



Adelaide Brighton Cement Ltd

an **ADBRI** company

adelaidebrighton.com.au

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

ANNUAL DUST MANAGEMENT REPORT FOR ANGASTON WORKS

2024 Annual Report and TARP Review

Compliance date: 31/10/2024

EPA Licence: 35

Licensed site: Adelaide Brighton Cement, Angaston Works

345 Stockwell Road, Angaston, SA 5353

Date of Submission: 29 November 2024

Version Number: 1



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

Glossary

Term	Definition
$\mu\text{g}/\text{m}^3$	micrograms per cubic metre
mg/m^3	milligrams per cubic metre
μm	micrometre
$^{\circ}\text{C}$	degrees Celsius
m	metre
m^3	cubic metre
m^3/s	cubic metres per second
Nomenclature	Definition
PM ₁₀	Particulate matter with a diameter less than 10 micrometres
PM _{2.5}	Particulate matter with a diameter less than 2.5 micrometres
24 hour average	Calendar day (midnight to midnight)
Abbreviations	Definition
ABC	Adelaide Brighton Cement
Air EPP	South Australian Environment Protection (Air Quality) Policy 2016
DMP	Dust Management Plan
EPA	Environment Protection Authority
SPMP	Stack Particulate Management Plan
TARP	Trigger Action Response Plan

Purpose	The purpose of the Dust Management Plan (DMP) is to minimise dust emissions from on-site activities.
Dust Management Plan	<p>This report has been prepared in compliance with the Dust Management Plan, approved 25 October 2019, by SA EPA.</p> <p>The plan is available on the ABC Angaston Community website: https:// https://www.angastoncommunity.com.au</p>
Background Information	<p>The DMP contains a Trigger Action Response Plan (TARP) to proactively manage fugitive dust emissions.</p> <p>The TARP uses two levels of trigger:</p> <p>The following two levels of trigger/response have been defined:</p> <ul style="list-style-type: none"> • Level 1 trigger (investigate) – potential for dust emissions • Level 2 trigger (escalate) – potential for dust emissions to be higher than normal and action may be required <p>Triggers and responses have been defined for:</p> <ul style="list-style-type: none"> • Visual observations • Meteorological parameters <p>The TARP has been designed to allow proactive management of fugitive dust. Therefore, a trigger, does not indicate the presence of an off-site dust impact.</p> <p>Trigger levels and responses are documented in the EPA Approved DMP.</p>

Reporting Objective	<p>To review the effectiveness of the Trigger Action Response Plan (TARP) contained within the approved Dust Management Plan (DMP) and includes;</p> <ul style="list-style-type: none"> • A table detailing <ul style="list-style-type: none"> • date, time and trigger exceeded • action and response strategies implemented • A review of all trigger values • A review of the effectiveness of all action and response strategies and adverse trends • A review and analysis of community complaints with the exceedance of trigger values • Opportunities for improvement in dust management 												
Review of Triggers, Community complaints and Effectiveness of the TARP	<p>Summary of TARP alerts and actions for the reporting period is attached (refer to appendix 1):</p> <ul style="list-style-type: none"> • A total of 36 Level 1 Meteorological trigger alerts were raised for the reporting year • A total of 39 Level 2 Meteorological trigger alerts were raised for the reporting year • 0 visual triggers raised for the reporting year <p>Complaints: Two complaints related to dust were received in the reporting period</p> <table border="1" data-bbox="383 831 2054 1302"> <thead> <tr> <th data-bbox="383 831 562 935">Date and Time</th> <th data-bbox="562 831 804 935">Location</th> <th data-bbox="804 831 1072 935">Description</th> <th data-bbox="1072 831 2054 935">Action Taken</th> </tr> </thead> <tbody> <tr> <td data-bbox="383 935 562 1086">29/01/2024 13:19 pm</td> <td data-bbox="562 935 804 1086">Stockwell road Angaston</td> <td data-bbox="804 935 1072 1086">dust spots on car</td> <td data-bbox="1072 935 2054 1086">Wind direction at time of complaint was blowing from the west towards the plant from the complainant's location. The complaint was about dust on car and property and was an enquiry about perceived increase in dust levels.</td> </tr> <tr> <td data-bbox="383 1086 562 1302">1/03/2024 15:30 pm</td> <td data-bbox="562 1086 804 1302">Stockwell road Angaston</td> <td data-bbox="804 1086 1072 1302">dust on car</td> <td data-bbox="1072 1086 2054 1302">Wind direction at time of complaint was from the west, blowing towards the plant from the complainant's location. It was an enquiry about removal of dust built up on cars over time. It was noted that the complainant is located less than 100 m from a concrete batching plant, which had significant drag out of dust as did the trucks going past. 3 Happy car wash vouchers were provided as a gesture of good will.</td> </tr> </tbody> </table>	Date and Time	Location	Description	Action Taken	29/01/2024 13:19 pm	Stockwell road Angaston	dust spots on car	Wind direction at time of complaint was blowing from the west towards the plant from the complainant's location. The complaint was about dust on car and property and was an enquiry about perceived increase in dust levels.	1/03/2024 15:30 pm	Stockwell road Angaston	dust on car	Wind direction at time of complaint was from the west, blowing towards the plant from the complainant's location. It was an enquiry about removal of dust built up on cars over time. It was noted that the complainant is located less than 100 m from a concrete batching plant, which had significant drag out of dust as did the trucks going past. 3 Happy car wash vouchers were provided as a gesture of good will.
Date and Time	Location	Description	Action Taken										
29/01/2024 13:19 pm	Stockwell road Angaston	dust spots on car	Wind direction at time of complaint was blowing from the west towards the plant from the complainant's location. The complaint was about dust on car and property and was an enquiry about perceived increase in dust levels.										
1/03/2024 15:30 pm	Stockwell road Angaston	dust on car	Wind direction at time of complaint was from the west, blowing towards the plant from the complainant's location. It was an enquiry about removal of dust built up on cars over time. It was noted that the complainant is located less than 100 m from a concrete batching plant, which had significant drag out of dust as did the trucks going past. 3 Happy car wash vouchers were provided as a gesture of good will.										

