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# QUARTERLY AIR PARTICULATE MANAGEMENT REPORT FOR BIRKENHEAD WORKS

# **COMPLIANCE DATE:** 31/10/24 - Quarter 3, 2024 **EPA Licence 1126:** Air Particulate Management Plan (U - 1549)

Licensed site: Adelaide Brighton Cement, Birkenhead Works

62 Elder Road, Birkenhead, SA 5015

Date of Submission: 31 October 2024

**Version Number:** 1



Report Submitted by: Business Partner - Environment

### Glossary

Term	Definition
μg/m³	micrograms per cubic metre
μm	micrometre
°C	degrees Celsius
m	metre
m <sup>3</sup>	cubic metre
m³/s	cubic metres per second
Nomenclature	Definition
PM <sub>10</sub>	Particulate matter with a diameter less than 10 micrometres
PM <sub>2.5</sub>	Particulate matter with a diameter less than 2.5 micrometres
TSP	Total Suspended Particulate
24 hour average	Calendar day (midnight to midnight)
Abbreviations	Definition
ABC Air EPP DMP EPA TARP	Adelaide Brighton Cement South Australian Environment Protection (Air Quality) Policy 2016 Dust Management Plan Environment Protection Authority Trigger Action Response Plan
.,	gg

Purpose	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.
Background	The APMP contains a Trigger Action Response Plan (TARP) to proactively manage fugitive dust emissions.
Information	The TARP uses three levels of trigger:
	<ul> <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>
	Triggers and responses have been defined for:
	<ul> <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>
	Trigger levels and responses are documented in the Air Particulate Management Plan All triggers and associated responses and actions are captured in the Dust Management Dashboard and Control System, for reporting and analysis.
	The APMP is available on the ABC Birkenhead Community Website: <a href="https://adelaidebrightoncommunity.com.au/">https://adelaidebrightoncommunity.com.au/</a>
Reporting Objective	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;
•	<ul> <li>the date, time and trigger value exceeded</li> <li>action and response strategies implemented</li> </ul>
	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.

#### Particulate Monitoring Locations



Map showing sampling locations, major infrastructure, sensitive environmental receptors, and north arrow Monitoring locations are indicated by colour-coded dots on the above map.

**NB**: Four sampling points are located on the Birkenhead Works site; the other monitoring locations are in the community (Community Park), and Corner of Walton Street and Mary Street.

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. After a period of negotiating with the EPA and discussion with City of Port Adelaide Enfield Council, Adbri initiated the application process for installation of a permanent air quality monitor in the preferred location, the NW corner of Naval Reserve in November 2023. The application was ultimately not approved in June 2024 and Adbri will continue to work respectfully with both parties to reinstate a long term solution. In the mean time a trailer mounted air quality monitoir has been set up on the corner of Walton Street and Mary Street, Peterhead, until a long-term monitoring station can be established.

#### **TARP Reports**

Appendix 1, contains monthly TARP reports detailing the following;

- date, time and trigger value exceeded
- details of the response and action strategies implemented.

#### **Summary**

Summary of TARP alerts and actions for the quarter (refer to appendix 1):

- A total of 134 trigger alerts were rasied for the quarter
- A total of 619 actions in response to the alerts were implemented for the quarter
- An average of 5 actions per trigger

# Exceedance Reports

There was one 24-hour exceedances of the  $PM_{2.5}$  Air (EPP) criteria on the ambient particulate monitor in the Community Park, during this reporting period. This exceedances ocurred on the 10 August and is summarised in the table below: Full report is included in the appendix.

**Table 1: 10 August 2024** 

Monitoring Location	Pollutant	24-hour average ( $\mu \mathrm{g}/\mathrm{m}^3$ )	EPP Air Criterion ( $\mu$ g/
Community Park	PM <sub>10</sub>	27.0	50
	PM <sub>2.5</sub>	26.4	25
Gunn Street	$PM_{10}$		50
	PM <sub>2.5</sub>		25

#### Comment:

The 24-hour average PM2.5 concentration measured at Community Park of 26.4 µg/m3 exceeded the EPP Air c of 25.0 µg/m3. All ABC monitors (on site and off site), showed similar particulate levels and trends. This in the particulate level was from a localised air shed condition, rather than related to any specific site activity. A wind movement for this 24 hr period was predominantly (51% of the day) blowing towards ABC. Low wind specovernight temperatures resulted in increased particulate levels overnight / early morning, which dropped dur day as wind speed and temperatures increased. PM2.5 particulate is commonly produced from combustion (vehicles/ heaters). The PM2.5 particulate levels/trends are indicative of low night time temperatures, low wind and reduced air shed flushing

# Air Particulate Complaints

Air particulate related complaints for the reporting period are tabled below

Date	Time	Location	Description	Action Taken
10/08/2024	9:02	Birkenhead	Dust on Car	Sample taken for analysis – cementitious - car wash provided
5/09/2024	13:53	Birkenhead	Dust on Car	Sample taken for analysis – cementitious - car wash provided

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

#### May dust event

In May 2024, there was scheduled maintenance on the clinker shed located near Victoria Road, Birkenhead. During maintenance work the potential for gaps to remain under the eaves of the clinker shed was not adequately identified. This resulted in dust emissions that impacted Adbri's neighbours.

This resulted in complaints related to dust impacts to property including vehicles, solar panels, as well as concerns related to health impacts.

Adbri took immediate action to identify and fix the source of the dust leakage and has been working with the community ever since to rectify any associated damage or dust impact on property.

#### Since the event, Adbri has:

- appointed an expert to assess potential claims. This person has since contacted all registered people, with the majority of solar panels claims assessed and cleaning underway. All car cleaning requests have been actioned
- posted regular updates on its community website to keep residents informed, as well as held two community liaison group meetings to update the community and provide opportunities for Adbri, SA EPA and SA Health to answer questions
- provided an in-person update to the local council
- installed additional CCTV cameras to those already onsite to provide even more early monitoring capability of potential emissions
- amended processes and training to more clearly identify and address environmental risks when undertaking works programmes, and
- identified dust mitigation projects that it proposes will form part of the site's Environment Improvement Programme.

Adbri held a Community Liaison Group meeting on the 3 June about the dust event

- Adbri thanks everyone who attended the June Birkenhead Community Liaison Group meeting.
- This meeting provided an opportunity for Adbri to listen to community feedback.

Adbri held a Community Liaison Group meeting on the 12 July in response to community concerns about health impacts

- Adbri also extends our appreciation to the EPA for arranging for SA Health representatives to attend and present at the meeting.
- The representatives addressed health questions raised by the community about the May dust event.

Adbri apologises to the community and is committed to doing better in the future.

Adbri is currently developing an Environment Improvement Programme, that includes transparent consultation with the community in its development. Since the May dust event Adbri has continued to call for and listen to community sentiment and developed focus areas and methodology directly related to recent concerns raised by the community. Based on the feedback the EIP projects are grouped into themes about communication, dust management and monitoring, noise, odour and amenity.

#### Appendix 1

TARP reports for July August and September

10 August PM2.5 Exceedance Report

## 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, 2024 and 01 August, 2024 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	Operators alerted	01/07/24, 07:16
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	01/07/24, 10:25
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	01/07/24, 07:16
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	01/07/24, 10:25
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	01/07/24, 07:16
Low Trigger	awareness to sources of dust is required		, ,
01/07/24, 07:00 to 01/07/24, 10:25	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	01/07/24, 10:25
	awareness to sources of dust is required		, ,
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	02/07/24, 13:17
	awareness to sources of dust is required		, , .
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	02/07/24, 13:17
	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	02/07/24, 13:17
	emissions in the region of the exceeding monitor		, ,
	Reduce the relevant dust producing activities or reschedule to more suitable	No current activities	02/07/24, 13:17
	meteorological conditions		, ,
	If dust mitigation equipment is unavailable or at fault, investigate temporary	Investigated temporary mitigation options	02/07/24, 13:17
High Trigger	alternative management practices		, ,
02/07/24, 10:00 to 02/07/24, 13:17	Mobilise water cart or apply additional water sprays	Mobilised water cart	02/07/24, 13:17
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	03/07/24, 00:20
Low Trigger	awareness to sources of dust is required		, , .
02/07/24, 23:00 to 03/07/24, 00:20	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	03/07/24, 00:20
	awareness to sources of dust is required		, , .
	Alert relevant operators that dust levels are elevated therefore heightened	Other (provide comments)	03/07/24, 04:38
	awareness to sources of dust is required	,	, , .
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	03/07/24, 07:02
	awareness to sources of dust is required		' '
	Alert relevant operators that dust levels are elevated therefore heightened	Other (provide comments)	03/07/24, 04:38
Medium Trigger	awareness to sources of dust is required	, ,	' ' '
03/07/24, 03:00 to 03/07/24, 07:02	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	03/07/24, 07:02
, , ,	awareness to sources of dust is required	'	,, ,

	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	03/07/24, 09:04
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	03/07/24, 11:17
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	03/07/24, 09:04
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	03/07/24, 11:17
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	03/07/24, 09:04
03/07/24, 08:00 to 03/07/24, 11:17	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	03/07/24, 11:17
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	10/07/24, 07:04
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	10/07/24, 07:04
10/07/24, 01:00 to 10/07/24, 07:04	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	10/07/24, 07:04
Low Trigger 11/07/24, 23:00 to 12/07/24, 00:24	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	12/07/24, 00:24
Low Trigger 12/07/24, 01:00 to 12/07/24, 02:59	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	12/07/24, 02:58
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	14/07/24, 07:37
14/07/24, 02:00 to 14/07/24, 07:37	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	14/07/24, 07:37
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	15/07/24, 00:17
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	15/07/24, 01:18
14/07/24, 23:00 to 15/07/24, 02:21	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	15/07/24, 02:21
Medium Trigger 28/07/24, 21:00 to 28/07/24, 23:33	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	28/07/24, 23:33
Low Trigger 29/07/24, 23:00 to 30/07/24, 07:59	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	30/07/24, 07:59
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	31/07/24, 02:38
Medium Trigger	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	31/07/24, 02:38
30/07/24, 21:00 to 31/07/24, 02:38	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	31/07/24, 02:38
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	01/08/24, 06:01
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	01/08/24, 06:01
	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	01/08/24, 06:01
	Other	No action required - conditions already addressed	01/08/24, 06:01
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	01/08/24, 06:01
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	01/08/24, 06:01
	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	01/08/24, 06:01

