



**Adelaide Brighton Cement Ltd**

an **ADBRI** company

**adelaidebrighton.com.au**

Adelaide Brighton Cement Ltd  
ABN 96 007 870 199  
PO Box 77  
Port Adelaide SA 5015  
+61 8 8300 0300

## QUARTERLY AIR PARTICULATE MANAGEMENT REPORT FOR BIRKENHEAD WORKS

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**COMPLIANCE DATE: 31/10/23 – Quarter 3, 2023**  
**EPA Licence 1126: Dust Management Plan (U - 1549)**

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

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

**Date of Submission: 31 October 2023**

**Version Number: 1**



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

## Glossary

<b>Term</b>	<b>Definition</b>
$\mu\text{g}/\text{m}^3$	micrograms per cubic metre
$\mu\text{m}$	micrometre
$^{\circ}\text{C}$	degrees Celsius
m	metre
$\text{m}^3$	cubic metre
$\text{m}^3/\text{s}$	cubic metres per second

<b>Nomenclature</b>	<b>Definition</b>
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$\text{PM}_{10}$	Particulate matter with a diameter less than 10 micrometres
$\text{PM}_{2.5}$	Particulate matter with a diameter less than 2.5 micrometres
24 hour average	Calendar day (midnight to midnight)

<b>Abbreviations</b>	<b>Definition</b>
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ABC	Adelaide Brighton Cement
Air EPP	South Australian Environment Protection (Air Quality) Policy 2016
DMP	Dust Management Plan
EPA	Environment Protection Authority
TARP	Trigger Action Response Plan

<b>Purpose</b>	The purpose of the Air Particulate Management Plan (APMP) is to facilitate the ongoing implementation of dust control measures to minimise offsite dust from the Facility.
<b>Background Information</b>	<p>The APMP contains a Trigger Action Response Plan (TARP) to proactively manage fugitive dust emissions.</p> <p>The TARP uses three levels of trigger:</p> <ul style="list-style-type: none"> <li>• Low (watch and wait) – early warning to increase awareness of potential dust issues</li> <li>• Medium (investigate) – there may be a potential dust issue and investigate</li> <li>• High (escalate) – dust concentrations are higher than normal, and action may be required</li> </ul> <p>Triggers and responses have been defined for:</p> <ul style="list-style-type: none"> <li>• Ambient dust monitoring from on-site monitors</li> <li>• Meteorological parameters (forecasts and observations (e.g. extended dry period with less than 1 mm of rain over 20 days))</li> <li>• Visual observations</li> </ul> <p>Trigger levels and responses are documented in the Air Particulate Management Plan  All triggers associated responses and actions are captured in the Dust Management Dashboard and Control System, for reporting and analysis.</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>Reporting Objective</b>	<p>To report on actions taken in response to triggers defined in the Trigger Action Response Plan (TARP), contained within the approved Air Particulate Management Plan (APMP), including;</p> <ul style="list-style-type: none"> <li>• the date, time and trigger value exceeded</li> <li>• action and response strategies implemented</li> </ul> <p>To provide a summary report of 24-hour exceedances of PM<sub>10</sub> and PM<sub>2.5</sub> Air (EPP) criteria on ambient particulate monitors in the community.</p>

**Particulate  
Monitor  
Locations**



*Map showing sampling locations, major infrastructure, sensitive environmental receptors, and north arrow*

Sampling locations are indicated by colour-coded dots on the above map.

**NB:** Four sampling points are located on the Birkenhead Works site; the other sampling points are in the community (corner of Gunn/ Well streets and Community Park).

The property (not owned by ABC), on which the Gunn Street Monitor was located, was sold for redevelopment and was no longer available for use. As a consequence the monitor was removed on 28 June 2022. A new monitoring location is currently being determined.

<b>TARP Reports</b>	<p>Appendix 1, contains monthly TARP reports detailing the following;</p> <ul style="list-style-type: none"> <li>• date, time and trigger value exceeded</li> <li>• details of the response and action strategies implemented</li> </ul> <p>There were no alerts recorded for the Eastern grounds monitor in July. Investigation of this identified that the wind direction sensor had accumulated dust build up, causing intermittent wind measurement data. The wind sensor has been operating reliably and without issue since installation six years ago. The sensor has been operating effectively, following cleaning.</p> <p>This event has highlighted one questionable feature of ABC's dust management system, which is that when no wind direction data is available, no alert is generated at all, which is probably not ideal. ABC's Dust Management Dashboard and Control System has been reprogrammed to:</p> <ul style="list-style-type: none"> <li>• Create an alarm when there is no wind direction data and</li> <li>• To generating an alert, by assuming that the wind is blowing towards receptors when there is a PM10 concentration above an alert threshold when there is no valid wind direction record (a conservative approach)</li> </ul>
<b>Exceedance Reports</b>	<p>There were no 24-hour exceedances of PM<sub>10</sub> and PM<sub>2.5</sub> Air (EPP) criteria on ambient particulate monitors in the community, during this reporting period.</p>
<b>Summary</b>	<p>Summary of TARP alerts and actions for the quarter (refer to appendix 1):</p> <ul style="list-style-type: none"> <li>• A total of 140 trigger alerts were rased for the quarter</li> <li>• A total of 501 actions in response to the alerts were implemented for the quarter</li> <li>• An average of 3 actions per trigger</li> </ul> <p>This report confirms the current TARP is assisting in managing dust control measures to minimise offsite dust from the site.</p>
<b>Air Particulate Complaints</b>	<p>Air particulate related complaints for the reporting period are tabled below</p>

Date	Time	Location	Description	Action Taken
11/09/2023	11:01	Mary Street Birkenhead	Dust on car	Sample taken for analysis - cementitious material - car wash voucher provided
13/09/2023	12:56	Hargrave Street, Birkenhead	Dust on car	Sample taken for analysis - cementitious material - car wash voucher provided
13/09/2023	16:00	Hargrave Street, Birkenhead	Dust on car	Sample taken for analysis - cementitious material - car wash voucher provided
15/09/2023	13:35	Baker Street, Birkenhead	Dust on car	Sample taken for analysis - cementitious material - car wash voucher provided

Difficult to provide wind speed and direction data as specific time and date of occurrence was not available.