Effectiveness:

- This report confirms the current TARP is assisting in managing dust control measures to minimise offsite dust from the site

Opportunities for improvement:

- No opportunities have been identified.

Appendix 1 Trigger / Response Summary	Date Time	Level- 1 Trigger wind speed $\geq 6\text{m/s}$ and $90 \leq$ wind direction ≤ 180	Level-2 Trigger wind speed $\geq 8\text{m/s}$	Response
	04/11/2023 8:30	Yes		Reduce planned activity level. No carting activities scheduled on this day
	16/11/2023 17:30	Yes		Reduce planned activity level. No carting activities scheduled on these times
	17/11/2023 9:30	Yes		Assess potential for shifting operations to more favourable conditions. CKD carting activities will be done before these times.
	22/11/2023 18:30	Yes		Reduce planned activity level. No more clay carting by these time
	23/11/2023 2:30	Yes		Assess potential for shifting operations to more favourable conditions. Carting of clay to be done when weather condition is better.
	27/11/2023 18:30	Yes		Reduce planned activity level. No carting on this time
	08/12/2023 15:30		Yes	Assess potential for shifting operations to more favourable conditions. Carting to be done before wind condition becomes strong.
	10/12/2023 6:30	Yes		Reduce planned activity level. No carting activities scheduled on these times
	11/12/2023 6:30		Yes	Assess potential for shifting operations to more favourable conditions. Carting LKD & CKD when weather conditions are better.

Date Time	Level- 1 Trigger wind speed $\geq 6\text{m/s}$ and $90 \leq$ wind direction ≤ 180	Level-2 Trigger wind speed $\geq 8\text{m/s}$	Response
13/12/2023 16:30		Yes	Assess potential for shifting operations to more favourable conditions. Carting to be done before bad wind condition.
19/12/2023 18:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on these times
20/12/2023 18:30	Yes		Assess potential for shifting operations to more favourable conditions. Carting of rejects/LKD to be done before these times
24/12/2023 16:30		Yes	Stop all activity in stockpile areas. All assets are off. No carting activities.
25/12/2023 18:30		Yes	Stop all activity in stockpile areas. Plant assets are off. No carting activities.
29/12/2023 18:30	Yes		Reduce planned activity level. Plant Off. No carting activities.
13/01/2024 4:30	Yes		Reduce planned activity level. No carting activities scheduled on these times
14/01/2024 6:30	Yes		Reduce planned activity level. No carting activities scheduled on these times.
15/01/2024 5:30	Yes		Assess potential for shifting operations to more favourable conditions. Carting activities will be done before these times
20/01/2024 17:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on these times
21/01/2024 18:30	Yes		Reduce planned activity level. No carting activities scheduled on these times
22/01/2024 11:30	Yes		Assess potential for shifting operations to more favourable conditions. Carting activities will be done before these times
30/01/2024 19:30	Yes		Reduce planned activity level. No carting activities scheduled on these times
31/01/2024 17:30	Yes		Reduce planned activity level. No carting activities scheduled on these times

Date Time	Level- 1 Trigger wind speed $\geq 6\text{m/s}$ and $90 < \text{wind direction} \leq 180$	Level-2 Trigger wind speed $\geq 8\text{m/s}$	Response
06/02/2024 18:30	Yes		Reduce planned activity level. No carting activities scheduled on the day
07/02/2024 19:30	Yes		Reduce planned activity level. No carting activities scheduled on this time period
08/02/2024 19:30	Yes		Reduce planned activity level. No carting activities scheduled on this period
10/02/2024 1:30	Yes		Reduce planned activity level. No carting activities scheduled on these times
13/02/2024 17:30		Yes	Assess potential for shifting operations to more favourable conditions. Carting of clay to be done before these times.
23/02/2024 19:30	Yes		Reduce planned activity level. No carting activities on this schedule
24/02/2024 10:30	Yes		Reduce planned activity level. Kilns are off and carting activities will be done after the event
26/02/2024 10:30	Yes		Assess potential for shifting operations to more favourable conditions. Carting activities will be done when weather conditions are better
28/02/2024 17:30		Yes	Assess potential for shifting operations to more favourable conditions. No more carting on these times
07/03/2024 6:30	Yes		Assess potential for shifting operations to more favourable conditions. No carting done on these times.
13/03/2024 2:30	Yes		Reduce planned activity level. No carting activities scheduled on these times.
15/03/2024 6:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on these times
20/03/2024 13:30	Yes		Reduce planned activity level. No carting activities scheduled
21/03/2024 4:30	Yes		Assess potential for shifting operations to more favourable conditions. Cart done before the high wind excursions