Medium Trigger

31/07/24, 20:00 to 01/08/24, 06:02	Other	No action required - conditions already addressed	01/08/24, 06:01
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	01/08/24, 06:01
Low Trigger	awareness to sources of dust is required		
31/07/24, 23:00 to 01/08/24, 06:01	Other	No action required - conditions already addressed	01/08/24, 06:01

#### **DT2 Eastern Grounds**

Trigger Time	Response	Action Taken	Action Recorded
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	01/07/24, 05:31
01/07/24, 04:00 to 01/07/24, 05:32	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	01/07/24, 06:21
	awareness to sources of dust is required		
Medium Trigger	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	01/07/24, 06:21
01/07/24, 06:00 to 01/07/24, 06:22	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	01/07/24, 06:21
	emissions in the region of the exceeding monitor		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	01/07/24, 10:25
01/07/24, 09:00 to 01/07/24, 10:25	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	02/07/24, 13:17
01/07/24, 22:00 to 02/07/24, 13:17	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	02/07/24, 13:18
	awareness to sources of dust is required		
Medium Trigger	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	02/07/24, 13:18
02/07/24, 00:00 to 02/07/24, 13:18	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	02/07/24, 13:18
	emissions in the region of the exceeding monitor		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	02/07/24, 10:02
	awareness to sources of dust is required		
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	02/07/24, 10:02
	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	02/07/24, 10:02
	emissions in the region of the exceeding monitor		, ,
	Reduce the relevant dust producing activities or reschedule to more suitable	No current activities	02/07/24, 10:02
	meteorological conditions		, ,
	If dust mitigation equipment is unavailable or at fault, investigate temporary	Investigated temporary mitigation options	02/07/24, 10:02
	alternative management practices		
	Mobilise water cart or apply additional water sprays	Mobilised water cart	02/07/24, 10:02
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	02/07/24, 12:42
	awareness to sources of dust is required		
High Trigger	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	02/07/24, 12:42
02/07/24, 09:00 to 02/07/24, 12:42	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	02/07/24, 12:42
	emissions in the region of the exceeding monitor		
	Alert relevant operators that dust levels are elevated therefore heightened	Other (provide comments)	03/07/24, 04:37
Medium Trigger	awareness to sources of dust is required		
03/07/24, 04:00 to 03/07/24, 07:02	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	03/07/24, 07:02
	awareness to sources of dust is required		
Medium Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	03/07/24, 09:05
03/07/24, 08:00 to 03/07/24, 09:05	awareness to sources of dust is required		
High Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	04/07/24, 14:36
04/07/24, 12:00 to 04/07/24, 14:36	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	04/07/24, 19:19
04/07/24, 16:00 to 04/07/24, 19:19	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	05/07/24, 14:36
05/07/24, 13:00 to 05/07/24, 14:36	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	06/07/24, 17:32
06/07/24, 14:00 to 06/07/24, 17:32	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/07/24, 07:04
10/07/24, 01:00 to 10/07/24, 07:04	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	15/07/24, 00:17
14/07/24, 23:00 to 15/07/24, 00:17	awareness to sources of dust is required		1 1 1 1

	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	15/07/24, 01:18
	awareness to sources of dust is required		
Medium Trigger	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	15/07/24, 01:18
15/07/24, 01:00 to 15/07/24, 02:21	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	15/07/24, 02:21
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	24/07/24, 13:45
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	24/07/24, 17:01
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	24/07/24, 13:45
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	24/07/24, 17:01
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	24/07/24, 13:45
Medium Trigger	awareness to sources of dust is required		
24/07/24, 13:00 to 24/07/24, 17:01	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	24/07/24, 17:01
	awareness to sources of dust is required		
Medium Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	28/07/24, 23:33
28/07/24, 21:00 to 28/07/24, 23:33	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	30/07/24, 07:59
29/07/24, 23:00 to 30/07/24, 07:59	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	31/07/24, 02:38
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	31/07/24, 02:38
Medium Trigger	awareness to sources of dust is required		
30/07/24, 21:00 to 31/07/24, 02:38	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	31/07/24, 02:38
	awareness to sources of dust is required		

#### DT3 Block 9

Trigger Time	Response	Action Taken	Action Recorded
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	02/07/24, 10:03
	awareness to sources of dust is required		
Medium Trigger	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	02/07/24, 10:03
02/07/24, 09:00 to 02/07/24, 10:03	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	02/07/24, 10:03
	emissions in the region of the exceeding monitor		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	31/07/24, 02:38
30/07/24, 21:00 to 31/07/24, 02:38	awareness to sources of dust is required		
Medium Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	31/07/24, 02:36
30/07/24, 23:00 to 31/07/24, 02:37	awareness to sources of dust is required		

#### **DT5 Northern Grounds**

Trigger Time	Response	Action Taken	Action Recorded
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	01/07/24, 06:20
01/07/24, 06:00 to 01/07/24, 06:21	awareness to sources of dust is required		, ,
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	01/07/24, 10:25
01/07/24, 09:00 to 01/07/24, 10:25	awareness to sources of dust is required		, ,
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	02/07/24, 06:50
	awareness to sources of dust is required	·	' '
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	02/07/24, 06:50
Low Trigger	awareness to sources of dust is required		
01/07/24, 20:00 to 02/07/24, 06:50	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	02/07/24, 06:50
, , , , , , , , , , , , , , , , , , , ,	awareness to sources of dust is required		' ' '
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	02/07/24, 10:01
	awareness to sources of dust is required		', ', ', ', ', ', ', ', ', ', ', ', ',
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	02/07/24, 10:01
	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	02/07/24, 10:01
	emissions in the region of the exceeding monitor		' ' ' ' ' ' ' '
	Reduce the relevant dust producing activities or reschedule to more suitable	No current activities	02/07/24, 10:01
	meteorological conditions		,,,,
	If dust mitigation equipment is unavailable or at fault, investigate temporary	Investigated temporary mitigation options	02/07/24, 10:01
	alternative management practices	mressinguises comporary minigation options	02/01/21, 10:01
	Mobilise water cart or apply additional water sprays	Mobilised water cart	02/07/24, 10:01
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	02/07/24, 12:41
	awareness to sources of dust is required	Operators dicreed	02/01/21, 12:11
High Trigger	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	02/07/24, 12:41
02/07/24, 09:00 to 02/07/24, 12:42	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	02/07/24, 12:41
02/01/21, 03:00 to 02/01/21, 12:12	emissions in the region of the exceeding monitor	Checked for dust chinssions in the died the sources identified	02/01/21, 12:11
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	03/07/24, 00:20
02/07/24, 23:00 to 03/07/24, 00:20	awareness to sources of dust is required	Operators are red	03/01/24, 00:20
02/01/24, 23.00 to 03/01/24, 00.20	Alert relevant operators that dust levels are elevated therefore heightened	Other (provide comments)	03/07/24, 04:38
	awareness to sources of dust is required	Other (provide comments)	03/01/24, 04.30
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	03/07/24, 07:02
	awareness to sources of dust is required	Operators alerted	03/01/24, 01.02
	Alert relevant operators that dust levels are elevated therefore heightened	Other (provide comments)	03/07/24, 04:38
Madina Trianar		Other (provide comments)	03/01/24, 04:36
Medium Trigger	awareness to sources of dust is required	On another about a	02/07/24 07:02
03/07/24, 03:00 to 03/07/24, 07:02	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	03/07/24, 07:02
	awareness to sources of dust is required	On another allowed	02/07/24 00:01
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	03/07/24, 08:01
	awareness to sources of dust is required		02/07/04 00 05
M P T	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	03/07/24, 09:05
Medium Trigger	awareness to sources of dust is required		00/07/04 44 40
03/07/24, 07:00 to 03/07/24, 11:18	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	03/07/24, 11:18
	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	04/07/24, 07:17
04/07/24, 07:00 to 04/07/24, 07:17	awareness to sources of dust is required		
Medium Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	04/07/24, 14:36
04/07/24, 09:00 to 04/07/24, 14:36	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	04/07/24, 14:37
High Trigger	awareness to sources of dust is required		
04/07/24, 12:00 to 04/07/24, 14:37	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	04/07/24, 14:37

Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	04/07/24, 22:52
04/07/24, 22:00 to 04/07/24, 22:52	· ·		05/07/04 16 56
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	05/07/24, 16:56
05/07/24, 15:00 to 05/07/24, 16:56	Other	No action required - conditions already addressed	05/07/24, 16:56
Medium Trigger 05/07/24, 22:00 to 05/07/24, 22:17	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	05/07/24, 22:17
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	06/07/24, 17:32
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	06/07/24, 17:32
	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 - sources identified	06/07/24, 17:32
	Reduce the relevant dust producing activities or reschedule to more suitable meteorological conditions	No current activities	06/07/24, 17:32
High Trigger	If dust mitigation equipment is unavailable or at fault, investigate temporary alternative management practices	Other (provide comments)	06/07/24, 17:32
06/07/24, 16:00 to 06/07/24, 17:35	Mobilise water cart or apply additional water sprays	Mobilised water cart	06/07/24, 17:32
Medium Trigger 09/07/24, 23:00 to 10/07/24, 07:03	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	10/07/24, 07:03
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	15/07/24, 00:17
Medium Trigger	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	15/07/24, 01:18
15/07/24, 01:00 to 15/07/24, 02:21	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	15/07/24, 02:21
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	24/07/24, 13:45
24/07/24, 12:00 to 24/07/24, 13:45	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	24/07/24, 13:45
Medium Trigger 28/07/24, 21:00 to 28/07/24, 23:33	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	28/07/24, 23:33
Low Trigger 29/07/24, 23:00 to 30/07/24, 07:59	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	30/07/24, 07:58
High Trigger	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	31/07/24, 02:37
30/07/24, 22:00 to 31/07/24, 02:37	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	31/07/24, 02:37
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	01/08/24, 06:00
31/07/24, 20:00 to 01/08/24, 06:01	Other	No action required - conditions already addressed	01/08/24, 06:00