**Appendix 1**

TARP reports for July, August and September 2023

## Trigger Action Response Plan - Response Summary

The tables below show the triggers that were generated as part of the Adelaide Brighton Cement Trigger Action Response Plan (TARP) between 01 July, 2023 and 01 August, 2023 along with the resulting management actions taken.

### DT1 Southern Grounds

Trigger Time	Response	Action Taken	Action Recorded
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	01/07/23, 23:24
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	02/07/23, 01:02
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	02/07/23, 01:43
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	02/07/23, 03:08
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	02/07/23, 04:20
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	01/07/23, 23:24
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	02/07/23, 01:02
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	02/07/23, 01:43
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	02/07/23, 03:08
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	02/07/23, 04:20
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	01/07/23, 23:24
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	02/07/23, 01:02
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	02/07/23, 01:43
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	02/07/23, 03:08
Medium Trigger 02/07/23, 01:00 to 02/07/23, 04:20	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	02/07/23, 03:08
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	02/07/23, 04:20
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	02/07/23, 06:00

	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	02/07/23, 07:04
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	02/07/23, 07:04
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	02/07/23, 07:04
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	02/07/23, 07:21
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	02/07/23, 08:22
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	02/07/23, 09:24
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	02/07/23, 10:47
Medium Trigger 02/07/23, 05:00 to 02/07/23, 11:18	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	02/07/23, 11:18
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	03/07/23, 14:38
Low Trigger 03/07/23, 09:00 to 03/07/23, 14:38	Other	No action required - conditions already addressed	03/07/23, 14:38
Medium Trigger 09/07/23, 23:00 to 10/07/23, 06:47	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	10/07/23, 06:47
Low Trigger 12/07/23, 10:00 to 12/07/23, 10:25	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	12/07/23, 10:25
Low Trigger 12/07/23, 21:00 to 12/07/23, 21:24	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	12/07/23, 21:23
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	15/07/23, 22:17
Medium Trigger 15/07/23, 23:00 to 28/07/23, 10:49	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	16/07/23, 00:46
	Visual observations onsite to check if there are any significant visible dust emissions in the region of the exceeding monitor	Other (provide comments)	28/07/23, 10:48
Low Trigger 16/07/23, 02:00 to 16/07/23, 02:20	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	16/07/23, 02:20
	Other	No action required - other (provide comments)	16/07/23, 02:20
Low Trigger 16/07/23, 06:00 to 16/07/23, 06:54	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	16/07/23, 06:54
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	16/07/23, 21:28
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	16/07/23, 22:45
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	16/07/23, 23:24
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	17/07/23, 00:23
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	17/07/23, 01:15
Medium Trigger 16/07/23, 23:00 to 17/07/23, 02:32	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	17/07/23, 02:32
Low Trigger 17/07/23, 08:00 to 17/07/23, 10:44	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	17/07/23, 10:44
Low Trigger 18/07/23, 21:00 to 18/07/23, 22:20	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	18/07/23, 22:20
Low Trigger 24/07/23, 06:00 to 24/07/23, 07:16	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	24/07/23, 07:16



Low Trigger 25/07/23, 22:00 to 26/07/23, 01:04	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	25/07/23, 23:13
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	26/07/23, 01:03
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	25/07/23, 23:13
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	26/07/23, 01:03
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	25/07/23, 23:13
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	26/07/23, 01:03
Low Trigger 26/07/23, 10:00 to 26/07/23, 10:50	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	26/07/23, 10:50
Low Trigger 26/07/23, 22:00 to 28/07/23, 10:48	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	26/07/23, 23:15
Low Trigger 30/07/23, 00:00 to 30/07/23, 02:10	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	30/07/23, 02:09
	Other	No action required - conditions already addressed	30/07/23, 02:09

## **DT2 Eastern Grounds**

No triggers during this period

**DT3 Block 9**

Trigger Time	Response	Action Taken	Action Recorded
Low Trigger 02/07/23, 04:00 to 02/07/23, 04:20	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	02/07/23, 04:20

## DT5 Northern Grounds

Trigger Time	Response	Action Taken	Action Recorded
Low Trigger 29/06/23, 09:00 to 01/07/23, 08:23	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	01/07/23, 08:23
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	01/07/23, 23:24
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	02/07/23, 01:01
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	02/07/23, 01:43
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	02/07/23, 03:08
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	02/07/23, 04:20
Medium Trigger 01/07/23, 23:00 to 02/07/23, 06:01	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	02/07/23, 06:00
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	02/07/23, 11:18
Low Trigger 02/07/23, 11:00 to 02/07/23, 11:18	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	02/07/23, 11:18
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	03/07/23, 14:39
Low Trigger 03/07/23, 12:00 to 03/07/23, 14:39	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	03/07/23, 14:39
	Other	No action required - conditions already addressed	03/07/23, 14:39
High Trigger 15/07/23, 23:00 to 16/07/23, 05:11	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	15/07/23, 22:17
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	16/07/23, 00:46
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	16/07/23, 02:20
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	16/07/23, 02:20
	Visual observations onsite to check if there are any significant visible dust emissions in the region of the exceeding monitor	Checked for dust emissions in the area - no sources identified	16/07/23, 02:20
	Other	No action required - other (provide comments)	16/07/23, 02:20
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	16/07/23, 05:10
Medium Trigger 16/07/23, 23:00 to 17/07/23, 04:28	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	16/07/23, 23:25
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	17/07/23, 00:23
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	17/07/23, 01:15
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	17/07/23, 02:32
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	17/07/23, 03:27
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	17/07/23, 04:28
Low Trigger 18/07/23, 01:00 to 18/07/23, 02:28	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	18/07/23, 02:28
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	18/07/23, 22:20
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	18/07/23, 22:20

