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## QUARTERLY DUST MANAGEMENT REPORT FOR BIRKENHEAD WORKS

**COMPLIANCE DATE:** 31/10/22 - Quarter 3, 2022 **EPA Licence 1126: Dust Management Plan (U-755)** 

Licensed site: Adelaide Brighton Cement, Birkenhead Works

62 Elder Road, Birkenhead, SA 5015

Date of Submission: 31 October 2022

Version Number: 1



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

# Glossary

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

Purpose	The purpose of the Dust Management Plan (DMP) is to facilitate the ongoing implementation of dust control measures to minimise offsite dust from the Facility.
Background	The DMP 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 DMP. All triggers, associated responses and actions are captured in the Dust Management Dashboard and Control System, for reporting and analysis.
	The Plan 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 Dust Management Plan (DMP), 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 Monitor Locations



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

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

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

#### **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

Exceedance Reports	There were no 24-hour exceedances of $PM_{10}$ and $PM_{2.5}$ Air (EPP) criteria on ambient particulate monitors in the community, during this reporting period.
Summary	Summary of TARP alerts and actions for the quarter (refer to appendix 1):
	<ul> <li>A total of 205 trigger alerts were rasied for the quarter</li> <li>A total of 701 actions in response to the alerts were implemented for the quarter</li> <li>An average of 3 to 4 actions per trigger</li> </ul>
	This report confirms the current TARP is assisting in managing dust control measures to minimise offsite dust from the site.
Appendix 1	TARP reports for July, August and September 2022

# 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, 2022 and 01 August, 2022 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	06/07/22, 07:33
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	06/07/22, 07:33
Low Trigger	awareness to sources of dust is required		
05/07/22, 22:00 to 06/07/22, 07:33	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	06/07/22, 07:33
	awareness to sources of dust is required		
High Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	08/07/22, 09:09
08/07/22, 02:00 to 08/07/22, 09:10	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	08/07/22, 09:10
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	08/07/22, 09:26
Medium Trigger	awareness to sources of dust is required		
08/07/22, 07:00 to 08/07/22, 09:27	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	08/07/22, 09:26
	emissions in the region of the exceeding monitor		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	09/07/22, 07:15
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	09/07/22, 17:16
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	09/07/22, 07:15
Low Trigger	awareness to sources of dust is required		
09/07/22, 07:00 to 09/07/22, 17:17	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	09/07/22, 17:16
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	09/07/22, 21:20
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/07/22, 05:19
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	09/07/22, 21:20
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/07/22, 05:19
	awareness to sources of dust is required		· '
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	09/07/22, 21:20
	awareness to sources of dust is required		