#### Meteorology - Observations

#### Meteorology - Forecast

Trigger Time	Response	Action Taken	Action Record
	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	05/07/24, 17:44
	Ensure water truck is on standby to apply water	Water truck is on standby	05/07/24, 17:44
	Pre-emptive watering of stockpiles before handling	Watering not required	05/07/24, 17:44
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	05/07/24, 17:44
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	05/07/24, 17:44
	Additional watering if warranted	Additional watering not required	05/07/24, 17:44
	Review ambient monitoring PM10 levels	Ambient monitoring being reviewed	05/07/24, 17:44
	Other	No action required - conditions already addressed	05/07/24, 17:44
	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	06/07/24, 05:22
	Assess potential for shifting operations to more favourable conditions	No current activities	06/07/24, 17:30
	Ensure water truck is on standby to apply water	Water truck is on standby	06/07/24, 17:3
	Pre-emptive watering of stockpiles before handling	Watering not required	06/07/24, 17:3
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	06/07/24, 17:3
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	06/07/24, 17:30
	Additional watering if warranted	Additional watering not required	06/07/24, 17:3
w Trigger	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	07/07/24, 05:4
/07/24, 18:00 to 05/07/24, 21:00	Ensure water truck is on standby to apply water	Water truck is on standby	07/07/24, 05:4
21/21, 10:00 to 00/01/21, 21:00	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	05/07/24, 17:4
	Ensure water truck is on standby to apply water	Water truck is on standby	05/07/24, 17:4
	Pre-emptive watering of stockpiles before handling	Watering not required	05/07/24, 17:4
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	05/07/24, 17:4
	Visual observations of major stockpiles	Operators inspecting sate for visible dust	05/07/24, 17:4
	Additional watering if warranted	Additional watering not required	05/07/24, 17:4
	Review ambient monitoring PM10 levels	Ambient monitoring being reviewed	05/07/24, 17:4
	Other	No action required - conditions already addressed	05/07/24, 17:4
	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	06/07/24, 17:4
	Assess potential for shifting operations to more favourable conditions	No current activities	06/07/24, 03:2
	Ensure water truck is on standby to apply water	Water truck is on standby	06/07/24, 17:3
	Pre-emptive watering of stockpiles before handling	Water track is on standay  Watering not required	06/07/24, 17:3
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	06/07/24, 17:3
	Visual observations of major stockpiles		/ / .
	Additional watering if warranted	Operators inspecting major stockpiles for visible dust  Additional watering not required	06/07/24, 17:3
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th Trigger	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	07/07/24, 05:4
/07/24, 21:00 to 06/07/24, 00:00	Ensure water truck is on standby to apply water	Water truck is on standby	07/07/24, 05:4
	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	05/07/24, 17:4
	Ensure water truck is on standby to apply water	Water truck is on standby	05/07/24, 17:4
	Pre-emptive watering of stockpiles before handling	Watering not required	05/07/24, 17:4
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	05/07/24, 17:4
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	05/07/24, 17:4
	Additional watering if warranted	Additional watering not required	05/07/24, 17:4
	Review ambient monitoring PM10 levels	Ambient monitoring being reviewed	05/07/24, 17:4
	Other	No action required - conditions already addressed	05/07/24, 17:4
	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	06/07/24, 05:2
	Assess potential for shifting operations to more favourable conditions	No current activities	06/07/24, 17:3
	Ensure water truck is on standby to apply water	Water truck is on standby	06/07/24, 17:3
	Pre-emptive watering of stockpiles before handling	Watering not required	06/07/24, 17:30
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	06/07/24, 17:30
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	06/07/24, 17:30
	Additional watering if warranted	Additional watering not required	06/07/24, 17:30

Asses potential for shifting operations to more favourable conditions  Finance water truck is no standiny to apply water  Pre-emptive watering of stockpiles before handling  Watering not required  Operators inspecting site for visible dust  Operators operated and site of the site of th	High Trigger	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	07/07/24, 05:4
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Pre-emptive watering of stockpiles before handling  Visual observations of site every 3 hours  Operators inspecting give for visible dust  Operators inspecting major stockpiles  Operators inspecting major stockpiles  Additional watering if warranted  Additional watering if warranted  Additional watering of trequired  Operators inspecting major stockpiles for visible dust  Operators inspecting operators are operations to more favourable conditions  No current activities  Operators inspecting size for visible dust  Operators inspecting major stockpiles operators at nome favourable conditions  No opportunity to shift operations to more favourable conditions  Operators inspecting major stockpiles operators to more favourable conditions  Operators inspecting major stockpiles for visible dust  Operators inspecting major stockpiles for visible dust  Operators inspecting major stockpiles for visible dust  Operators inspecting size for visible dust  Operators inspecting size for visible dust		Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	05/07/24, 17:4
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Visual observations of major stockpiles   Operators inspecting major stockpiles for visible dust   OS/07/		Pre-emptive watering of stockpiles before handling	Watering not required	05/07/24, 17:4
Additional watering if warranted Review ambient monitoring pleving reviewed OS/07/ Other Other Assess potential for shifting operations to more favourable conditions Shifted operations or more favourable conditions Shifted operations to more favourable conditions OS/07/ Assess potential for shifting operations to more favourable conditions No current activities OS/07/ Ensure water ruck is on standby to apply water Water ruck is on standby OS/07/ Visual observations of site every 3 hours Operators inspecting site for visible dust OS/07/ Visual observations of site every 3 hours OS/07/24, 03:00 to 06/07/24, 06:00 Ensure water ruck is on standby OS/07/24, 03:00 to 06/07/24, 06:00 Ensure water ruck is on standby OS/07/24, 03:00 to 06/07/24, 06:00 Ensure water ruck is on standby OS/07/24, 03:00 to 06/07/24, 06:00  Ensure water ruck is on standby to apply water Water ruck is on standby OS/07/ Visual observations of site every 3 hours OS/07/ Visual observations of site every 3 hours OS/07/ Visual observations of site every 3 hours OS/07/ Visual observations of major stockplies OS/07/ Visual observations of major stockplies OS/07/ Visual observations of major stockplies OS/07/ Assess potential for shifting operations to more favourable conditions OS/07/ Visual observations of site every 3 hours Operators inspecting site for visible dust OS/07/ Visual observations of major stockplies OS/07/ Assess potential for shifting operations to more favourable conditions OS/07/ Assess potential for shifting operations to more favourable conditions OS/07/ Assess potential for shifting operations to more favourable conditions OS/07/ Assess potential for shifting operations to more favourable conditions OS/07/ Assess potential for shifting operations to more favourable conditions OS/07/ Assess potential for shifting operations to more favourable conditions OS/07/ Assess potential for shifting operations to more favourable conditions OS/07/ Assess potential for shifting operations to more favourable conditions OS/07/ Assess potential		Visual observations of site every 3 hours	Operators inspecting site for visible dust	05/07/24, 17:4
Review ambient monitoring PM10 levels		Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	05/07/24, 17:4
Other Asses potential for shifting operations to more favourable conditions Shifted operations to more favourable conditions Ensure water truck is on standby to apply water Pre-emptive watering of stockpiles before handling Visual observations of site every 3 hours Off. 724, 05.00 to 06/07/24, 06.00  This pre-emptive watering of stockpiles before handling Additional watering of stockpiles before handling Additional watering five stockpiles Additional watering major stockpiles for visible dust Off. 724, 03.00 to 06/07/24, 06.00  The pre-emptive watering of stockpiles Additional watering in granted Additional watering for granted Additional watering fo		Additional watering if warranted	Additional watering not required	05/07/24, 17:4
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Assess potential for shifting operations to more favourable conditions  6/07/24, 06:00 to 06/07/24, 09:00  Ensure water truck is on standby to apply water  Assess potential for shifting operations to more favourable conditions  Assess potential for shifting operations to more favourable conditions  No opportunity to shift operations  No opportunity to		Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	06/07/24, 17:3
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Ensure water truck is on standby to apply water  Pre-emptive watering of stockpiles before handling  Watering not required  05/07/  Visual observations of site every 3 hours  Operators inspecting site for visible dust  05/07/  Visual observations of major stockpiles  Operators inspecting major stockpiles for visible dust  05/07/  Additional watering if warranted  Additional watering not required  05/07/  Review ambient monitoring PM10 levels  Ambient monitoring being reviewed  05/07/  Other  No action required - conditions already addressed  05/07/  Assess potential for shifting operations to more favourable conditions  Shifted operations to more favourable conditions  No current activities  06/07/  Ensure water truck is on standby to apply water  Water truck is on standby  06/07/  Visual observations of site every 3 hours  Operators inspecting major stockpiles for visible dust  06/07/  Visual observations of major stockpiles  Operators inspecting major stockpiles for visible dust  06/07/  Visual observations of major stockpiles  Operators inspecting major stockpiles for visible dust  06/07/		Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	05/07/24, 17:4
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Visual observations of major stockpiles  Operators inspecting major stockpiles for visible dust  05/07/ Additional watering if warranted  Additional watering not required  05/07/ Review ambient monitoring PM10 levels  Ambient monitoring being reviewed  05/07/ Other  No action required - conditions already addressed  05/07/ Assess potential for shifting operations to more favourable conditions  Shifted operations to more favourable conditions  No current activities  Ensure water truck is on standby to apply water  Water truck is on standby  Pre-emptive watering of stockpiles before handling  Watering not required  06/07/ Visual observations of site every 3 hours  Operators inspecting major stockpiles for visible dust  06/07/ Visual observations of major stockpiles  Operators inspecting major stockpiles for visible dust  06/07/			9 ,	05/07/24, 17:4
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				06/07/24, 17:3
				06/07/24, 17:3
		Additional watering if warranted	Additional watering not required	06/07/24, 17:3 07/07/24, 05:4