High Trigger 18/07/23, 22:00 to 19/07/23, 01:15	Visual observations onsite to check if there are any significant visible dust emissions in the region of the exceeding monitor	Checked for dust emissions in the area - no sources identified	18/07/23, 22:20
	Reduce the relevant dust producing activities or reschedule to more suitable meteorological conditions	No current activities	18/07/23, 22:20
	If dust mitigation equipment is unavailable or at fault, investigate temporary alternative management practices	Investigated temporary mitigation options	18/07/23, 22:20
	Mobilise water cart or apply additional water sprays	Other (provide comments)	18/07/23, 22:20
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	19/07/23, 01:15
Low Trigger 24/07/23, 00:00 to 24/07/23, 07:16	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	24/07/23, 07:16
Medium Trigger 25/07/23, 01:00 to 25/07/23, 02:29	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	25/07/23, 01:34
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	25/07/23, 02:29
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	25/07/23, 01:34
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	25/07/23, 02:29
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	25/07/23, 21:39
Medium Trigger 25/07/23, 22:00 to 25/07/23, 23:13	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	25/07/23, 23:12
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	25/07/23, 23:12
	Visual observations onsite to check if there are any significant visible dust emissions in the region of the exceeding monitor	Checked for dust emissions in the area - no sources identified	25/07/23, 23:12
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	25/07/23, 21:39
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	25/07/23, 23:12
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	25/07/23, 23:12
	Visual observations onsite to check if there are any significant visible dust emissions in the region of the exceeding monitor	Checked for dust emissions in the area - no sources identified	25/07/23, 23:12
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	30/07/23, 02:10
Medium Trigger 30/07/23, 00:00 to 30/07/23, 02:12	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	30/07/23, 02:10
	Visual observations onsite to check if there are any significant visible dust emissions in the region of the exceeding monitor	Checked for dust emissions in the area - no sources identified	30/07/23, 02:10
	Other	No action required - conditions already addressed	30/07/23, 02:10

## **Meteorology - Observations**

No triggers during this period

## Meteorology - Forecast

Trigger Time	Response	Action Taken	Action Recorded
Low Trigger 05/07/23, 18:00 to 05/07/23, 21:00	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	09/07/23, 09:09
Low Trigger 05/07/23, 21:00 to 06/07/23, 00:00	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	09/07/23, 09:09
Low Trigger 06/07/23, 00:00 to 06/07/23, 03:00	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	09/07/23, 09:09
Low Trigger 14/07/23, 00:00 to 14/07/23, 03:00	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	14/07/23, 07:47
Low Trigger 14/07/23, 03:00 to 14/07/23, 06:00	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	14/07/23, 07:47
Low Trigger 14/07/23, 06:00 to 14/07/23, 09:00	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	14/07/23, 07:47
Low Trigger 19/07/23, 06:00 to 19/07/23, 09:00	Assess potential for shifting operations to more favourable conditions	No current activities	19/07/23, 05:18
	Ensure water truck is on standby to apply water	Water truck is operational	19/07/23, 05:18
	Pre-emptive watering of stockpiles before handling	Watering not required	19/07/23, 05:18
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	19/07/23, 05:18
Low Trigger 19/07/23, 09:00 to 19/07/23, 12:00	Assess potential for shifting operations to more favourable conditions	No current activities	19/07/23, 05:18
	Ensure water truck is on standby to apply water	Water truck is operational	19/07/23, 05:18
	Pre-emptive watering of stockpiles before handling	Watering not required	19/07/23, 05:18
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	19/07/23, 05:18
Low Trigger 19/07/23, 18:00 to 19/07/23, 21:00	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	19/07/23, 19:07
	Ensure water truck is on standby to apply water	Water truck is on standby	19/07/23, 19:07
Medium Trigger 19/07/23, 21:00 to 20/07/23, 00:00	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	19/07/23, 19:07
	Ensure water truck is on standby to apply water	Water truck is on standby	19/07/23, 19:07
High Trigger 20/07/23, 00:00 to 20/07/23, 03:00	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	19/07/23, 19:07
	Ensure water truck is on standby to apply water	Water truck is on standby	19/07/23, 19:07
Low Trigger 23/07/23, 00:00 to 23/07/23, 03:00	Assess potential for shifting operations to more favourable conditions	No current activities	22/07/23, 18:43
	Ensure water truck is on standby to apply water	Water truck is on standby	22/07/23, 18:43
	Pre-emptive watering of stockpiles before handling	Watering not required	22/07/23, 18:43
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	22/07/23, 18:43

## Visual Observations

No triggers during this period



## Trigger Action Response Plan - Response Summary

The tables below show the triggers that were generated as part of the Adelaide Brighton Cement Trigger Action Response Plan (TARP) between 01 August, 2023 and 01 September, 2023 along with the resulting management actions taken.

### DT1 Southern Grounds

Trigger Time	Response	Action Taken	Action Recorded
Medium Trigger 01/08/23, 23:00 to 02/08/23, 06:49	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	01/08/23, 23:21
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	02/08/23, 06:47
Low Trigger 06/08/23, 22:00 to 07/08/23, 06:31	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	07/08/23, 06:31
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	07/08/23, 06:31
Low Trigger 07/08/23, 22:00 to 08/08/23, 07:34	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	08/08/23, 07:34
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	08/08/23, 07:34
Low Trigger 08/08/23, 03:00 to 08/08/23, 07:34	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	08/08/23, 07:34
Low Trigger 08/08/23, 09:00 to 08/08/23, 09:52	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	08/08/23, 09:52
Low Trigger 10/08/23, 21:00 to 10/08/23, 22:45	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	10/08/23, 22:44
Low Trigger 10/08/23, 23:00 to 11/08/23, 01:17	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	11/08/23, 01:17
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	11/08/23, 01:17
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	12/08/23, 03:45
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	12/08/23, 04:57
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	12/08/23, 03:45
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	12/08/23, 04:57
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	12/08/23, 04:57
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	12/08/23, 03:45

