </ul> <p>Thirteen fugitive particulate and three noise improvement projects were identified and incorporated into an EPA approved EIP.</p> <p>EIP project implementation is tracked through the completion of 52 compliance actions over the life of the EIP.</p> <p>The EIP was approved by the EPA on 28 February 2019. The EIP has been revised in accordance with the EIP. The latest EIP - Revision 6 is available on the ABC Birkenhead Community Website: <a href="https://adelaidebrightoncommunity.com.au/">https://adelaidebrightoncommunity.com.au/</a></p>
<b>Reporting Objective</b>	<p>Quarterly EIP progress report providing:</p> <ul style="list-style-type: none"> <li>• Details of steps taken to progress compliance actions</li> <li>• Details of proposed next steps to be taken</li> </ul>
<b>Quarterly Report</b>	The EIP progress report for the quarter is tabled below

**Adelaide Brighton Cement Ltd (ABC) Environmental Improvement Programme (EIP)**

**1 March 2019 – December 2022**

<b>EIP Project</b>	<b>Category</b>	<b>Project</b>	<b>Compliance Action</b>	<b>Project Milestones (Compliance actions)</b>	<b>Actions &amp; Outcomes</b>
4	Fugitive Dust - Transfer operation	MM Wheel wash system	15	Subject to capital approval by 21/11/2021 and annual kiln shutdown commencing on 10/01/2022, ABC will complete installation and commissioning of the wheel wash by 01/04/2022.	<p>ABC will hire a portable wheel wash unit to assess effectiveness and suitability.</p> <p>The typical duty of the hire unit is as follows:</p> <ul style="list-style-type: none"> <li>• Road-based truck / trailer configurations: 2900mm internal tire width</li> <li>• Capacity 50 trucks/day</li> <li>• Expected wash time ~30 seconds (depends vehicle length/speed)</li> <li>• Automatic operation</li> <li>• To be situated on concrete hard stand roadway/surface</li> <li>• Reclaim and reuse of cleaning water as much as possible – system top up with mains water</li> <li>• Materials expected to be handled, Limestone, Bauxite, Clay, Sands</li> </ul> <p>ABC had difficulty in getting vendors to respond to supply a suitable hire unit.</p> <p>ABC is now considering redesign of the existing wheel wash unit to accommodate wheel washing for front end loaders.</p>

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**1 March 2019 – December 2022**

<b>EIP Project</b>	<b>Category</b>	<b>Project</b>	<b>Compliance Action</b>	<b>Project Milestones (Compliance actions)</b>	<b>Actions &amp; Outcomes</b>
10	Fugitive dust - Sealing exposed unsealed surfaces	Seal area North of Kiln	33	By 1/04/2022, ABC will complete the engineering design to enable capital approval for sealing 1200m2 of unsealed surface area to the North of the kiln	<p>This location is earmarked for alternative fuel receival facility for feeding the kiln. Part of this area currently includes accommodation - offices and amenities used by contractors working on site.</p> <p>The plan is also to relocate and combine contractor accommodation in the area far North of the kiln – EIP Project 11</p> <p>Approvals for the alternative fuel project has not progressed as expected delaying the scope of work for sealing of this area.</p>

**Adelaide Brighton Cement Ltd (ABC) Environmental Improvement Programme (EIP)**

**1 March 2019 – December 2022**




<b>EIP Project</b>	<b>Category</b>	<b>Project</b>	<b>Compliance Action</b>	<b>Project Milestones (Compliance actions)</b>	<b>Actions &amp; Outcomes</b>
11	Fugitive dust - Sealing exposed unsealed surfaces	Seal contractor compound (area far North of kiln)	36	By 22/04/2022, ABC will complete the engineering design to enable capital approval for sealing 1200m2 of unsealed surface area to the far North of the kiln.	<p>The plan is to relocate and combine contractor accommodation in the area far North of the kiln and requires provision of services, such as sewer, water and power. Approvals for the alternative fuel project (See EIP 10) has not progressed as expected delaying the scope of work for sealing of this area.</p>

**Adelaide Brighton Cement Ltd (ABC) Environmental Improvement Programme (EIP)****1 March 2019 – December 2022**

<b>EIP Project</b>	<b>Category</b>	<b>Project</b>	<b>Compliance Action</b>	<b>Project Milestones (Compliance actions)</b>	<b>Actions &amp; Outcomes</b>
12	Fugitive Dust - Storage/processing buildings	CM6 Cladding	41	Subject to capital approval by 1/12/2020, ABC will complete the upgrade/maintain the cladding on CM6 by 30/04/2022.	<p>This project was scheduled to occur during the Cement mill 6 shutdown which was planned for April 2022.</p> <p>The shutdown of CM6 mill has been delayed and is now currently scheduled for October 2022.</p> <p>ABC was unable to secure contractors to undertake the work during the CM6 shutdown and is looking for the next available opportunity.</p>

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**1 March 2019 – December 2022**

<b>EIP Project</b>	<b>Category</b>	<b>Project</b>	<b>Compliance Action</b>	<b>Project Milestones (Compliance actions)</b>	<b>Actions &amp; Outcomes</b>
13	Fugitive Dust - Storage/processing buildings	CM6 Gantry Cladding	45	Subject to capital approval by 30/12/2021, ABC will complete the CM6 Clinker Gantry cladding upgrade/maintenance by 29/09/2022.	<p>ABC has approval for the expenditure to seal the CM6 Gantry building</p> <p>Photographs showing some of the sections where cladding has been replaced</p>    <p>The wall cladding works have now been completed.</p>