06/07/24, 09:00 to 06/07/24, 12:00	Ensure water truck is on standby to apply water	Water truck is on standby	07/07/24, 05:4
	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	05/07/24, 17:4
	Ensure water truck is on standby to apply water	Water truck is on standby	05/07/24, 17:4
	Pre-emptive watering of stockpiles before handling	Watering not required	05/07/24, 17:4
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	05/07/24, 17:4
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	05/07/24, 17:4
	Additional watering if warranted	Additional watering not required	05/07/24, 17:4
	Review ambient monitoring PM10 levels	Ambient monitoring being reviewed	05/07/24, 17:4
	Other	No action required - conditions already addressed	05/07/24, 17:
	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	06/07/24, 05:
	Assess potential for shifting operations to more favourable conditions	No current activities	06/07/24, 17:
	Ensure water truck is on standby to apply water	Water truck is on standby	06/07/24, 17:
	Pre-emptive watering of stockpiles before handling	Watering not required	06/07/24, 17:
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	06/07/24, 17:
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	06/07/24, 17:
	Additional watering if warranted	Additional watering not required	06/07/24, 17:
edium Trigger	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	07/07/24, 05:
/07/24, 12:00 to 06/07/24, 15:00	Ensure water truck is on standby to apply water	Water truck is on standby	07/07/24, 05
,, ,, , ,	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	05/07/24, 17
	Ensure water truck is on standby to apply water	Water truck is on standby	05/07/24, 17
	Pre-emptive watering of stockpiles before handling	Watering not required	05/07/24, 17
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	05/07/24, 17
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	05/07/24, 17
	Additional watering if warranted	Additional watering not required	05/07/24, 17
	Review ambient monitoring PM10 levels	Ambient monitoring being reviewed	05/07/24, 17
	Other	No action required - conditions already addressed	05/07/24, 17
	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	06/07/24, 05
	Assess potential for shifting operations to more favourable conditions	No current activities	06/07/24, 03
	Ensure water truck is on standby to apply water	Water truck is on standby	06/07/24, 17
	Pre-emptive watering of stockpiles before handling	Water truck is on standary  Watering not required	06/07/24, 17
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	06/07/24, 17
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	, ·		, , ,
- d T.:	Additional watering if warranted	Additional watering not required	06/07/24, 17:
edium Trigger	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	07/07/24, 05
5/07/24, 15:00 to 06/07/24, 18:00	Ensure water truck is on standby to apply water	Water truck is on standby	07/07/24, 05
	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	05/07/24, 17:
	Ensure water truck is on standby to apply water	Water truck is on standby	05/07/24, 17
	Pre-emptive watering of stockpiles before handling	Watering not required	05/07/24, 17
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	05/07/24, 17
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	05/07/24, 17
	Additional watering if warranted	Additional watering not required	05/07/24, 17:
	Review ambient monitoring PM10 levels	Ambient monitoring being reviewed	05/07/24, 17:
	Other	No action required - conditions already addressed	05/07/24, 17:
	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	06/07/24, 05:
	Assess potential for shifting operations to more favourable conditions	No current activities	06/07/24, 17:
	Ensure water truck is on standby to apply water	Water truck is on standby	06/07/24, 17:
	Pre-emptive watering of stockpiles before handling	Watering not required	06/07/24, 17:
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	06/07/24, 17:
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	06/07/24, 17:
	Additional watering if warranted	Additional watering not required	06/07/24, 17:
edium Trigger	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	07/07/24, 05:
5/07/24, 18:00 to 06/07/24, 21:00	Ensure water truck is on standby to apply water	Water truck is on standby	07/07/24, 05:

	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	05/07/24, 17:44
	Ensure water truck is on standby to apply water	Water truck is on standby	05/07/24, 17:44
	Pre-emptive watering of stockpiles before handling	Watering not required	05/07/24, 17:44
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	05/07/24, 17:44
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	05/07/24, 17:44
	Additional watering if warranted	Additional watering not required	05/07/24, 17:44
	Review ambient monitoring PM10 levels	Ambient monitoring being reviewed	05/07/24, 17:44
	Other	No action required - conditions already addressed	05/07/24, 17:44
	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	06/07/24, 05:22
	Assess potential for shifting operations to more favourable conditions	No current activities	06/07/24, 17:30
	Ensure water truck is on standby to apply water	Water truck is on standby	06/07/24, 17:30
	Pre-emptive watering of stockpiles before handling	Watering not required	06/07/24, 17:30
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	06/07/24, 17:30
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	06/07/24, 17:30
	Additional watering if warranted	Additional watering not required	06/07/24, 17:30
Low Trigger	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	07/07/24, 05:42
06/07/24, 21:00 to 07/07/24, 00:00	Ensure water truck is on standby to apply water	Water truck is on standby	07/07/24, 05:42
00/01/24, 21.00 to 01/01/24, 00.00	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	05/07/24, 05.42
	Ensure water truck is on standby to apply water	Water truck is on standby	05/07/24, 17:44
	Pre-emptive watering of stockpiles before handling	Water track is on standay  Watering not required	05/07/24, 17:44
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	05/07/24, 17:44
	Visual observations of major stockpiles	Operators inspecting site for visible dust  Operators inspecting major stockpiles for visible dust	05/07/24, 17:44
	Additional watering if warranted		, , ,
		Additional watering not required	05/07/24, 17:44
	Review ambient monitoring PM10 levels	Ambient monitoring being reviewed	05/07/24, 17:44
	Other	No action required - conditions already addressed	05/07/24, 17:44
	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	06/07/24, 05:22
	Assess potential for shifting operations to more favourable conditions	No current activities	06/07/24, 17:30
	Ensure water truck is on standby to apply water	Water truck is on standby	06/07/24, 17:30
	Pre-emptive watering of stockpiles before handling	Watering not required	06/07/24, 17:30
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	06/07/24, 17:30
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	06/07/24, 17:30
M P T	Additional watering if warranted	Additional watering not required	06/07/24, 17:30
Medium Trigger	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	07/07/24, 05:42
07/07/24, 00:00 to 07/07/24, 03:00	Ensure water truck is on standby to apply water	Water truck is on standby	07/07/24, 05:42
	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	05/07/24, 17:44
	Ensure water truck is on standby to apply water	Water truck is on standby	05/07/24, 17:44
	Pre-emptive watering of stockpiles before handling	Watering not required	05/07/24, 17:44
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	05/07/24, 17:44
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	05/07/24, 17:44
	Additional watering if warranted	Additional watering not required	05/07/24, 17:44
	Review ambient monitoring PM10 levels	Ambient monitoring being reviewed	05/07/24, 17:44
	Other	No action required - conditions already addressed	05/07/24, 17:44
	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	06/07/24, 05:22
	Assess potential for shifting operations to more favourable conditions	No current activities	06/07/24, 17:30
	Ensure water truck is on standby to apply water	Water truck is on standby	06/07/24, 17:30
	Pre-emptive watering of stockpiles before handling	Watering not required	06/07/24, 17:30
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	06/07/24, 17:30
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	06/07/24, 17:30
	Additional watering if warranted	Additional watering not required	06/07/24, 17:30
Low Trigger	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	07/07/24, 05:42
07/07/24, 03:00 to 07/07/24, 06:00	Ensure water truck is on standby to apply water	Water truck is on standby	07/07/24, 05:42
	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	05/07/24, 17:44

	Ensure water truck is on standby to apply water	Water truck is on standby	05/07/24, 17:4
	Pre-emptive watering of stockpiles before handling	Watering not required	05/07/24, 17:4
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	05/07/24, 17:4
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	05/07/24, 17:4
	Additional watering if warranted	Additional watering not required	05/07/24, 17:4
	Review ambient monitoring PM10 levels	Ambient monitoring being reviewed	05/07/24, 17:4
	Other	No action required - conditions already addressed	05/07/24, 17:4
	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	06/07/24, 05:2
	Assess potential for shifting operations to more favourable conditions	No current activities	06/07/24, 17:3
	Ensure water truck is on standby to apply water	Water truck is on standby	06/07/24, 17:3
	Pre-emptive watering of stockpiles before handling	Watering not required	06/07/24, 17:3
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	06/07/24, 17:3
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	06/07/24, 17:3
	Additional watering if warranted	Additional watering not required	06/07/24, 17:3
dium Trigger	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	07/07/24, 05:4
/07/24, 06:00 to 07/07/24, 09:00	Ensure water truck is on standby to apply water	Water truck is on standby	07/07/24, 05:4
, , , ,	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	05/07/24, 17:4
	Ensure water truck is on standby to apply water	Water truck is on standby	05/07/24, 17:4
	Pre-emptive watering of stockpiles before handling	Watering not required	05/07/24, 17:4
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	05/07/24, 17:4
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	05/07/24, 17:4
	Additional watering if warranted	Additional watering not required	05/07/24, 17:4
	Review ambient monitoring PM10 levels	Ambient monitoring being reviewed	05/07/24, 17:4
	Other	No action required - conditions already addressed	05/07/24, 17:4
	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	06/07/24, 05:
	Assess potential for shifting operations to more favourable conditions	No current activities	06/07/24, 17:
	Ensure water truck is on standby to apply water	Water truck is on standby	06/07/24, 17:
	Pre-emptive watering of stockpiles before handling	Water track is on standay  Watering not required	06/07/24, 17:
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	06/07/24, 17:
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	06/07/24, 17:
	Additional watering if warranted	Additional watering not required	06/07/24, 17:
dium Trigger	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	07/07/24, 17:
707/24, 09:00 to 07/07/24, 12:00	Ensure water truck is on standby to apply water	Water truck is on standby	07/07/24, 05:
07/24, 09.00 to 07/07/24, 12.00	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	05/07/24, 03:
	Ensure water truck is on standby to apply water	Water truck is on standby	05/07/24, 17:
	7 117	· · · · · · · · · · · · · · · · · · ·	
	Pre-emptive watering of stockpiles before handling  Visual observations of site every 3 hours	Watering not required	05/07/24, 17: 05/07/24, 17:
	,	Operators inspecting site for visible dust	, , ,
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	05/07/24, 17:
	Additional watering if warranted	Additional watering not required	05/07/24, 17:
	Review ambient monitoring PM10 levels Other	Ambient monitoring being reviewed	05/07/24, 17: 05/07/24, 17:
	Assess potential for shifting operations to more favourable conditions	No action required - conditions already addressed  Shifted operations to more favourable conditions	05/07/24, 17:
		No current activities	, , ,
	Assess potential for shifting operations to more favourable conditions		06/07/24, 17:
	Ensure water truck is on standby to apply water	Water truck is on standby	06/07/24, 17:
	Pre-emptive watering of stockpiles before handling	Watering not required	06/07/24, 17:3
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	06/07/24, 17:3
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	06/07/24, 17:3
	Additional watering if warranted	Additional watering not required	06/07/24, 17:3
dium Trigger	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	07/07/24, 05:4
/07/24, 12:00 to 07/07/24, 15:00	Ensure water truck is on standby to apply water	Water truck is on standby	07/07/24, 05:4
	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	05/07/24, 17:4
	Ensure water truck is on standby to apply water	Water truck is on standby	05/07/24, 17:4