Medium Trigger	Alast valariant analysis that direct larges are also at all the refere hairbanned	Onesestava aleuted	10/07/22 0F:10
09/07/22, 21:00 to 10/07/22, 05:19	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/07/22, 05:19
	awareness to sources of dust is required	On another alerted	10/07/00 00:44
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	12/07/22, 22:44
	awareness to sources of dust is required	On another alerted	10/07/00 00:44
<b>-</b> ·	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	12/07/22, 22:44
ow Trigger	awareness to sources of dust is required	On waters about d	10/07/00 00:44
2/07/22, 08:00 to 12/07/22, 22:45	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	12/07/22, 22:44
	awareness to sources of dust is required	On waters about d	12/07/22 02:40
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	13/07/22, 03:4
	awareness to sources of dust is required	No succession the succession	12/07/22 06:20
	Alert relevant operators that dust levels are elevated therefore heightened	No operators in the area	13/07/22, 06:20
	awareness to sources of dust is required	Operators alerted	12/07/22 07:11
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	13/07/22, 07:13
	awareness to sources of dust is required		12/07/00 00 20
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	13/07/22, 08:3
	awareness to sources of dust is required		12/07/00 02 4
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	13/07/22, 03:4
	awareness to sources of dust is required	No succession the succession	12 /07 /22 06:2
	Alert relevant operators that dust levels are elevated therefore heightened	No operators in the area	13/07/22, 06:20
	awareness to sources of dust is required	On waters about d	12 /07 /22 07.1
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	13/07/22, 07:13
	awareness to sources of dust is required		12 /07 /00 00 21
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	13/07/22, 08:35
	awareness to sources of dust is required		12 /07 /00 02 4
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	13/07/22, 03:4!
	awareness to sources of dust is required	No an austrona in the cases	12/07/22 06:20
	Alert relevant operators that dust levels are elevated therefore heightened	No operators in the area	13/07/22, 06:20
	awareness to sources of dust is required	On avatous alasted	13/07/22, 07:13
Medium Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	13/07/22, 07:13
.3/07/22, 04:00 to 13/07/22, 08:35	awareness to sources of dust is required  Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	13/07/22, 08:35
13/01/22, 04:00 to 13/01/22, 06:35	,	Operators alerted	13/07/22, 06:33
	awareness to sources of dust is required  Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	14/07/22, 03:00
	awareness to sources of dust is required	Operators alerted	14/07/22, 03:00
	· · · · · · · · · · · · · · · · · · ·	Oneveteus eleuted	14/07/22, 03:00
A. diam. Triaman	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	14/07/22, 03:00
Medium Trigger 14/07/22, 00:00 to 14/07/22, 03:02	awareness to sources of dust is required	Operators alerted	14/07/22 02:0:
4/07/22, 00:00 to 14/07/22, 03:02	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	14/07/22, 03:03
	awareness to sources of dust is required  Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	14/07/22 10:22
	awareness to sources of dust is required	Operators alerted	14/07/22, 19:32
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	14/07/22, 20:23
	awareness to sources of dust is required	Operators alerted	14/01/22, 20.2.
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	14/07/22, 20:2:
	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	14/07/22, 20:2:
	emissions in the region of the exceeding monitor	Checked for dust emissions in the area - no sources identified	14/01/22, 20.2.
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	14/07/22, 21:30
	awareness to sources of dust is required	Operators arented	14/01/22, 21:30
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	14/07/22, 22:53
	awareness to sources of dust is required	Operators alerted	14/01/22, 22:53
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	14/07/22, 22:53
	<u> </u>		14/07/22, 22:53
	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	

	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	14/07/22, 19:32
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	14/07/22, 20:21
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	14/07/22, 20:21
	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	14/07/22, 20:21
	emissions in the region of the exceeding monitor	checked for dast chiissions in the area - no sources identified	14/01/22, 20.21
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	14/07/22, 21:30
	awareness to sources of dust is required	operators are rea	11/01/22, 21.30
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	14/07/22, 22:53
	awareness to sources of dust is required	Operators alcreed	14/01/22, 22.33
Medium Trigger	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	14/07/22, 22:53
.4/07/22, 20:00 to 14/07/22, 22:53	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	14/07/22, 22:53
4/01/22, 20:00 to 14/01/22, 22:53	, ,	Checked for dust emissions in the area - no sources identified	14/01/22, 22:55
	emissions in the region of the exceeding monitor		10/07/00 00 00
ow Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	19/07/22, 20:32
8/07/22, 23:00 to 19/07/22, 20:32	awareness to sources of dust is required		/
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	21/07/22, 08:37
	awareness to sources of dust is required		
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	21/07/22, 08:37
	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	21/07/22, 08:37
	emissions in the region of the exceeding monitor		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	21/07/22, 10:22
	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	21/07/22, 10:22
1/07/22, 08:00 to 21/07/22, 10:22	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	21/07/22, 10:22
	emissions in the region of the exceeding monitor		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	23/07/22, 20:37
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	24/07/22, 01:21
	awareness to sources of dust is required		
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	24/07/22, 01:21
	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	24/07/22, 01:21
	emissions in the region of the exceeding monitor		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	24/07/22, 02:15
	awareness to sources of dust is required		, , , , , , , , , , , , , , , , , , , ,
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	24/07/22, 02:15
	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	24/07/22, 02:15
	emissions in the region of the exceeding monitor	checked for dast chissions in the area. No sources identified	21/01/22, 02:13
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	24/07/22, 06:23
	awareness to sources of dust is required	Operators alcreed	24/01/22, 00.23
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	24/07/22, 06:23
	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	24/07/22, 06:23
	, ,	Checked for dust emissions in the area - no sources identified	24/01/22, 00.23
	emissions in the region of the exceeding monitor  Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	23/07/22, 20:37
	,	Operators alerted	23/01/22, 20:31
	awareness to sources of dust is required	On sustain alored	24/07/22 21 21
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	24/07/22, 01:21
	awareness to sources of dust is required		04/07/02 21 21
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	24/07/22, 01:21
	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	24/07/22, 01:21
	emissions in the region of the exceeding monitor		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	24/07/22, 02:15
	awareness to sources of dust is required		1