Low Trigger 12/08/23, 02:00 to 12/08/23, 04:57	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	12/08/23, 04:57
Low Trigger 14/08/23, 07:00 to 15/08/23, 07:56	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	15/08/23, 07:56
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	15/08/23, 07:56
Low Trigger 15/08/23, 22:00 to 16/08/23, 06:48	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	16/08/23, 06:48
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	17/08/23, 08:06
Medium Trigger 16/08/23, 22:00 to 17/08/23, 08:06	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	17/08/23, 08:06
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	24/08/23, 04:51
Low Trigger 23/08/23, 23:00 to 24/08/23, 04:51	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	24/08/23, 04:51
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	27/08/23, 07:07
Low Trigger 25/08/23, 22:00 to 27/08/23, 07:07	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	27/08/23, 07:07
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	27/08/23, 07:08
Low Trigger 27/08/23, 03:00 to 27/08/23, 07:08	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	28/08/23, 02:26
Low Trigger 28/08/23, 02:00 to 28/08/23, 02:26	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	28/08/23, 05:24
Low Trigger 28/08/23, 04:00 to 28/08/23, 05:24	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	28/08/23, 22:29
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	28/08/23, 23:32
Medium Trigger 28/08/23, 23:00 to 28/08/23, 23:32	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	29/08/23, 01:52
Low Trigger 29/08/23, 01:00 to 29/08/23, 01:52	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	

## DT2 Eastern Grounds

Trigger Time	Response	Action Taken	Action Recorded
Low Trigger 06/08/23, 21:00 to 07/08/23, 06:30	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	07/08/23, 06:30
Medium Trigger 08/08/23, 01:00 to 08/08/23, 07:34	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	08/08/23, 07:34
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	08/08/23, 07:34
Medium Trigger 08/08/23, 06:00 to 08/08/23, 07:34	Visual observations onsite to check if there are any significant visible dust emissions in the region of the exceeding monitor	Checked for dust emissions in the area - no sources identified	08/08/23, 07:34
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	08/08/23, 07:34
Medium Trigger 08/08/23, 06:00 to 08/08/23, 07:34	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	08/08/23, 07:34
	Visual observations onsite to check if there are any significant visible dust emissions in the region of the exceeding monitor	Checked for dust emissions in the area - no sources identified	08/08/23, 07:34
Medium Trigger 09/08/23, 11:00 to 10/08/23, 13:50	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	09/08/23, 11:28
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	09/08/23, 11:28
	Visual observations onsite to check if there are any significant visible dust emissions in the region of the exceeding monitor	Checked for dust emissions in the area - no sources identified	09/08/23, 11:28
Low Trigger 10/08/23, 22:00 to 10/08/23, 22:45	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	10/08/23, 22:45
Low Trigger 11/08/23, 00:00 to 11/08/23, 01:17	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	11/08/23, 01:17
Medium Trigger 12/08/23, 00:00 to 12/08/23, 03:44	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	12/08/23, 03:44
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	12/08/23, 03:44
	Visual observations onsite to check if there are any significant visible dust emissions in the region of the exceeding monitor	Checked for dust emissions in the area - no sources identified	12/08/23, 03:44
Low Trigger 12/08/23, 02:00 to 12/08/23, 03:45	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	12/08/23, 03:44
Medium Trigger 14/08/23, 06:00 to 15/08/23, 07:56	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	15/08/23, 07:56
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	15/08/23, 07:56
Medium Trigger 16/08/23, 21:00 to 17/08/23, 08:05	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	16/08/23, 19:23
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	17/08/23, 08:05
Medium Trigger 23/08/23, 22:00 to 24/08/23, 04:50	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	23/08/23, 21:37
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	24/08/23, 04:50
Low Trigger 25/08/23, 22:00 to 27/08/23, 07:07	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	27/08/23, 07:07
Medium Trigger 26/08/23, 01:00 to 27/08/23, 07:08	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	27/08/23, 07:07
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	27/08/23, 07:07
Low Trigger 26/08/23, 04:00 to 27/08/23, 07:08	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	27/08/23, 07:08

Low Trigger 26/08/23, 21:00 to 27/08/23, 07:08	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	27/08/23, 07:08
Low Trigger 28/08/23, 00:00 to 28/08/23, 00:23	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	28/08/23, 00:23
Low Trigger 28/08/23, 11:00 to 28/08/23, 16:26	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	28/08/23, 16:25
	Other	No action required - conditions already addressed	28/08/23, 16:25
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	28/08/23, 16:25
	Other	No action required - conditions already addressed	28/08/23, 16:25
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	28/08/23, 19:31
Medium Trigger 28/08/23, 20:00 to 28/08/23, 22:31	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	28/08/23, 19:35
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	28/08/23, 20:16
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	28/08/23, 22:30
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	28/08/23, 19:31
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	28/08/23, 19:35
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	28/08/23, 20:16
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	28/08/23, 22:30
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	28/08/23, 19:31
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	28/08/23, 19:35
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	28/08/23, 20:16
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	28/08/23, 22:30
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	01/09/23, 07:29
	Medium Trigger 29/08/23, 14:00 to 01/09/23, 07:30	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted
Low Trigger 29/08/23, 18:00 to 01/09/23, 07:30	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	01/09/23, 07:30
Low Trigger 29/08/23, 21:00 to 01/09/23, 07:30	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	01/09/23, 07:30
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	01/09/23, 07:30