	Pre-emptive watering of stockpiles before handling	Watering not required	05/07/24, 17:44
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	05/07/24, 17:44
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	05/07/24, 17:44
	Additional watering if warranted	Additional watering not required	05/07/24, 17:44
	Review ambient monitoring PM10 levels	Ambient monitoring being reviewed	05/07/24, 17:44
	Other	No action required - conditions already addressed	05/07/24, 17:44
	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	06/07/24, 05:22
	Assess potential for shifting operations to more favourable conditions	No current activities	06/07/24, 17:30
	Ensure water truck is on standby to apply water	Water truck is on standby	06/07/24, 17:30
	Pre-emptive watering of stockpiles before handling	Watering not required	06/07/24, 17:30
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	06/07/24, 17:30
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	06/07/24, 17:30
	Additional watering if warranted	Additional watering not required	06/07/24, 17:30
Low Trigger	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	07/07/24, 05:42
07/07/24, 15:00 to 07/07/24, 18:00	Ensure water truck is on standby to apply water	Water truck is on standby	07/07/24, 05:42
01/01/21, 13:00 to 01/01/21, 10:00	Assess potential for shifting operations to more favourable conditions	No current activities	10/07/24, 17:17
	Ensure water truck is on standby to apply water	Water truck is on standby	10/07/24, 17:17
	Pre-emptive watering of stockpiles before handling	Water truck is on standary  Watering not required	10/07/24, 17:17
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	10/07/24, 17:17
Low Trigger	Visual observations of major stockpiles	Operators inspecting site for visible dust  Operators inspecting major stockpiles for visible dust	10/07/24, 17:17
10/07/24, 18:00 to 10/07/24, 21:00	Additional watering if warranted	Additional watering not required	10/07/24, 17:17
10/07/24, 18:00 to 10/07/24, 21:00	Assess potential for shifting operations to more favourable conditions	No current activities	10/07/24, 17:17
	Ensure water truck is on standby to apply water	Water truck is on standby	10/07/24, 17:17
	Pre-emptive watering of stockpiles before handling	Water truck is on standay  Watering not required	10/07/24, 17:17
	Visual observations of site every 3 hours	· .	10/07/24, 17:17
L T.:	,	Operators inspecting site for visible dust	, , ,
Low Trigger	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	10/07/24, 17:17
10/07/24, 21:00 to 11/07/24, 00:00	Additional watering if warranted	Additional watering not required	10/07/24, 17:17
	Assess potential for shifting operations to more favourable conditions	No current activities	10/07/24, 17:17
	Ensure water truck is on standby to apply water	Water truck is on standby	10/07/24, 17:17
	Pre-emptive watering of stockpiles before handling	Watering not required	10/07/24, 17:17
M P T	Visual observations of site every 3 hours	Operators inspecting site for visible dust	10/07/24, 17:17
Medium Trigger	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	10/07/24, 17:17
11/07/24, 00:00 to 11/07/24, 03:00	Additional watering if warranted	Additional watering not required	10/07/24, 17:17
	Assess potential for shifting operations to more favourable conditions	No current activities	10/07/24, 17:17
	Ensure water truck is on standby to apply water	Water truck is on standby	10/07/24, 17:17
	Pre-emptive watering of stockpiles before handling	Watering not required	10/07/24, 17:17
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	10/07/24, 17:17
Medium Trigger	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	10/07/24, 17:17
11/07/24, 03:00 to 11/07/24, 06:00	Additional watering if warranted	Additional watering not required	10/07/24, 17:17
	Assess potential for shifting operations to more favourable conditions	No current activities	18/07/24, 17:20
	Ensure water truck is on standby to apply water	Water truck is on standby	18/07/24, 17:20
Low Trigger	Pre-emptive watering of stockpiles before handling	Watering not required	18/07/24, 17:20
18/07/24, 21:00 to 19/07/24, 00:00	Visual observations of site every 3 hours	Operators inspecting site for visible dust	18/07/24, 17:20
Low Trigger	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	23/07/24, 20:23
23/07/24, 18:00 to 23/07/24, 21:00	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	24/07/24, 05:17
Low Trigger	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	23/07/24, 20:23
23/07/24, 21:00 to 24/07/24, 00:00	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	24/07/24, 05:17
Medium Trigger	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	23/07/24, 20:23
24/07/24, 00:00 to 24/07/24, 03:00	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	24/07/24, 05:17
Medium Trigger	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	23/07/24, 20:23
24/07/24, 03:00 to 24/07/24, 06:00	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	24/07/24, 05:17
	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	23/07/24, 20:23

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24/07/24, 06:00 to 24/07/24, 09:00	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	24/07/24, 05:17
High Trigger	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	23/07/24, 20:23
24/07/24, 09:00 to 24/07/24, 12:00	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	24/07/24, 05:17

#### **Visual Observations**

### 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, 2024 and 01 September, 2024 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	Operators alerted	01/08/24, 06:01
	awareness to sources of dust is required		
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	01/08/24, 06:01
	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	01/08/24, 06:01
	emissions in the region of the exceeding monitor		
	Other	No action required - conditions already addressed	01/08/24, 06:01
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	01/08/24, 06:01
	awareness to sources of dust is required		
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	01/08/24, 06:01
	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	01/08/24, 06:01
Medium Trigger	emissions in the region of the exceeding monitor		, ,
31/07/24, 20:00 to 01/08/24, 06:02	Other	No action required - conditions already addressed	01/08/24, 06:01
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	01/08/24, 06:01
Low Trigger	awareness to sources of dust is required		, ,
31/07/24, 23:00 to 01/08/24, 06:01	Other	No action required - conditions already addressed	01/08/24, 06:01
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	03/08/24, 06:48
	awareness to sources of dust is required		, ,
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	03/08/24, 06:48
Low Trigger	awareness to sources of dust is required		, ,
03/08/24, 00:00 to 03/08/24, 06:49	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	03/08/24, 06:48
	awareness to sources of dust is required		, ,
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	03/08/24, 08:26
03/08/24, 08:00 to 03/08/24, 08:26	awareness to sources of dust is required		, ,
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	03/08/24, 10:19
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	03/08/24, 11:28
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	03/08/24, 10:19
Low Trigger	awareness to sources of dust is required		
03/08/24, 10:00 to 03/08/24, 11:28	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	03/08/24, 11:28
	awareness to sources of dust is required		, ,
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	04/08/24, 22:36
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	05/08/24, 06:20
	awareness to sources of dust is required		

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	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	04/08/24, 22:3
	awareness to sources of dust is required		05/00/04 06 0
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	05/08/24, 06:2
	awareness to sources of dust is required	On another alerted	04/00/04 22:3
Ladina Trianna	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	04/08/24, 22:3
ledium Trigger	awareness to sources of dust is required	On another alerted	05/00/04 06:0
4/08/24, 20:00 to 05/08/24, 06:20	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	05/08/24, 06:2
	awareness to sources of dust is required		05 /00 /04 10 0
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	05/08/24, 10:2
ledium Trigger	awareness to sources of dust is required		05 (00 (04 40 0
5/08/24, 10:00 to 05/08/24, 19:21	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	05/08/24, 19:2
	awareness to sources of dust is required		05 (00 (04 44 0
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	06/08/24, 11:2
	awareness to sources of dust is required	N control to the second control to the secon	06/00/04 11/0
	Other	No action required - conditions already addressed	06/08/24, 11:2
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	06/08/24, 11:2
w Trigger	awareness to sources of dust is required		
6/08/24, 21:00 to 06/08/24, 11:26	Other	No action required - conditions already addressed	06/08/24, 11:2
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	06/08/24, 11:2
ow Trigger	awareness to sources of dust is required		
5/08/24, 00:00 to 06/08/24, 11:26	Other	No action required - conditions already addressed	06/08/24, 11:2
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	09/08/24, 12:1
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	09/08/24, 12:1
ow Trigger	awareness to sources of dust is required		
9/08/24, 10:00 to 09/08/24, 12:16	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	09/08/24, 12:1
	awareness to sources of dust is required		
1edium Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	09/08/24, 18:4
9/08/24, 18:00 to 09/08/24, 18:43	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 00:0
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 02:0
	awareness to sources of dust is required		' '
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 05:0
	awareness to sources of dust is required		' ' '
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 05:3
	awareness to sources of dust is required		','', ',''
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 07:2
	awareness to sources of dust is required		,,,
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 15:4
	awareness to sources of dust is required		,,,
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	10/08/24, 15:4
	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	10/08/24, 15:4
	emissions in the region of the exceeding monitor	Checked for dust chinssions in the area - no sources identified	15/00/24, 15.4
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 00:0
	awareness to sources of dust is required	Operators are ted	10/00/24, 00.0
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 02:0
	awareness to sources of dust is required	Operators alerted	10/00/24, 02:0
	· · · · · · · · · · · · · · · · · · ·	Operators alerted	10/09/24 05:0
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 05:0
	annear to annear of dust is naminal		
	awareness to sources of dust is required  Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 05:3