	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	24/07/22, 02:15
	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	24/07/22, 02:15
	emissions in the region of the exceeding monitor		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	24/07/22, 06:23
	awareness to sources of dust is required		
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	24/07/22, 06:23
	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	24/07/22, 06:23
	emissions in the region of the exceeding monitor		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	23/07/22, 20:37
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	24/07/22, 01:21
	awareness to sources of dust is required		
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	24/07/22, 01:21
	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	24/07/22, 01:21
	emissions in the region of the exceeding monitor		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	24/07/22, 02:15
	awareness to sources of dust is required		
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	24/07/22, 02:15
	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	24/07/22, 02:15
	emissions in the region of the exceeding monitor		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	24/07/22, 06:23
	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	24/07/22, 06:23
23/07/22, 22:00 to 24/07/22, 06:24	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	24/07/22, 06:23
	emissions in the region of the exceeding monitor		

### **DT2 Eastern Grounds**

Trigger Time	Response	Action Taken	Action Recorded
	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	20/07/22, 08:07
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	20/07/22, 08:07
	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	20/07/22, 08:07
	emissions in the region of the exceeding monitor		
	Reduce the relevant dust producing activities or reschedule to more suitable meteorological conditions	No current activities	20/07/22, 08:07
	If dust mitigation equipment is unavailable or at fault, investigate temporary	Investigated temporary mitigation options	20/07/22, 08:07
High Trigger	alternative management practices	investigated temporary initigation options	20/01/22, 00:01
19/07/22, 23:00 to 20/07/22, 08:08	Mobilise water cart or apply additional water sprays	Mobilised water cart	20/07/22, 08:07
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	20/07/22, 10:34
20/07/22, 10:00 to 20/07/22, 10:34	awareness to sources of dust is required	Operators dicreed	20/01/22, 10.51
20/01/22, 10:00 to 20/01/22, 10:01	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	21/07/22, 06:27
	awareness to sources of dust is required	Operators dicreed	21/01/22, 00:21
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	21/07/22, 07:15
	awareness to sources of dust is required	Operators are red	21/01/22, 01.13
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	21/07/22, 07:15
	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	21/07/22, 07:15
Medium Trigger	emissions in the region of the exceeding monitor	Checked for dust emissions in the area - no sources identified	21/01/22, 01.13
21/07/22, 07:00 to 21/07/22, 08:37	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	21/07/22, 08:37
21/01/22, 01:00 to 21/01/22, 08:31	awareness to sources of dust is required	Operators alerted	21/01/22, 00.31
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	24/07/22, 01:21
	awareness to sources of dust is required	Operators alerted	24/01/22, 01.21
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	24/07/22, 01:21
	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	24/07/22, 01:21
	emissions in the region of the exceeding monitor	Checked for dust emissions in the area - no sources identified	24/01/22, 01.21
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	24/07/22, 02:16
	awareness to sources of dust is required	Operators are red	24/01/22, 02.10
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	24/07/22, 02:16
	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	24/07/22, 02:16
	emissions in the region of the exceeding monitor	Checked for dust emissions in the area - no sources identified	24/01/22, 02.10
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	24/07/22, 06:25
	awareness to sources of dust is required	Operators alerted	24/01/22, 00.23
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	24/07/22, 01:21
	awareness to sources of dust is required	Operators alerted	24/01/22, 01.21
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	24/07/22, 01:21
	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	24/07/22, 01:21
	emissions in the region of the exceeding monitor	Checked for dust emissions in the area - no sources identified	24/01/22, 01.21
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	24/07/22, 02:16
	awareness to sources of dust is required	Operators alerted	24/01/22, 02.10
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	24/07/22, 02:16
	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	24/07/22, 02:16
	emissions in the region of the exceeding monitor	Checked for dust emissions in the area - no sources identified	24/01/22, 02:10
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	24/07/22, 06:25
	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	24/07/22, 01:21
			24/07/22, 01:21

