



Adelaide Brighton Cement Ltd

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ENVIROMENTAL IMROVEMENT PROGRAMME (EIP) QUARTERLY REPORT FOR BIRKENHEAD WORKS

COMPLIANCE DATE: 15/08/2021 – Quarter 2, 2021

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

Licensed site: Adelaide Brighton Cement, Birkenhead Works

62 Elder Road, Birkenhead, SA 5015

Date of Submission: 13 August 2021

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.

Purpose	The purpose of the Environmental Improvement Programme (EIP) is to reduce noise and fugitive particulate emissions from the site.
Background Information	<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"> • Adelaide Brighton Cement Limited Report, August 2018, “Assessment of Options Report” • Katestone Environmental Report, August 2018 “Birkenhead Cement Plant – Options Assessment Report” • Katestone Environmental Report 2017 “Air Quality Assessment of the Birkenhead Cement Plant” • Vipac Engineers and Scientists Report, August 2018 “Environmental Noise Model Update” • Vipac Engineers and Scientists Report, February 2019 “Noise model update and Abatement Options” <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: https://adelaidebrightoncommunity.com.au/</p>
Reporting Objective	<p>Quarterly EIP progress report providing:</p> <ul style="list-style-type: none"> • Details of steps taken to progress compliance actions • Details of proposed next steps to be taken
Quarterly Report	<p>EIP Projects, 5, 6 and 7 have been completed.</p> <p>An unscheduled kiln shutdown to repair a section of refractory, and covid restrictions, has resulted in ABC requiring a variation in completion dates for EIP Project 13, compliance actions 42 and 43 to 30/09/2021. The final completion date for this EIP project will remain unchanged.</p> <p>The EIP progress report for the quarter is tabled below</p>


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

1 March 2019 – December 2022

EIP Project	Category	Project	Compliance Action	Project Milestones (Compliance actions)	Actions & Outcomes
4	Fugitive Dust - Transfer operation	MM Wheel wash system	12	By the 01/06/2021, ABC will complete an engineering study, including selection and installation of truck wheel wash to enable approval for capital expenditure.	<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"> • Road-based truck / trailer configurations: 2900mm internal tire width • Capacity 50 trucks/day • Expected wash time ~30 seconds (depends vehicle length/speed) • Automatic operation • To be situated on concrete hard stand roadway/surface • Reclaim and reuse of cleaning water as much as possible – system top up with mains water • Materials expected to be handled, Limestone, Bauxite, Clay, Sands
			13	By 01/06/2021, ABC will submit development application to the relevant regulatory authority for construction of a wheel wash.	<p>Installation of a portable wheel wash unit will not require council development approval.</p> <p>ABC will now proceed to obtain expenditure approval for the hire of a portable wheel wash for the MM system by 21/11/2001 as required by compliance action 14</p>


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1 March 2019 – December 2022

EIP Project	Category	Project	Compliance Action	Project Milestones (Compliance actions)	Actions & Outcomes
5	Fugitive Dust - Conveyors	CS2 CR2 CR3 wind shielding	19	<p>Subject to capital approval by 9/11/2020 and the annual kiln shutdown commencing on 4/1/2021, ABC will complete installation of the CS2 CR2 CR3 wind shielding by 01/02/2021.</p> <p>ABC has requested a variation due to COVID -19 impacts, delayed resources and annual plant outage as follows:</p> <p>Variation:</p> <p>Subject to capital approval by 9/11/2020 and the annual kiln shutdown commencing on 24/2/2021, ABC will complete installation of the CS2 CR2 CR3 wind shielding by 30/04/2021.</p> <p>Project completed</p>	<p>ABC Advised the EPA, that the project was progressing well but would not be completed as expected by 30/4/2021. The necessary work to prepare the CS2 conveyor structure before cladding could be applied had taken longer than anticipated.</p> <p>The roofing and cladding installation was completed on the 7/5/2021, and roof vents installed the following week.</p> <p>The photograph below shows the completed project.</p> 



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

1 March 2019 – December 2022

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6	Fugitive Dust – Storage/processing buildings	CM6 CF6 Clinker Transfer Point Dust Collector	22	<p>Subject to capital approval by 28/11/2019 and CM6 mill shutdown in April 2021, ABC will complete commissioning of dust collection system by 30/06/2021.</p> <p align="center">Project completed</p>	<p>Engineering analysis determined the existing dust collector is correctly sized, but dust capture at the transfer point needed improvement.</p> <p>ABC has completed the installation of the redesigned duct work to provide effective capture of dust at the transfer point. This work was completed on 24 June 2021</p>  <p>These improvements will reduce dust loadings within CM6 building and will lead to lower overall fugitive dust emissions from the building.</p>

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1 March 2019 – December 2022

EIP Project	Category	Project	Compliance Action	Project Milestones (compliance actions)	Actions & Outcomes
7	Fugitive Dust – Storage/processing buildings	CM6 Clinker Gantry entry air knives	25	<p>Subject to capital approval by 30/10/2020, ABC will complete the installation of air knives on the truck entry to the CM6 Clinker Gantry by 17/05/2021.</p> <p>Variation: <i>ABC advised the EPA that the supplier had informed ABC of delays in the delivery of the fans which were not expected to arrive until the end of June, delaying completion of the project. The air knife system design and onsite electrical work in preparation for arrival of the fans had been completed.</i></p> <p>Project completed</p>	<p>ABC has completed the installation of the air knives and the system was operational from the 10/8/2021. The photos below show the installed air knife duct work and one of the two identical air fans that have been installed.</p>   <p>This project improves fugitive dust emissions from the CM6 Clinker Gantry door when vehicles pass through.</p>