

#### adelaidebrighton.com.au

Adelaide Brighton Cement Ltd
ABN 96 007 870 199
PO Box 229
Angaston SA 5353
+61 8 8561 3100

# Stack Particulate Management Plan Annual Stack Particulate Report

Period: October 2020 - September 2021

Licensed site: Adelaide Brighton Cement, Angaston Works

845, Stockwell Road, Angaston, SA 5353

**EPA Licence number: 35** 

Date of Submission: 29 October 2021

Version Number: 1



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

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

### Glossary

Term	Definition	
μg/m3	micrograms per cubic metre	
mg/m3	milligrams per cubic metre	
m	metre	
$m^3$	cubic metres	
m³/s	cubic metres per second	
Nm³	Gas volume in cubic metres at STP dry basis	
<b>Abbreviations</b>	Definition	
Air EPP	Environment Protection (Air Quality) Policy 2016	
SA EPA	South Australian Environment Protection Authority	
STP	Standard Temperature and Pressure (zero degrees Celsius and 101.3	
	kilo Pascals absolute)	
TSP	Total Suspended Particulates	
SPMP	Stack Particulate Management Plan	

## Monitoring Objective

All stack particulate emissions events for the reporting period, where levels have exceeded the reporting thresholds:

- 100 mg/Nm³ (1-hour averaging period) on Kiln Stack 1
- 100 mg/Nm³ (1-hour averaging period) on Kiln Stack 2
- 25 mg/Nm³ (1-hour averaging period) on Kiln Stack 3

An annual report will be prepared and submitted by the last day of October of each year that provides an analysis of the 1-hour particulate reporting events including:

- A table detailing the number and cause of reporting events for Kiln Stacks 1,2 and 3
  - date, time and duration
  - the measured particulate concentration mg/Nm³ (STP-dry)
  - immediate actions taken to reduce particulate emissions
  - cause and corrective actions taken to prevent future reoccurrence
- A trend analysis of magnitude and duration of 1-hour notifications on a time series graph for each stack for the current year
- A trend analysis of community complaints by type against 1-hour reporting events by cause on a time series graph for each stack
- A table comparing the number of 1-hour reporting events by cause for the current and previous 1, 3 and 5 years. To provide consistency in data management, the new licence reporting requirements will be phased in as follows;

Reporting year	Comparison with previous reporting years
2019 - 2020 data	No comparison
2020 - 2021 data	1 year comparison
2021 - 2022 data	1 and 3 year comparison
2022 - 2023 data	1 and 3 year comparison
2023 - 2024 data	1, 3 and 5 year comparison

 Identification of opportunities for improvement to decrease the frequency, duration and magnitude of 1-hour reporting events

## Monitoring Plan

This monitoring report has been prepared in line with the Stack Particulate Management Plan approved on 25 October 2019 by the South Australian EPA.

The Plan is available on the ABC Angaston Community Website: <a href="https://www.angastoncommunity.com.au">https://www.angastoncommunity.com.au</a>

1-hr Reporting Events	Summary of 1-hr Reporting events 1/10/2020 to 30/9/2021	
Events	Kiln 1	
	Care and maintenance mode for the full reporting period	
	Kiln 2	
	No 1-hr reporting events (particulate emissions exceeding 100 mg/Nm3)	
	Kiln 3	
	No 1-hr reporting events (particulate emissions exceeding 25 mg/Nm3)	
Trend analysis	4/40/2024	
1-hr reporting events	1/10/2021	
oromo	There are no 1-hr reporting events for this reporting period	
Trend analysis	Trend analysis of community complaints by type against 1-hr reporting events	
Community Complaints	There were no community complaints related to stack emissions or dust during the reporting period	
Opportunities for improvement	Identification of opportunities to prevent or prevent the frequency, duration and magnitude of 1-hr reporting events in this reporting period	
	The table below details the opportunities to reduce the frequency, duration and magnitude of 1-hr reporting events, that have been identified.	

Stack	Improvement Opportunities Identified and Implemented	Improvement Opportunities to be Implemented
Kiln-1	None (not running)	None (not running)
Kiln-2	None	None
Kiln-3	In the 2020 annual report it was identified that all filters in Kiln 3 bag house needed to be replaced during the next major shutdown.  All 468 filter bags in Kiln-3 bag house were replaced during the June 2021 shutdown	None

Plan/TARP Review	Stack Particulate Management Plan / TARP Review:	
	The Stack Particulate Management Plan (SPMP) incorporates the use of stack particulate emissions Trigger Action Reporting Plans (TARP's) since Oct 2019.	
	The current Trigger Action Reporting Plans have been effective in improving operation response times to process conditions that have the potential for stack emissions to reach 1-hr reporting levels.	
	There have been no identified improvements required in the existing TARP's.	
Summary:	The Stack Particulate Management Plan (SPMP) incorporates the use of stack particulate emissions Trigger Action Reporting Plans (TARP's) since Oct 2019.	
	The current Trigger Action Reporting Plans have been effective in improving operation response times to process conditions that have the potential for stack emissions to reach 1-hr reporting levels.	
	It is recommended that the performance of the existing TARP's be monitored over the next 12 months.	