	Visual observations onsite to check if there are any significant visible dust emissions in the region of the exceeding monitor	Checked for dust emissions in the area - no sources identified	24/07/22, 01:21
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	24/07/22, 02:16
	awareness to sources of dust is required		
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	24/07/22, 02:16
	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	24/07/22, 02:16
Medium Trigger	emissions in the region of the exceeding monitor		
23/07/22, 22:00 to 24/07/22, 06:26	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	24/07/22, 06:25
	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	29/07/22, 00:05
28/07/22, 23:00 to 29/07/22, 00:06	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	20/07/22, 08:20
20/07/22, 08:00 to 20/07/22, 08:20	awareness to sources of dust is required		

### **DT5 Northern Grounds**

Trigger Time	Response	Action Taken	Action Recorde
Low Trigger 01/07/22, 07:00 to 01/07/22, 08:36	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	01/07/22, 08:35
71/01/22, 01:00 to 01/01/22, 00:00	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	01/07/22, 17:41
	awareness to sources of dust is required	operators are rea	01/01/22, 11:11
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	01/07/22, 17:41
ow Trigger	awareness to sources of dust is required	operators are rea	01/01/22, 11:11
01/07/22, 09:00 to 01/07/22, 17:43	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	01/07/22, 17:41
51/01/22, 03:00 to 01/01/22, 11:43	awareness to sources of dust is required	Operators are red	01/01/22, 11:41
ow Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	01/07/22, 17:43
01/07/22, 15:00 to 01/07/22, 17:43	awareness to sources of dust is required	operators are rea	01/01/22, 11:13
ow Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	01/07/22, 17:43
1/07/22, 17:00 to 01/07/22, 17:43	awareness to sources of dust is required	Operators are red	01/01/22, 11.43
1/01/22, 11:00 to 01/01/22, 11:13	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	01/07/22, 19:33
	awareness to sources of dust is required	Operators are red	01/01/22, 19.33
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	01/07/22, 19:33
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	01/07/22, 19:33
	awareness to sources of dust is required	Operators alerted	01/01/22, 20.21
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	01/07/22, 20:27
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	01/07/22, 20:27
	awareness to sources of dust is required	Operators alerted	01/07/22, 21.19
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	01/07/22, 21:19
	Alert relevant operators that dust levels are elevated therefore heightened		01/07/22, 21:19
	awareness to sources of dust is required	Operators alerted	01/07/22, 22:22
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	01/07/22 10:23
	awareness to sources of dust is required	Operators alerted	01/07/22, 19:33
		Charled controls are in place and weating	01/07/22, 19:33
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	, , ,
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	01/07/22, 20:27
	awareness to sources of dust is required		01/07/00 00 07
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	01/07/22, 20:27
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	01/07/22, 21:19
	awareness to sources of dust is required		
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	01/07/22, 21:19
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	01/07/22, 22:22
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	01/07/22, 19:33
	awareness to sources of dust is required		
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	01/07/22, 19:33
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	01/07/22, 20:27
	awareness to sources of dust is required		
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	01/07/22, 20:27
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	01/07/22, 21:19
	awareness to sources of dust is required		
ledium Trigger	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	01/07/22, 21:19
1/07/22, 19:00 to 01/07/22, 22:22	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	01/07/22, 22:22
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	03/07/22, 10:19
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	03/07/22, 10:19
		Operators alerted	03