**DT3 Block 9**

No triggers during this period

## DT5 Northern Grounds

Trigger Time	Response	Action Taken	Action Recorded
High Trigger 01/08/23, 21:00 to 01/08/23, 23:21	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	01/08/23, 21:22
	Ensure all routine dust management practices have been implemented	Other (provide comments)	01/08/23, 21:22
	Visual observations onsite to check if there are any significant visible dust emissions in the region of the exceeding monitor	Checked for dust emissions in the area - no sources identified	01/08/23, 21:22
	Reduce the relevant dust producing activities or reschedule to more suitable meteorological conditions	No current activities	01/08/23, 21:22
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	01/08/23, 23:21
Low Trigger 05/08/23, 21:00 to 05/08/23, 21:28	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	05/08/23, 21:28
Medium Trigger 06/08/23, 22:00 to 07/08/23, 06:30	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	07/08/23, 06:30
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	07/08/23, 06:30
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	07/08/23, 06:30
High Trigger 07/08/23, 22:00 to 08/08/23, 07:34	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	08/08/23, 07:33
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	08/08/23, 07:33
	Visual observations onsite to check if there are any significant visible dust emissions in the region of the exceeding monitor	Checked for dust emissions in the area - no sources identified	08/08/23, 07:33
Medium Trigger 11/08/23, 00:00 to 11/08/23, 01:17	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	11/08/23, 01:17
Low Trigger 11/08/23, 21:00 to 12/08/23, 03:44	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	12/08/23, 03:44
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	12/08/23, 03:45
Medium Trigger 12/08/23, 03:00 to 12/08/23, 04:57	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	12/08/23, 03:45
	Visual observations onsite to check if there are any significant visible dust emissions in the region of the exceeding monitor	Checked for dust emissions in the area - no sources identified	12/08/23, 03:45
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	12/08/23, 04:57
Medium Trigger 12/08/23, 17:00 to 13/08/23, 08:16	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	13/08/23, 08:16
Low Trigger 12/08/23, 20:00 to 13/08/23, 08:16	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	13/08/23, 08:16
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	13/08/23, 08:16
Medium Trigger 14/08/23, 08:00 to 15/08/23, 07:56	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	15/08/23, 07:56
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	15/08/23, 07:56
Low Trigger 14/08/23, 22:00 to 15/08/23, 07:56	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	15/08/23, 07:56
Low Trigger 15/08/23, 02:00 to 15/08/23, 07:57	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	15/08/23, 07:56
High Trigger 15/08/23, 21:00 to 16/08/23, 06:48	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	16/08/23, 06:48

High Trigger 16/08/23, 23:00 to 17/08/23, 08:06	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	17/08/23, 08:05
Low Trigger 23/08/23, 02:00 to 23/08/23, 19:02	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	23/08/23, 19:02
Medium Trigger 23/08/23, 23:00 to 24/08/23, 04:51	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	24/08/23, 04:51
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	24/08/23, 04:51
	Visual observations onsite to check if there are any significant visible dust emissions in the region of the exceeding monitor	Checked for dust emissions in the area - no sources identified	24/08/23, 04:51
High Trigger 25/08/23, 23:00 to 27/08/23, 07:07	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	27/08/23, 07:07
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	27/08/23, 07:07
Low Trigger 26/08/23, 08:00 to 27/08/23, 07:08	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	27/08/23, 07:08
Low Trigger 26/08/23, 22:00 to 27/08/23, 07:08	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	27/08/23, 07:08
Low Trigger 28/08/23, 00:00 to 28/08/23, 01:16	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	28/08/23, 00:22
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	28/08/23, 01:15
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	28/08/23, 00:22
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	28/08/23, 01:15
Low Trigger 28/08/23, 16:00 to 28/08/23, 16:26	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	28/08/23, 16:26
	Other	No action required - conditions already addressed	28/08/23, 16:26
High Trigger 28/08/23, 21:00 to 28/08/23, 23:32	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	28/08/23, 22:30
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	28/08/23, 23:32
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	28/08/23, 22:30
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	28/08/23, 23:32

## **Meteorology - Observations**

No triggers during this period



## Meteorology - Forecast

Trigger Time	Response	Action Taken	Action Recorded
Low Trigger 02/08/23, 21:00 to 03/08/23, 00:00	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	02/08/23, 17:37
	Ensure water truck is on standby to apply water	Water truck is on standby	02/08/23, 17:37
Low Trigger 03/08/23, 12:00 to 03/08/23, 15:00	Assess potential for shifting operations to more favourable conditions	No current activities	03/08/23, 05:37
	Ensure water truck is on standby to apply water	Water truck is operational	03/08/23, 05:37
	Pre-emptive watering of stockpiles before handling	Watering not required	03/08/23, 05:37
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	03/08/23, 05:37
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	03/08/23, 05:37
	Additional watering if warranted	Additional watering not required	03/08/23, 05:37
	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	03/08/23, 17:23
Medium Trigger 03/08/23, 15:00 to 03/08/23, 18:00	Ensure water truck is on standby to apply water	Water truck is on standby	03/08/23, 17:23
	Assess potential for shifting operations to more favourable conditions	No current activities	03/08/23, 05:37
	Ensure water truck is on standby to apply water	Water truck is operational	03/08/23, 05:37
	Pre-emptive watering of stockpiles before handling	Watering not required	03/08/23, 05:37
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	03/08/23, 05:37
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	03/08/23, 05:37
	Additional watering if warranted	Additional watering not required	03/08/23, 05:37
High Trigger 03/08/23, 18:00 to 03/08/23, 21:00	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	03/08/23, 17:23
	Ensure water truck is on standby to apply water	Water truck is on standby	03/08/23, 17:23
	Assess potential for shifting operations to more favourable conditions	No current activities	03/08/23, 05:37
	Ensure water truck is on standby to apply water	Water truck is operational	03/08/23, 05:37
	Pre-emptive watering of stockpiles before handling	Watering not required	03/08/23, 05:37
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	03/08/23, 05:37
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	03/08/23, 05:37
Medium Trigger 09/08/23, 09:00 to 09/08/23, 12:00	Additional watering if warranted	Additional watering not required	03/08/23, 05:37
	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	03/08/23, 17:23
	Ensure water truck is on standby to apply water	Water truck is on standby	03/08/23, 17:23
	Assess potential for shifting operations to more favourable conditions	No current activities	09/08/23, 06:50
	Ensure water truck is on standby to apply water	Water truck is operational	09/08/23, 06:50
Medium Trigger 09/08/23, 09:00 to 09/08/23, 12:00	Pre-emptive watering of stockpiles before handling	Watering not required	09/08/23, 06:50
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	09/08/23, 06:50
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	09/08/23, 06:50
	Additional watering if warranted	Additional watering not required	09/08/23, 06:50

## Visual Observations

No triggers during this period

## Trigger Action Response Plan - Response Summary

The tables below show the triggers that were generated as part of the Adelaide Brighton Cement Trigger Action Response Plan (TARP) between 01 September, 2023 and 01 October, 2023 along with the resulting management actions taken.