	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	10/08/24, 07:21
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	10/08/24, 15:41
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	10/08/24, 15:41
	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	10/08/24, 15:41
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	10/08/24, 00:03
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	10/08/24, 02:01
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	10/08/24, 05:02
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	10/08/24, 05:34
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	10/08/24, 07:21
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	10/08/24, 15:41
Medium Trigger	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	10/08/24, 15:41
10/08/24, 03:00 to 10/08/24, 15:41	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	10/08/24, 15:41
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	10/08/24, 21:22
High Trigger	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	10/08/24, 22:18
10/08/24, 22:00 to 11/08/24, 00:29	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	11/08/24, 00:29
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	14/08/24, 20:20
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	14/08/24, 21:58
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	14/08/24, 20:20
14/08/24, 20:00 to 14/08/24, 21:58	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	14/08/24, 21:58
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	18/08/24, 04:51
18/08/24, 03:00 to 18/08/24, 04:51	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	18/08/24, 04:51
Medium Trigger 23/08/24, 11:00 to 23/08/24, 15:55	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	23/08/24, 15:55

#### **DT2 Eastern Grounds**

Trigger Time	Response	Action Taken	Action Recorded
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	03/08/24, 06:49
Low Trigger	awareness to sources of dust is required		
03/08/24, 01:00 to 03/08/24, 06:49	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	03/08/24, 06:49
	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	03/08/24, 06:49
03/08/24, 04:00 to 03/08/24, 06:49	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	04/08/24, 22:36
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	05/08/24, 06:20
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	04/08/24, 22:36
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	05/08/24, 06:20
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	04/08/24, 22:36
Medium Trigger	awareness to sources of dust is required		
04/08/24, 21:00 to 05/08/24, 06:20	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	05/08/24, 06:20
	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	05/08/24, 10:28
05/08/24, 10:00 to 05/08/24, 10:28	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	06/08/24, 11:26
Low Trigger	awareness to sources of dust is required		
06/08/24, 00:00 to 06/08/24, 11:26	Other	No action required - conditions already addressed	06/08/24, 11:26
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	06/08/24, 11:27
Low Trigger	awareness to sources of dust is required		
06/08/24, 02:00 to 06/08/24, 11:27	Other	No action required - conditions already addressed	06/08/24, 11:27
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	09/08/24, 12:16
Low Trigger	awareness to sources of dust is required		
09/08/24, 11:00 to 09/08/24, 12:16	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	09/08/24, 12:16
	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	09/08/24, 21:03
09/08/24, 20:00 to 09/08/24, 21:03	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 00:03
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 02:01
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 05:02
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 05:33
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 07:21
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 00:03
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 02:01
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 05:02
	awareness to sources of dust is required		

	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 05:33
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 07:21
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 00:03
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 02:01
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 05:02
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 05:33
Medium Trigger	awareness to sources of dust is required		
10/08/24, 01:00 to 10/08/24, 07:21	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 07:21
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 15:41
	awareness to sources of dust is required		
Medium Trigger	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	10/08/24, 15:41
10/08/24, 10:00 to 10/08/24, 15:42	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	10/08/24, 15:41
	emissions in the region of the exceeding monitor		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 21:22
Medium Trigger	awareness to sources of dust is required		
10/08/24, 21:00 to 10/08/24, 22:18	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 22:18
	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	18/08/24, 04:50
18/08/24, 03:00 to 18/08/24, 04:51	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	23/08/24, 00:00
22/08/24, 20:00 to 23/08/24, 00:00	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	27/08/24, 14:39
27/08/24, 14:00 to 27/08/24, 14:39	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	29/08/24, 01:15
28/08/24, 20:00 to 29/08/24, 01:15	awareness to sources of dust is required		

#### DT3 Block 9

Trigger Time	Response	Action Taken	Action Recorded
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 21:21
10/08/24, 21:00 to 10/08/24, 21:22	awareness to sources of dust is required		

#### **DT5 Northern Grounds**

Trigger Time	Response	Action Taken	Action Recorde
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	01/08/24, 06:00
ow Trigger	awareness to sources of dust is required		
31/07/24, 20:00 to 01/08/24, 06:01	Other	No action required - conditions already addressed	01/08/24, 06:00
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	07/08/24, 21:15
Лedium Trigger	awareness to sources of dust is required		
07/08/24, 19:00 to 08/08/24, 16:04	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	08/08/24, 16:03
	awareness to sources of dust is required		
ow Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	09/08/24, 12:16
09/08/24, 12:00 to 09/08/24, 12:16	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 00:04
	awareness to sources of dust is required		
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	10/08/24, 00:04
	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	10/08/24, 00:04
	emissions in the region of the exceeding monitor		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 02:00
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 05:02
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 05:33
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 07:23
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 15:4
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 00:0
	awareness to sources of dust is required		
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	10/08/24, 00:04
	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	10/08/24, 00:04
	emissions in the region of the exceeding monitor		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 02:00
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 05:02
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 05:32
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 07:2
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 15:4
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 00:04
	awareness to sources of dust is required		
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	10/08/24, 00:04
	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	10/08/24, 00:04
	emissions in the region of the exceeding monitor		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 02:00
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 05:02
	awareness to sources of dust is required		

	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 05:32
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 07:21
Medium Trigger	awareness to sources of dust is required		
09/08/24, 23:00 to 10/08/24, 15:41	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 15:41
	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 15:42
10/08/24, 10:00 to 10/08/24, 15:42	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 21:21
High Trigger	awareness to sources of dust is required		
10/08/24, 21:00 to 10/08/24, 22:18	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/08/24, 22:18
	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	11/08/24, 22:59
11/08/24, 19:00 to 11/08/24, 22:59	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	14/08/24, 19:43
Medium Trigger	awareness to sources of dust is required		
14/08/24, 20:00 to 14/08/24, 20:20	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	14/08/24, 20:20
	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	18/08/24, 04:50
18/08/24, 03:00 to 18/08/24, 04:50	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	18/08/24, 23:52
18/08/24, 21:00 to 18/08/24, 23:52	awareness to sources of dust is required		
Medium Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	22/08/24, 23:59
22/08/24, 20:00 to 22/08/24, 23:59	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	24/08/24, 23:35
24/08/24, 22:00 to 24/08/24, 23:35	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	03/09/24, 00:46
30/08/24, 15:00 to 03/09/24, 00:46	awareness to sources of dust is required		

#### Meteorology - Observations

#### Meteorology - Forecast

Trigger Time	Response	Action Taken	Action Recorded
Low Trigger	Other	No action required - other (provide comments)	01/08/24, 20:19
01/08/24, 21:00 to 02/08/24, 00:00			
Low Trigger	Other	No action required - other (provide comments)	01/08/24, 20:19
02/08/24, 00:00 to 02/08/24, 03:00			
	Assess potential for shifting operations to more favourable conditions	No current activities	11/08/24, 17:45
	Ensure water truck is on standby to apply water	Water truck is on standby	11/08/24, 17:45
Low Trigger	Pre-emptive watering of stockpiles before handling	Watering not required	11/08/24, 17:45
11/08/24, 21:00 to 12/08/24, 00:00	Visual observations of site every 3 hours	Operators inspecting site for visible dust	11/08/24, 17:45
	Assess potential for shifting operations to more favourable conditions	No current activities	11/08/24, 17:45
	Ensure water truck is on standby to apply water	Water truck is on standby	11/08/24, 17:45
Low Trigger	Pre-emptive watering of stockpiles before handling	Watering not required	11/08/24, 17:45
12/08/24, 00:00 to 12/08/24, 03:00	Visual observations of site every 3 hours	Operators inspecting site for visible dust	11/08/24, 17:45
	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	15/08/24, 08:16
	Ensure water truck is on standby to apply water	Water truck is on standby	15/08/24, 08:16
Low Trigger	Pre-emptive watering of stockpiles before handling	Watering not required	15/08/24, 08:16
15/08/24, 06:00 to 15/08/24, 09:00	Visual observations of site every 3 hours	Operators inspecting site for visible dust	15/08/24, 08:16
	Assess potential for shifting operations to more favourable conditions	No current activities	18/08/24, 17:25
	Ensure water truck is on standby to apply water	Water truck is on standby	18/08/24, 17:25
	Pre-emptive watering of stockpiles before handling	Watering not required	18/08/24, 17:25
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	18/08/24, 17:25
	Assess potential for shifting operations to more favourable conditions	No current activities	19/08/24, 06:47
	Ensure water truck is on standby to apply water	Water truck is on standby	19/08/24, 06:47
	Pre-emptive watering of stockpiles before handling	Watering not required	19/08/24, 06:47
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	19/08/24, 06:47
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	19/08/24, 06:47
	Additional watering if warranted	Additional watering not required	19/08/24, 06:47
	Assess potential for shifting operations to more favourable conditions	No current activities	19/08/24, 17:26
	Ensure water truck is on standby to apply water	Water truck is on standby	19/08/24, 17:26
	Pre-emptive watering of stockpiles before handling	Watering not required	19/08/24, 17:26
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	19/08/24, 17:26
Low Trigger	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	19/08/24, 17:26
19/08/24, 03:00 to 19/08/24, 06:00	Additional watering if warranted	Additional watering not required	19/08/24, 17:26
	Assess potential for shifting operations to more favourable conditions	No current activities	18/08/24, 17:25
	Ensure water truck is on standby to apply water	Water truck is on standby	18/08/24, 17:25
	Pre-emptive watering of stockpiles before handling	Watering not required	18/08/24, 17:25
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	18/08/24, 17:25
	Assess potential for shifting operations to more favourable conditions	No current activities	19/08/24, 06:47
	Ensure water truck is on standby to apply water	Water truck is on standby	19/08/24, 06:47
	Pre-emptive watering of stockpiles before handling	Watering not required	19/08/24, 06:47
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	19/08/24, 06:47
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	19/08/24, 06:47
	Additional watering if warranted	Additional watering not required	19/08/24, 06:47
	Assess potential for shifting operations to more favourable conditions	No current activities	19/08/24, 17:26
	Ensure water truck is on standby to apply water	Water truck is on standby	19/08/24, 17:26
	Pre-emptive watering of stockpiles before handling	Watering not required	19/08/24, 17:26
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	19/08/24, 17:26
ow Trigger	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	19/08/24, 17:26
19/08/24, 06:00 to 19/08/24, 09:00	Additional watering if warranted	Additional watering not required	19/08/24, 17:26
	Assess potential for shifting operations to more favourable conditions	No current activities	18/08/24, 17:25