02/07/22, 07:00 to 03/07/22, 10:19	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	03/07/22, 10:19
	awareness to sources of dust is required		
ow Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	03/07/22, 10:19
02/07/22, 16:00 to 03/07/22, 10:19	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	02/07/22, 21:46
	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	02/07/22, 21:46
02/07/22, 21:00 to 02/07/22, 21:46	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	02/07/22, 21:46
	emissions in the region of the exceeding monitor		
ow Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	03/07/22, 00:48
02/07/22, 23:00 to 03/07/22, 00:48	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	06/07/22, 07:32
Low Trigger	awareness to sources of dust is required		
03/07/22, 11:00 to 06/07/22, 07:32	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	06/07/22, 07:32
	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	06/07/22, 07:32
04/07/22, 06:00 to 06/07/22, 07:32	awareness to sources of dust is required		
Medium Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	06/07/22, 07:32
04/07/22, 13:00 to 06/07/22, 07:32	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	06/07/22, 07:32
04/07/22, 15:00 to 06/07/22, 07:32	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	06/07/22, 07:32
ow Trigger	awareness to sources of dust is required		
04/07/22, 17:00 to 06/07/22, 07:33	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	06/07/22, 07:32
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	06/07/22, 07:33
	awareness to sources of dust is required		
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	06/07/22, 07:33
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	06/07/22, 07:33
	awareness to sources of dust is required		/
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	06/07/22, 07:33
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	06/07/22, 07:33
Medium Trigger	awareness to sources of dust is required		
05/07/22, 02:00 to 06/07/22, 07:33	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	06/07/22, 07:33
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	06/07/22, 07:33
Medium Trigger	awareness to sources of dust is required		05 (07 (00 07 00
05/07/22, 08:00 to 06/07/22, 07:33	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	06/07/22, 07:33
	awareness to sources of dust is required		06/07/00 07 04
_ow Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	06/07/22, 07:34
05/07/22, 23:00 to 06/07/22, 07:34	awareness to sources of dust is required	On water alasted	07/07/22 07:01
_ow Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	07/07/22, 07:01
07/07/22, 00:00 to 07/07/22, 07:01	awareness to sources of dust is required	On water alasted	07/07/22 07:01
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	07/07/22, 07:01
07/07/22, 02:00 to 07/07/22, 07:01	awareness to sources of dust is required	Other (annita annualty)	00/07/22 00:00
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Other (provide comments)	08/07/22, 09:09
07/07/22, 22:00 to 08/07/22, 09:09	awareness to sources of dust is required	On avertown alasted	09/07/22 00 00
Medium Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	08/07/22, 09:09
08/07/22, 02:00 to 08/07/22, 09:09	awareness to sources of dust is required	On avertown alasted	09/07/22 00:10
High Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	08/07/22, 09:10
08/07/22, 06:00 to 08/07/22, 09:10 Low Trigger	awareness to sources of dust is required  Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	08/07/22, 09:10
			1 U8/U7/22 U9:10