### DT1 Southern Grounds

Trigger Time	Response	Action Taken	Action Recorded
Medium Trigger 09/09/23, 23:00 to 10/09/23, 07:14	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	10/09/23, 07:14
Low Trigger 10/09/23, 04:00 to 10/09/23, 07:14	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	10/09/23, 07:14
Medium Trigger 10/09/23, 07:00 to 10/09/23, 07:14	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	10/09/23, 07:14
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	10/09/23, 07:14
	Visual observations onsite to check if there are any significant visible dust emissions in the region of the exceeding monitor	Checked for dust emissions in the area - no sources identified	10/09/23, 07:14
Low Trigger 10/09/23, 09:00 to 10/09/23, 09:35	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	10/09/23, 09:35
Low Trigger 11/09/23, 22:00 to 11/09/23, 22:41	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	11/09/23, 22:41
Low Trigger 12/09/23, 21:00 to 12/09/23, 22:37	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	12/09/23, 21:41
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	12/09/23, 22:37
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	12/09/23, 21:41
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	12/09/23, 22:37
Low Trigger 13/09/23, 08:00 to 14/09/23, 09:36	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	14/09/23, 09:33
Low Trigger 13/09/23, 20:00 to 14/09/23, 09:42	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	14/09/23, 09:42
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	14/09/23, 09:42
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	14/09/23, 09:42
Low Trigger 14/09/23, 11:00 to 14/09/23, 20:17	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	14/09/23, 20:17
Low Trigger 15/09/23, 23:00 to 16/09/23, 04:06	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	16/09/23, 04:05

Low Trigger 16/09/23, 04:00 to 16/09/23, 05:12	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	16/09/23, 05:12
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	16/09/23, 05:12
Low Trigger 17/09/23, 00:00 to 17/09/23, 02:56	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	17/09/23, 02:55
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	17/09/23, 02:55
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	17/09/23, 02:55
Low Trigger 17/09/23, 05:00 to 17/09/23, 06:06	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	17/09/23, 06:06
Low Trigger 17/09/23, 07:00 to 17/09/23, 07:19	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	17/09/23, 07:19
Low Trigger 17/09/23, 21:00 to 18/09/23, 22:05	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	18/09/23, 22:05
Low Trigger 18/09/23, 08:00 to 18/09/23, 22:05	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	18/09/23, 22:05
Low Trigger 26/09/23, 08:00 to 26/09/23, 10:07	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	26/09/23, 08:36
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	26/09/23, 10:07
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	26/09/23, 08:36
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	26/09/23, 10:07
Low Trigger 26/09/23, 20:00 to 27/09/23, 07:14	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	27/09/23, 07:14
Low Trigger 28/09/23, 21:00 to 28/09/23, 23:19	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	28/09/23, 23:19
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	28/09/23, 23:19
Low Trigger 29/09/23, 22:00 to 29/09/23, 22:19	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	29/09/23, 22:19
Low Trigger 30/09/23, 00:00 to 30/09/23, 01:29	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	30/09/23, 00:19
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	30/09/23, 00:19
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	30/09/23, 01:29

## DT2 Eastern Grounds

Trigger Time	Response	Action Taken	Action Recorded
Medium Trigger 29/08/23, 14:00 to 01/09/23, 07:30	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	01/09/23, 07:29
Low Trigger 29/08/23, 18:00 to 01/09/23, 07:30	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	01/09/23, 07:30
Low Trigger 29/08/23, 21:00 to 01/09/23, 07:30	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	01/09/23, 07:30
Low Trigger 29/08/23, 21:00 to 01/09/23, 07:30	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	01/09/23, 07:30
Low Trigger 04/09/23, 04:00 to 04/09/23, 04:55	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	04/09/23, 04:55
Medium Trigger 06/09/23, 11:00 to 08/09/23, 06:30	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	08/09/23, 06:30
Low Trigger 13/09/23, 20:00 to 14/09/23, 09:41	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	14/09/23, 09:41
Medium Trigger 14/09/23, 12:00 to 14/09/23, 20:17	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	14/09/23, 20:17
Low Trigger 14/09/23, 19:00 to 14/09/23, 20:17	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	14/09/23, 20:17
Low Trigger 14/09/23, 19:00 to 14/09/23, 20:17	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	14/09/23, 20:17
Low Trigger 15/09/23, 23:00 to 16/09/23, 04:05	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	16/09/23, 04:05
Low Trigger 17/09/23, 03:00 to 17/09/23, 06:06	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	17/09/23, 06:05
Medium Trigger 25/09/23, 00:00 to 25/09/23, 00:19	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	25/09/23, 00:19
High Trigger 25/09/23, 15:00 to 25/09/23, 15:21	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	25/09/23, 15:21
Low Trigger 25/09/23, 19:00 to 25/09/23, 19:23	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	25/09/23, 19:23
High Trigger 25/09/23, 22:00 to 25/09/23, 22:21	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	25/09/23, 22:20
Medium Trigger 26/09/23, 09:00 to 26/09/23, 10:06	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	26/09/23, 10:03
Medium Trigger 26/09/23, 09:00 to 26/09/23, 10:06	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	26/09/23, 10:03
Low Trigger 26/09/23, 20:00 to 27/09/23, 07:14	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	27/09/23, 07:14
Low Trigger 28/09/23, 21:00 to 28/09/23, 23:19	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	28/09/23, 23:19