	Ensure water truck is on standby to apply water	Water truck is on standby	18/08/24, 17:25
	Pre-emptive watering of stockpiles before handling	Watering not required	18/08/24, 17:25
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	18/08/24, 17:25
	Assess potential for shifting operations to more favourable conditions	No current activities	19/08/24, 06:47
	Ensure water truck is on standby to apply water	Water truck is on standby	19/08/24, 06:47
	Pre-emptive watering of stockpiles before handling	Watering not required	19/08/24, 06:47
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	19/08/24, 06:47
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	19/08/24, 06:47
	Additional watering if warranted	Additional watering not required	19/08/24, 06:47
	Assess potential for shifting operations to more favourable conditions	No current activities	19/08/24, 17:26
	Ensure water truck is on standby to apply water	Water truck is on standby	19/08/24, 17:26
	Pre-emptive watering of stockpiles before handling	Watering not required	19/08/24, 17:26
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	19/08/24, 17:26
Medium Trigger	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	19/08/24, 17:26
19/08/24, 09:00 to 19/08/24, 12:00	Additional watering if warranted	Additional watering not required	19/08/24, 17:26
19/00/24, 09:00 to 19/00/24, 12:00	Assess potential for shifting operations to more favourable conditions	No current activities	18/08/24, 17:25
	Ensure water truck is on standby to apply water	Water truck is on standby	18/08/24, 17:25
	Pre-emptive watering of stockpiles before handling	Water truck is on standay  Watering not required	18/08/24, 17:25
	, , ,	9 ,	18/08/24, 17:25
	Visual observations of site every 3 hours	Operators inspecting site for visible dust  No current activities	
	Assess potential for shifting operations to more favourable conditions		19/08/24, 06:47
	Ensure water truck is on standby to apply water	Water truck is on standby	19/08/24, 06:47
	Pre-emptive watering of stockpiles before handling	Watering not required	19/08/24, 06:47
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	19/08/24, 06:47
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	19/08/24, 06:47
	Additional watering if warranted	Additional watering not required	19/08/24, 06:47
	Assess potential for shifting operations to more favourable conditions	No current activities	19/08/24, 17:26
	Ensure water truck is on standby to apply water	Water truck is on standby	19/08/24, 17:26
	Pre-emptive watering of stockpiles before handling	Watering not required	19/08/24, 17:26
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	19/08/24, 17:26
Low Trigger	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	19/08/24, 17:26
19/08/24, 12:00 to 19/08/24, 15:00	Additional watering if warranted	Additional watering not required	19/08/24, 17:26
	Assess potential for shifting operations to more favourable conditions	No current activities	18/08/24, 17:25
	Ensure water truck is on standby to apply water	Water truck is on standby	18/08/24, 17:25
	Pre-emptive watering of stockpiles before handling	Watering not required	18/08/24, 17:25
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	18/08/24, 17:25
	Assess potential for shifting operations to more favourable conditions	No current activities	19/08/24, 06:47
	Ensure water truck is on standby to apply water	Water truck is on standby	19/08/24, 06:47
	Pre-emptive watering of stockpiles before handling	Watering not required	19/08/24, 06:47
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	19/08/24, 06:47
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	19/08/24, 06:47
	Additional watering if warranted	Additional watering not required	19/08/24, 06:47
	Assess potential for shifting operations to more favourable conditions	No current activities	19/08/24, 17:26
	Ensure water truck is on standby to apply water	Water truck is on standby	19/08/24, 17:26
	Pre-emptive watering of stockpiles before handling	Watering not required	19/08/24, 17:26
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	19/08/24, 17:26
Low Trigger	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	19/08/24, 17:26
19/08/24, 15:00 to 19/08/24, 18:00	Additional watering if warranted	Additional watering not required	19/08/24, 17:26
	Assess potential for shifting operations to more favourable conditions	No current activities	18/08/24, 17:25
	Ensure water truck is on standby to apply water	Water truck is on standby	18/08/24, 17:25
	Pre-emptive watering of stockpiles before handling	Watering not required	18/08/24, 17:25
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	18/08/24, 17:25
	Assess potential for shifting operations to more favourable conditions	No current activities	19/08/24, 06:47

	Ensure water truck is on standby to apply water	Water truck is on standby	19/08/24, 06:47
	Pre-emptive watering of stockpiles before handling	Watering not required	19/08/24, 06:47
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	19/08/24, 06:47
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	19/08/24, 06:47
	Additional watering if warranted	Additional watering not required	19/08/24, 06:47
	Assess potential for shifting operations to more favourable conditions	No current activities	19/08/24, 17:26
	Ensure water truck is on standby to apply water	Water truck is on standby	19/08/24, 17:26
	Pre-emptive watering of stockpiles before handling	Watering not required	19/08/24, 17:26
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	19/08/24, 17:26
High Trigger	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	19/08/24, 17:26
19/08/24, 18:00 to 19/08/24, 21:00	Additional watering if warranted	Additional watering not required	19/08/24, 17:26
, , , , , , , , , , , , , , , , , , , ,	Assess potential for shifting operations to more favourable conditions	No current activities	18/08/24, 17:25
	Ensure water truck is on standby to apply water	Water truck is on standby	18/08/24, 17:25
	Pre-emptive watering of stockpiles before handling	Watering not required	18/08/24, 17:25
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	18/08/24, 17:25
	Assess potential for shifting operations to more favourable conditions	No current activities	19/08/24, 06:47
	Ensure water truck is on standby to apply water	Water truck is on standby	19/08/24, 06:47
	Pre-emptive watering of stockpiles before handling	Watering not required	19/08/24, 06:47
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	19/08/24, 06:47
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	19/08/24, 06:47
	Additional watering if warranted	Additional watering not required	19/08/24, 06:47
	Assess potential for shifting operations to more favourable conditions	No current activities	19/08/24, 17:26
	Ensure water truck is on standby to apply water	Water truck is on standby	19/08/24, 17:26
	Pre-emptive watering of stockpiles before handling	Watering not required	19/08/24, 17:26
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	19/08/24, 17:26
High Trigger	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	19/08/24, 17:26
19/08/24, 21:00 to 20/08/24, 00:00	Additional watering if warranted	Additional watering not required	19/08/24, 17:26
19/00/24, 21:00 to 20/00/24, 00:00	Assess potential for shifting operations to more favourable conditions	No current activities	18/08/24, 17:25
	Ensure water truck is on standby to apply water	Water truck is on standby	18/08/24, 17:25
	Pre-emptive watering of stockpiles before handling	Water track is on standay  Watering not required	18/08/24, 17:25
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	18/08/24, 17:25
		No current activities	19/08/24, 17:25
	Assess potential for shifting operations to more favourable conditions	Water truck is on standby	19/08/24, 06:47
	Ensure water truck is on standby to apply water	•	
	Pre-emptive watering of stockpiles before handling	Watering not required	19/08/24, 06:47
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	19/08/24, 06:47
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	19/08/24, 06:47
	Additional watering if warranted	Additional watering not required	19/08/24, 06:47
	Assess potential for shifting operations to more favourable conditions	No current activities	19/08/24, 17:26
	Ensure water truck is on standby to apply water	Water truck is on standby	19/08/24, 17:26
	Pre-emptive watering of stockpiles before handling	Watering not required	19/08/24, 17:26
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	19/08/24, 17:26
Low Trigger	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	19/08/24, 17:26
20/08/24, 00:00 to 20/08/24, 03:00	Additional watering if warranted	Additional watering not required	19/08/24, 17:26
	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	22/08/24, 18:09
	Ensure water truck is on standby to apply water	Water truck is on standby	22/08/24, 18:09
	Pre-emptive watering of stockpiles before handling	Watering not required	22/08/24, 18:09
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	22/08/24, 18:09
Low Trigger	Other	No action required - conditions already addressed	22/08/24, 18:09
23/08/24, 03:00 to 23/08/24, 06:00	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	23/08/24, 05:20
	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	22/08/24, 18:09
	Ensure water truck is on standby to apply water	Water truck is on standby	22/08/24, 18:09
	Pre-emptive watering of stockpiles before handling	Watering not required	22/08/24, 18:09

	Visual observations of site every 3 hours	Operators inspecting site for visible dust	22/08/24, 18:09
Medium Trigger	Other	No action required - conditions already addressed	22/08/24, 18:09
23/08/24, 06:00 to 23/08/24, 09:00	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	23/08/24, 05:20
	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	22/08/24, 18:09
	Ensure water truck is on standby to apply water	Water truck is on standby	22/08/24, 18:09
	Pre-emptive watering of stockpiles before handling	Watering not required	22/08/24, 18:09
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	22/08/24, 18:09
Low Trigger	Other	No action required - conditions already addressed	22/08/24, 18:09
23/08/24, 09:00 to 23/08/24, 12:00	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	23/08/24, 05:20
	Assess potential for shifting operations to more favourable conditions	No current activities	29/08/24, 05:35
	Ensure water truck is on standby to apply water	Water truck is operational	29/08/24, 05:35
Low Trigger	Pre-emptive watering of stockpiles before handling	Watering not required	29/08/24, 05:35
29/08/24, 15:00 to 29/08/24, 18:00	Visual observations of site every 3 hours	Operators inspecting site for visible dust	29/08/24, 05:35

#### **Visual Observations**

## 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, 2024 and 01 October, 2024 along with the resulting management actions taken.