	Alert relevant operators that dust levels are elevated therefore heightened awareness to sources of dust is required	Operators alerted	09/07/22, 21:20
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/07/22, 05:20
	awareness to sources of dust is required	Operators alerted	10/01/22, 05.20
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	09/07/22, 21:20
	awareness to sources of dust is required	Operators alcreed	09/01/22, 21.20
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/07/22, 05:20
	awareness to sources of dust is required	Operators alerted	10/01/22, 05.20
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	09/07/22, 21:20
ow Trigger	awareness to sources of dust is required	Operators alerted	09/01/22, 21.20
9/07/22, 20:00 to 10/07/22, 05:20	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/07/22, 05:20
9/01/22, 20:00 to 10/01/22, 03:20	awareness to sources of dust is required	Operators alerted	10/01/22, 03.20
ow Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/07/22, 05:20
0/07/22, 01:00 to 10/07/22, 05:20	awareness to sources of dust is required	Operators alerted	10/01/22, 05.20
Medium Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	12/07/22, 22:44
2/07/22, 17:00 to 12/07/22, 22:44	awareness to sources of dust is required	Operators alerted	12/01/22, 22.44
ow Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	13/07/22, 02:54
3/07/22, 01:00 to 13/07/22, 02:54	awareness to sources of dust is required	Operators alerted	13/01/22, 02:54
Medium Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	14/07/22, 03:03
00	,	Operators alerted	14/07/22, 03:03
3/07/22, 21:00 to 14/07/22, 03:03	awareness to sources of dust is required	On contain about d	14/07/22 02:02
ow Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	14/07/22, 03:02
3/07/22, 23:00 to 14/07/22, 03:03 Medium Trigger	awareness to sources of dust is required	On anatom about al	16/07/22, 19:01
00	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	16/07/22, 19:01
6/07/22, 10:00 to 16/07/22, 19:01	awareness to sources of dust is required		00/07/00 00 04
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	20/07/22, 09:24
	awareness to sources of dust is required		00/07/00 10 04
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	20/07/22, 10:34
	awareness to sources of dust is required		00 (07 (00 00 04
<b>+</b> .	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	20/07/22, 09:24
ow Trigger	awareness to sources of dust is required		20 (07 (00 10 04
0/07/22, 09:00 to 20/07/22, 10:34	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	20/07/22, 10:34
<b>-</b> .	awareness to sources of dust is required		01 (07 (00 07 16
ow Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	21/07/22, 07:16
1/07/22, 07:00 to 21/07/22, 07:16	awareness to sources of dust is required		/2= /22 24 24
Medium Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	24/07/22, 01:21
3/07/22, 21:00 to 24/07/22, 01:21	awareness to sources of dust is required		/2= /22 24 22
ow Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	24/07/22, 01:22
4/07/22, 01:00 to 24/07/22, 01:22	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	29/07/22, 00:05
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	29/07/22, 00:20
	awareness to sources of dust is required		
1edium Trigger	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	29/07/22, 00:20
9/07/22, 00:00 to 29/07/22, 00:21	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	29/07/22, 00:20
	emissions in the region of the exceeding monitor		