**DT3 Block 9**

No triggers during this period

## DT5 Northern Grounds

Trigger Time	Response	Action Taken	Action Recorded
High Trigger 09/09/23, 23:00 to 10/09/23, 07:13	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	10/09/23, 07:13
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	10/09/23, 07:13
	Visual observations onsite to check if there are any significant visible dust emissions in the region of the exceeding monitor	Checked for dust emissions in the area - no sources identified	10/09/23, 07:13
Low Trigger 10/09/23, 07:00 to 10/09/23, 07:14	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	10/09/23, 07:14
Low Trigger 11/09/23, 07:00 to 11/09/23, 07:25	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	11/09/23, 07:25
High Trigger 11/09/23, 21:00 to 11/09/23, 21:49	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	11/09/23, 20:27
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	11/09/23, 20:27
	Visual observations onsite to check if there are any significant visible dust emissions in the region of the exceeding monitor	Checked for dust emissions in the area - no sources identified	11/09/23, 20:27
Medium Trigger 12/09/23, 21:00 to 12/09/23, 22:37	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	12/09/23, 21:41
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	12/09/23, 21:41
	Visual observations onsite to check if there are any significant visible dust emissions in the region of the exceeding monitor	Checked for dust emissions in the area - no sources identified	12/09/23, 21:41
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	12/09/23, 22:37
Medium Trigger 13/09/23, 20:00 to 14/09/23, 09:42	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	14/09/23, 09:41
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	14/09/23, 09:41
	Visual observations onsite to check if there are any significant visible dust emissions in the region of the exceeding monitor	Checked for dust emissions in the area - no sources identified	14/09/23, 09:41
Low Trigger 13/09/23, 22:00 to 14/09/23, 09:42	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	14/09/23, 09:42
Low Trigger 14/09/23, 11:00 to 14/09/23, 20:17	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	14/09/23, 20:17
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	14/09/23, 20:17
Low Trigger 15/09/23, 10:00 to 15/09/23, 15:30	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	15/09/23, 15:30
Low Trigger 16/09/23, 00:00 to 16/09/23, 04:06	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	16/09/23, 04:06
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	16/09/23, 23:47
High Trigger 16/09/23, 23:00 to 17/09/23, 02:55	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	16/09/23, 23:47
	Visual observations onsite to check if there are any significant visible dust emissions in the region of the exceeding monitor	Checked for dust emissions in the area - no sources identified	16/09/23, 23:47
	Reduce the relevant dust producing activities or reschedule to more suitable meteorological conditions	No current activities	16/09/23, 23:47
	If dust mitigation equipment is unavailable or at fault, investigate temporary alternative management practices	Other (provide comments)	16/09/23, 23:47
	Mobilise water cart or apply additional water sprays	Other (provide comments)	16/09/23, 23:47
	Other	No action required - regional dust event	16/09/23, 23:47
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	17/09/23, 02:55

Medium Trigger 17/09/23, 06:00 to 17/09/23, 06:24	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	17/09/23, 06:24	
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	17/09/23, 06:24	
	Visual observations onsite to check if there are any significant visible dust emissions in the region of the exceeding monitor	Checked for dust emissions in the area - no sources identified	17/09/23, 06:24	
Low Trigger 17/09/23, 20:00 to 18/09/23, 22:06	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	18/09/23, 22:05	
Low Trigger 21/09/23, 10:00 to 21/09/23, 11:51	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	21/09/23, 11:50	
	Other	No action required - conditions already addressed	21/09/23, 11:50	
Medium Trigger 21/09/23, 21:00 to 21/09/23, 21:13	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	21/09/23, 21:13	
Low Trigger 22/09/23, 20:00 to 22/09/23, 20:22	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	22/09/23, 20:22	
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	23/09/23, 21:41	
High Trigger 23/09/23, 21:00 to 23/09/23, 21:42	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	23/09/23, 21:41	
	Visual observations onsite to check if there are any significant visible dust emissions in the region of the exceeding monitor	Checked for dust emissions in the area - no sources identified	23/09/23, 21:41	
	Reduce the relevant dust producing activities or reschedule to more suitable meteorological conditions	Reduced activity rates	23/09/23, 21:41	
	If dust mitigation equipment is unavailable or at fault, investigate temporary alternative management practices	Investigated temporary mitigation options	23/09/23, 21:41	
	Mobilise water cart or apply additional water sprays	Other (provide comments)	23/09/23, 21:41	
	Other	No action required - conditions already addressed	23/09/23, 21:41	
	Low Trigger 25/09/23, 22:00 to 25/09/23, 22:21	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	25/09/23, 22:21
	Low Trigger 26/09/23, 03:00 to 26/09/23, 04:02	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	26/09/23, 04:02
Medium Trigger 26/09/23, 09:00 to 26/09/23, 10:07	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	26/09/23, 10:07	
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	26/09/23, 10:07	
Low Trigger 26/09/23, 20:00 to 27/09/23, 07:14	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	27/09/23, 07:14	
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	28/09/23, 23:17	
High Trigger 28/09/23, 21:00 to 28/09/23, 23:19	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	28/09/23, 23:17	
	Visual observations onsite to check if there are any significant visible dust emissions in the region of the exceeding monitor	Checked for dust emissions in the area - no sources identified	28/09/23, 23:17	
	Reduce the relevant dust producing activities or reschedule to more suitable meteorological conditions	No current activities	28/09/23, 23:17	
Medium Trigger 29/09/23, 05:00 to 29/09/23, 05:48	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	29/09/23, 05:48	
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	29/09/23, 05:48	
Low Trigger 29/09/23, 08:00 to 29/09/23, 10:15	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	29/09/23, 10:14	
	Other	No action required - conditions already addressed	29/09/23, 10:14	
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	29/09/23, 20:20	
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	29/09/23, 21:25	
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	29/09/23, 22:19	



High Trigger 29/09/23, 21:00 to 30/09/23, 00:19	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	29/09/23, 23:16
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	30/09/23, 00:18
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	29/09/23, 20:20
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	29/09/23, 21:25
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	29/09/23, 22:19
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	29/09/23, 23:16
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	30/09/23, 00:18
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	