#### **DT1 Southern Grounds**

Trigger Time	Response	Action Taken	Action Recorded
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	05/09/24, 09:22
05/09/24, 09:00 to 05/09/24, 09:22	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	05/09/24, 13:21
05/09/24, 13:00 to 05/09/24, 13:21	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	05/09/24, 19:20
Medium Trigger	awareness to sources of dust is required		
05/09/24, 20:00 to 05/09/24, 21:57	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	05/09/24, 21:57
	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	06/09/24, 01:25
06/09/24, 01:00 to 06/09/24, 01:29	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	11/09/24, 03:42
	awareness to sources of dust is required		
Medium Trigger	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	11/09/24, 03:42
10/09/24, 22:00 to 11/09/24, 03:43	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - sources identified	11/09/24, 03:42
	emissions in the region of the exceeding monitor		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	13/09/24, 07:37
13/09/24, 07:00 to 13/09/24, 07:37	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	28/09/24, 11:29
28/09/24, 11:00 to 28/09/24, 11:29	awareness to sources of dust is required		

#### **DT2 Eastern Grounds**

Trigger Time	Response	Action Taken	Action Recorded
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	03/09/24, 00:46
02/09/24, 02:00 to 03/09/24, 00:47	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	04/09/24, 13:25
04/09/24, 13:00 to 04/09/24, 13:25	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	05/09/24, 09:09
05/09/24, 08:00 to 05/09/24, 09:09	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	11/09/24, 03:43
	awareness to sources of dust is required		
Medium Trigger	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	11/09/24, 03:43
10/09/24, 21:00 to 11/09/24, 03:44	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - sources identified	11/09/24, 03:43
	emissions in the region of the exceeding monitor		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	11/09/24, 04:35
11/09/24, 04:00 to 11/09/24, 04:36	awareness to sources of dust is required		, ,
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	11/09/24, 08:22
11/09/24, 08:00 to 11/09/24, 08:22	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	13/09/24, 07:37
13/09/24, 07:00 to 13/09/24, 07:37	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	18/09/24, 15:21
18/09/24, 10:00 to 18/09/24, 15:21	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	18/09/24, 23:19
18/09/24, 20:00 to 18/09/24, 23:45	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	24/09/24, 14:07
24/09/24, 09:00 to 24/09/24, 14:07	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	28/09/24, 13:51
	awareness to sources of dust is required		
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	28/09/24, 13:51
	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	28/09/24, 13:51
	emissions in the region of the exceeding monitor		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	28/09/24, 14:37
	awareness to sources of dust is required		
Medium Trigger	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	28/09/24, 14:37
28/09/24, 12:00 to 28/09/24, 14:37	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	28/09/24, 14:37
	emissions in the region of the exceeding monitor		

#### DT3 Block 9

Trigger Time	Response	Action Taken	Action Recorded
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/09/24, 01:25
	awareness to sources of dust is required		
Medium Trigger	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	10/09/24, 01:25
09/09/24, 13:00 to 10/09/24, 01:28	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - sources identified	10/09/24, 01:25
	emissions in the region of the exceeding monitor		

#### **DT5 Northern Grounds**

Trigger Time	Response	Action Taken	Action Recorded
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	03/09/24, 00:46
30/08/24, 15:00 to 03/09/24, 00:46	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	05/09/24, 09:09
05/09/24, 08:00 to 05/09/24, 09:09	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	05/09/24, 18:29
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	05/09/24, 19:19
Low Trigger	awareness to sources of dust is required		
05/09/24, 18:00 to 05/09/24, 21:57	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	05/09/24, 21:57
	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	06/09/24, 02:17
06/09/24, 02:00 to 06/09/24, 02:17	awareness to sources of dust is required		
Medium Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	11/09/24, 03:55
10/09/24, 21:00 to 11/09/24, 03:55	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	12/09/24, 07:25
12/09/24, 07:00 to 12/09/24, 07:25	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	24/09/24, 01:50
24/09/24, 01:00 to 24/09/24, 01:50	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	24/09/24, 14:07
	awareness to sources of dust is required		
Medium Trigger	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	24/09/24, 14:07
24/09/24, 09:00 to 24/09/24, 14:08	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	24/09/24, 14:07
	emissions in the region of the exceeding monitor		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	28/09/24, 13:51
28/09/24, 12:00 to 28/09/24, 13:51	awareness to sources of dust is required		

#### Meteorology - Observations

#### Meteorology - Forecast

Trigger Time	Response	Action Taken	Action Recorded
Low Trigger 03/09/24, 21:00 to 04/09/24, 00:00	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	03/09/24, 17:24
	Ensure water truck is on standby to apply water	Water truck is on standby	03/09/24, 17:24
	Pre-emptive watering of stockpiles before handling	Watering completed	03/09/24, 17:24
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	03/09/24, 17:24
	Assess potential for shifting operations to more favourable conditions	No current activities	04/09/24, 06:40
Low Trigger	Ensure water truck is on standby to apply water	Water truck is operational	04/09/24, 06:40
	Pre-emptive watering of stockpiles before handling	Watering completed	04/09/24, 06:40
04/09/24, 09:00 to 04/09/24, 12:00	Visual observations of site every 3 hours	Operators inspecting site for visible dust	04/09/24, 06:40
Low Trigger 04/09/24, 15:00 to 04/09/24, 15:00	Assess potential for shifting operations to more favourable conditions	No current activities	04/09/24, 06:40
	Ensure water truck is on standby to apply water	Water truck is operational	04/09/24, 06:40
	Pre-emptive watering of stockpiles before handling	Watering completed	04/09/24, 06:40
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	04/09/24, 06:40
Low Trigger 04/09/24, 18:00 to 04/09/24, 21:00	Assess potential for shifting operations to more favourable conditions	No current activities	04/09/24, 17:17
	Ensure water truck is on standby to apply water	Water truck is on standby	04/09/24, 17:17
	Pre-emptive watering of stockpiles before handling	Watering completed	04/09/24, 17:17
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	04/09/24, 17:17
	Assess potential for shifting operations to more favourable conditions	No current activities	14/09/24, 05:30
	Ensure water truck is on standby to apply water	Water truck is on standby	14/09/24, 05:30
	Pre-emptive watering of stockpiles before handling	Watering not required	14/09/24, 05:30
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	14/09/24, 05:30
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	14/09/24, 05:30
Medium Trigger	Additional watering if warranted	Additional watering not required	14/09/24, 05:30
14/09/24, 12:00 to 14/09/24, 15:00	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	14/09/24, 17:29
	Assess potential for shifting operations to more favourable conditions	No current activities	14/09/24, 05:30
	Ensure water truck is on standby to apply water	Water truck is on standby	14/09/24, 05:30
	Pre-emptive watering of stockpiles before handling	Watering not required	14/09/24, 05:30
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	14/09/24, 05:30
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	14/09/24, 05:30
Medium Trigger	Additional watering if warranted	Additional watering not required	14/09/24, 05:30
14/09/24, 15:00 to 14/09/24, 18:00	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	14/09/24, 17:29
	Assess potential for shifting operations to more favourable conditions	No current activities	14/09/24, 05:30
	Ensure water truck is on standby to apply water	Water truck is on standby	14/09/24, 05:30
	Pre-emptive watering of stockpiles before handling	Watering not required	14/09/24, 05:30
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	14/09/24, 05:30
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	14/09/24, 05:30
Low Trigger	Additional watering if warranted	Additional watering not required	14/09/24, 05:30
14/09/24, 18:00 to 14/09/24, 21:00	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	14/09/24, 17:29
High Trigger	Ensure water truck is on standby to apply water	Water truck is on standby	27/09/24, 07:47
25/09/24, 15:00 to 25/09/24, 18:00	Visual observations of site every 3 hours	Operators inspecting site for visible dust	27/09/24, 07:47
Low Trigger	Ensure water truck is on standby to apply water	Water truck is on standby	27/09/24, 07:47
25/09/24, 18:00 to 25/09/24, 21:00	Visual observations of site every 3 hours	Operators inspecting site for visible dust	27/09/24, 07:47
	Assess potential for shifting operations to more favourable conditions	No current activities	28/09/24, 07:08
	Ensure water truck is on standby to apply water	Water truck is on standby	28/09/24, 07:08
Low Trigger	Pre-emptive watering of stockpiles before handling	Watering not required	28/09/24, 07:08
27/09/24, 21:00 to 28/09/24, 00:00	Visual observations of site every 3 hours	Operators inspecting site for visible dust	28/09/24, 07:08
21/33/21, 22:00 to 20/33/21, 00:00	Assess potential for shifting operations to more favourable conditions	No current activities	28/09/24, 07:08
	Ensure water truck is on standby to apply water	Water truck is on standby	28/09/24, 07:08
Low Trigger	Pre-emptive watering of stockpiles before handling	Watering not required	28/09/24, 07:08
28/09/24, 00:00 to 28/09/24, 03:00	Visual observations of site every 3 hours	Operators inspecting site for visible dust	28/09/24, 07:08

	Assess potential for shifting operations to more favourable conditions	No current activities	28/09/24, 07:08
	Ensure water truck is on standby to apply water	Water truck is on standby	28/09/24, 07:08
	Pre-emptive watering of stockpiles before handling	Watering not required	28/09/24, 07:08
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	28/09/24, 07:08
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	28/09/24, 07:08
Low Trigger	Additional watering if warranted	Additional watering not required	28/09/24, 07:08
28/09/24, 06:00 to 28/09/24, 09:00	Review ambient monitoring PM10 levels	Ambient monitoring being reviewed	28/09/24, 07:08
	Assess potential for shifting operations to more favourable conditions	No current activities	28/09/24, 07:08
	Ensure water truck is on standby to apply water	Water truck is on standby	28/09/24, 07:08
	Pre-emptive watering of stockpiles before handling	Watering not required	28/09/24, 07:08
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	28/09/24, 07:08
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	28/09/24, 07:08
High Trigger	Additional watering if warranted	Additional watering not required	28/09/24, 07:08
28/09/24, 09:00 to 28/09/24, 12:00	Review ambient monitoring PM10 levels	Ambient monitoring being reviewed	28/09/24, 07:08
	Assess potential for shifting operations to more favourable conditions	No current activities	28/09/24, 17:20
	Ensure water truck is on standby to apply water	Water truck is on standby	28/09/24, 17:20
Low Trigger	Pre-emptive watering of stockpiles before handling	Watering not required	28/09/24, 17:20
28/09/24, 18:00 to 28/09/24, 21:00	Visual observations of site every 3 hours	Operators inspecting site for visible dust	28/09/24, 17:20

#### **Visual Observations**