Date Time	Level- 1 Trigger wind speed $\geq 6\text{m/s}$ and $90 \leq$ wind direction ≤ 180	Level-2 Trigger wind speed $\geq 8\text{m/s}$	Response
23/03/2024 6:30	Yes		Reduce planned activity level. No scheduled carting activities on these times
28/03/2024 0:30	Yes		Reduce planned activity level. No carting activities scheduled on these times
01/04/2024 17:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on these times
02/04/2024 0:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on these times
23/04/2024 16:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on the day.
30/04/2024 6:30	Yes		Assess potential for shifting operations to more favourable conditions. Carting activities will be done after these times.
01/05/2024 14:30	Yes		Assess potential for shifting operations to more favourable conditions. Carting activities will be done before these times.
02/05/2024 10:30	Yes		Reduce planned activity level. Carting activities moved after the high wind forecast.
30/05/2024 11:30		Yes	Stop all activity in stockpile areas. Both kilns are off. No carting on this day.
11/06/2024 15:30		Yes	Stop all activity in stockpile areas. No clinker transfer from the shed on this day
25/06/2024 15:30		Yes	Alert shift employees that dust potential is elevated. Kiln-3 back running after short stoppage before this time
25/06/2024 15:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on this time
05/07/2024 15:30	Yes		Reduce planned activity level. No carting activities on these times
06/07/2024 3:30	Yes		Reduce planned activity level. No carting activities during these times

Date Time	Level- 1 Trigger wind speed $\geq 6\text{m/s}$ and $90 < \text{wind direction}$ ≤ 180	Level-2 Trigger wind speed $\geq 8\text{m/s}$	Response
19/07/2024 18:30		Yes	Assess potential for shifting operations to more favourable conditions. Carting activities will be done before these times
20/07/2024 6:30		Yes	Assess potential for shifting operations to more favourable conditions. Kiln-2 start-up dust carted when weather was better
24/07/2024 16:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on these times.
25/07/2024 13:30		Yes	Assess potential for shifting operations to more favourable conditions. Carting activities were done before these times
16/08/2024 17:30		Yes	Stop all activity in stockpile areas. No open carting activities scheduled on the day
17/08/2024 5:30		Yes	Stop all activity in stockpile areas. No open carting activities scheduled on these times
20/08/2024 17:30		Yes	Assess potential for shifting operations to more favourable conditions. Carting of Kiln-2 rejects will be done when weather is better
25/08/2024 16:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on these times
25/08/2024 23:30		Yes	Assess potential for shifting operations to more favourable conditions. Carting of K3 dust will be done when conditions are better
27/08/2024 17:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on these times
28/08/2024 5:30		Yes	Assess potential for shifting operations to more favourable conditions. Carting of Kiln-2 rejects to be done when wind conditions are better
30/08/2024 5:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on these times

Date Time	Level- 1 Trigger wind speed $\geq 6\text{m/s}$ and $90 \leq$ wind direction ≤ 180	Level-2 Trigger wind speed $\geq 8\text{m/s}$	Response
30/08/2024 17:30		Yes	Assess potential for shifting operations to more favourable conditions. Carting of K3 ckd to be done when weather is better
31/08/2024 5:30		Yes	Assess potential for shifting operations to more favourable conditions. Carting of Lepol bed done before high winds
01/09/2024 5:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on these times
02/09/2024 11:30		Yes	Assess potential for shifting operations to more favourable conditions. Carting of Kiln-3 bricks to be done when wind conditions are better
08/09/2024 13:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on these times
15/09/2024 5:30	Yes		Reduce planned activity level. No carting activities scheduled on these times
18/09/2024 12:30		Yes	Assess potential for shifting operations to more favourable conditions. Carting activities will be done before these times
20/09/2024 13:30		Yes	Stop all activity in stockpile areas. No carting activities scheduled on these times.
04/10/2024 13:30		Yes	Assess potential for shifting operations to more favourable conditions. Carting of dust done before the high winds
05/10/2024 16:30		Yes	Stop all activity in stockpile areas. Stop carting activities until better weather conditions
12/10/2024 5:30	Yes		Reduce planned activity level. No dust carting scheduled on these times
18/10/2024 14:30		Yes	Assess potential for shifting operations to more favourable conditions. Ckd carting done before high wind forecast