## **Meteorology - Observations**

No triggers during this period

## Meteorology - Forecast

Trigger Time	Response	Action Taken	Action Recorded
Low Trigger 03/09/23, 09:00 to 03/09/23, 12:00	Assess potential for shifting operations to more favourable conditions	No current activities	03/09/23, 18:37
	Ensure water truck is on standby to apply water	Water truck is operational	03/09/23, 18:37
	Pre-emptive watering of stockpiles before handling	Watering not required	03/09/23, 18:37
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	03/09/23, 18:37
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	03/09/23, 18:37
	Additional watering if warranted	Additional watering not required	03/09/23, 18:37
	Review ambient monitoring PM10 levels	Ambient monitoring being reviewed	03/09/23, 18:37
Medium Trigger 03/09/23, 12:00 to 03/09/23, 15:00	Assess potential for shifting operations to more favourable conditions	No current activities	03/09/23, 18:37
	Ensure water truck is on standby to apply water	Water truck is operational	03/09/23, 18:37
	Pre-emptive watering of stockpiles before handling	Watering not required	03/09/23, 18:37
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	03/09/23, 18:37
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	03/09/23, 18:37
	Additional watering if warranted	Additional watering not required	03/09/23, 18:37
	Review ambient monitoring PM10 levels	Ambient monitoring being reviewed	03/09/23, 18:37
Low Trigger 03/09/23, 15:00 to 03/09/23, 18:00	Assess potential for shifting operations to more favourable conditions	No current activities	03/09/23, 18:37
	Ensure water truck is on standby to apply water	Water truck is operational	03/09/23, 18:37
	Pre-emptive watering of stockpiles before handling	Watering not required	03/09/23, 18:37
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	03/09/23, 18:37
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	03/09/23, 18:37
	Additional watering if warranted	Additional watering not required	03/09/23, 18:37
	Review ambient monitoring PM10 levels	Ambient monitoring being reviewed	03/09/23, 18:37
High Trigger 03/09/23, 18:00 to 03/09/23, 21:00	Assess potential for shifting operations to more favourable conditions	No current activities	03/09/23, 18:37
	Ensure water truck is on standby to apply water	Water truck is operational	03/09/23, 18:37
	Pre-emptive watering of stockpiles before handling	Watering not required	03/09/23, 18:37
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	03/09/23, 18:37
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	03/09/23, 18:37
	Additional watering if warranted	Additional watering not required	03/09/23, 18:37
	Review ambient monitoring PM10 levels	Ambient monitoring being reviewed	03/09/23, 18:37
Medium Trigger 03/09/23, 21:00 to 04/09/23, 00:00	Assess potential for shifting operations to more favourable conditions	No current activities	03/09/23, 18:37
	Ensure water truck is on standby to apply water	Water truck is operational	03/09/23, 18:37
	Pre-emptive watering of stockpiles before handling	Watering not required	03/09/23, 18:37
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	03/09/23, 18:37
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	03/09/23, 18:37
	Additional watering if warranted	Additional watering not required	03/09/23, 18:37
	Review ambient monitoring PM10 levels	Ambient monitoring being reviewed	03/09/23, 18:37
Medium Trigger 06/09/23, 15:00 to 06/09/23, 18:00	Assess potential for shifting operations to more favourable conditions	No current activities	08/09/23, 06:30
	Ensure water truck is on standby to apply water	Water truck is on standby	08/09/23, 06:30
	Pre-emptive watering of stockpiles before handling	Watering not required	08/09/23, 06:30
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	08/09/23, 06:30
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	08/09/23, 06:30
Low Trigger 14/09/23, 00:00 to 14/09/23, 03:00	Additional watering if warranted	Additional watering not required	08/09/23, 06:30
	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	14/09/23, 09:42
	Ensure water truck is on standby to apply water	Water truck is operational	14/09/23, 09:42
	Pre-emptive watering of stockpiles before handling	Watering completed	14/09/23, 09:42
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	14/09/23, 09:42
Low Trigger 14/09/23, 03:00 to 14/09/23, 06:00	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	14/09/23, 09:42
	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	14/09/23, 09:42
	Ensure water truck is on standby to apply water	Water truck is operational	14/09/23, 09:42
	Pre-emptive watering of stockpiles before handling	Watering completed	14/09/23, 09:42
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	14/09/23, 09:42

Medium Trigger 14/09/23, 09:00 to 14/09/23, 12:00	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	14/09/23, 09:37
	Ensure water truck is on standby to apply water	Water truck is on standby	14/09/23, 09:37
	Pre-emptive watering of stockpiles before handling	Watering not required	14/09/23, 09:37
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	14/09/23, 09:37
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	14/09/23, 09:37
	Additional watering if warranted	Additional watering not required	14/09/23, 09:37
	Review ambient monitoring PM10 levels	Ambient monitoring being reviewed	14/09/23, 09:37
	Other	No action required - conditions already addressed	14/09/23, 09:37
High Trigger 14/09/23, 12:00 to 14/09/23, 15:00	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	14/09/23, 09:37
	Ensure water truck is on standby to apply water	Water truck is on standby	14/09/23, 09:37
	Pre-emptive watering of stockpiles before handling	Watering not required	14/09/23, 09:37
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	14/09/23, 09:37
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	14/09/23, 09:37
	Additional watering if warranted	Additional watering not required	14/09/23, 09:37
	Review ambient monitoring PM10 levels	Ambient monitoring being reviewed	14/09/23, 09:37
	Other	No action required - conditions already addressed	14/09/23, 09:37
High Trigger 14/09/23, 15:00 to 14/09/23, 18:00	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	14/09/23, 09:37
	Ensure water truck is on standby to apply water	Water truck is on standby	14/09/23, 09:37
	Pre-emptive watering of stockpiles before handling	Watering not required	14/09/23, 09:37
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	14/09/23, 09:37
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	14/09/23, 09:37
	Additional watering if warranted	Additional watering not required	14/09/23, 09:37
	Review ambient monitoring PM10 levels	Ambient monitoring being reviewed	14/09/23, 09:37
	Other	No action required - conditions already addressed	14/09/23, 09:37
Low Trigger 30/09/23, 18:00 to 30/09/23, 21:00	Assess potential for shifting operations to more favourable conditions	No current activities	30/09/23, 18:17

## Visual Observations

No triggers during this period