## Meteorology - Observations

# Meteorology - Forecast

Trigger Time	Response	Action Taken	Action Recorded
	Assess potential for shifting operations to more favourable conditions	No current activities	11/07/22, 03:43
	Ensure water truck is on standby to apply water	Water truck is on standby	11/07/22, 03:43
Low Trigger	Pre-emptive watering of stockpiles before handling	Watering not required	11/07/22, 03:43
11/07/22, 00:00 to 11/07/22, 03:00	Visual observations of site every 3 hours	Operators inspecting site for visible dust	11/07/22, 03:43
	Assess potential for shifting operations to more favourable conditions	No current activities	11/07/22, 03:43
	Ensure water truck is on standby to apply water	Water truck is on standby	11/07/22, 03:43
Low Trigger	Pre-emptive watering of stockpiles before handling	Watering not required	11/07/22, 03:43
11/07/22, 03:00 to 11/07/22, 06:00	Visual observations of site every 3 hours	Operators inspecting site for visible dust	11/07/22, 03:43
Low Trigger	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	15/07/22, 18:16
16/07/22, 00:00 to 16/07/22, 03:00	Ensure water truck is on standby to apply water	Water truck is on standby	15/07/22, 18:16
Medium Trigger	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	15/07/22, 18:16
16/07/22, 03:00 to 16/07/22, 06:00	Ensure water truck is on standby to apply water	Water truck is on standby	15/07/22, 18:16
.,, ,, ,	Assess potential for shifting operations to more favourable conditions	No current activities	21/07/22, 17:16
	Ensure water truck is on standby to apply water	Water truck is on standby	21/07/22, 17:16
	Pre-emptive watering of stockpiles before handling	Watering not required	21/07/22, 17:16
Low Trigger	Visual observations of site every 3 hours	Operators inspecting site for visible dust	21/07/22, 17:16
21/07/22, 18:00 to 21/07/22, 21:00	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	22/07/22, 11:32
21/01/22, 10:00 to 21/01/22, 21:00	Assess potential for shifting operations to more favourable conditions	No current activities	21/07/22, 17:16
	Ensure water truck is on standby to apply water	Water truck is on standby	21/07/22, 17:16
	Pre-emptive watering of stockpiles before handling	Watering not required	21/07/22, 17:16
Low Trigger	Visual observations of site every 3 hours	Operators inspecting site for visible dust	21/07/22, 17:16
21/07/22, 21:00 to 22/07/22, 00:00	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	22/07/22, 17:10
21/01/22, 21:00 to 22/01/22, 00:00	Assess potential for shifting operations to more favourable conditions	No current activities	21/07/22, 17:16
	Ensure water truck is on standby to apply water	Water truck is on standby	21/07/22, 17:16
	Pre-emptive watering of stockpiles before handling	Water truck is on standay  Watering not required	21/07/22, 17:16
Low Trigger	Visual observations of site every 3 hours	Operators inspecting site for visible dust	21/07/22, 17:16
22/07/22, 00:00 to 22/07/22, 03:00	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	, , ,
22/01/22, 00:00 to 22/01/22, 03:00		No current activities	22/07/22, 11:32 21/07/22, 17:16
	Assess potential for shifting operations to more favourable conditions		, , ,
	Ensure water truck is on standby to apply water	Water truck is on standby	21/07/22, 17:16
	Pre-emptive watering of stockpiles before handling	Watering not required	21/07/22, 17:16
Low Trigger	Visual observations of site every 3 hours	Operators inspecting site for visible dust	21/07/22, 17:16
22/07/22, 03:00 to 22/07/22, 06:00	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	22/07/22, 11:32
	Assess potential for shifting operations to more favourable conditions	No current activities	21/07/22, 17:16
	Ensure water truck is on standby to apply water	Water truck is on standby	21/07/22, 17:16
	Pre-emptive watering of stockpiles before handling	Watering not required	21/07/22, 17:16
Low Trigger	Visual observations of site every 3 hours	Operators inspecting site for visible dust	21/07/22, 17:16
22/07/22, 06:00 to 22/07/22, 09:00	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	22/07/22, 11:32
	Assess potential for shifting operations to more favourable conditions	No current activities	21/07/22, 17:16
	Ensure water truck is on standby to apply water	Water truck is on standby	21/07/22, 17:16
	Pre-emptive watering of stockpiles before handling	Watering not required	21/07/22, 17:16
Low Trigger	Visual observations of site every 3 hours	Operators inspecting site for visible dust	21/07/22, 17:16
22/07/22, 09:00 to 22/07/22, 12:00	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	22/07/22, 11:32
Low Trigger 29/07/22, 21:00 to 30/07/22, 00:00	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	30/07/22, 07:52
Low Trigger 30/07/22, 00:00 to 30/07/22, 03:00	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	30/07/22, 07:52
Low Trigger 30/07/22, 09:00 to 30/07/22, 12:00	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	30/07/22, 08:37

Low Trigger	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	31/07/22, 07:03
30/07/22, 18:00 to 30/07/22, 21:00			
Medium Trigger	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	31/07/22, 07:03
30/07/22, 21:00 to 31/07/22, 00:00			
Medium Trigger	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	31/07/22, 07:03
31/07/22, 00:00 to 31/07/22, 03:00			

### **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, 2022 and 01 September, 2022 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	08/08/22, 04:43
08/08/22, 00:00 to 08/08/22, 04:44	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	09/08/22, 19:39
Medium Trigger	awareness to sources of dust is required		
09/08/22, 07:00 to 09/08/22, 19:39	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	09/08/22, 19:39
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	09/08/22, 19:47
09/08/22, 09:00 to 09/08/22, 19:47	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	16/08/22, 22:07
16/08/22, 21:00 to 16/08/22, 22:08	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	21/08/22, 05:27
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	21/08/22, 05:27
Medium Trigger	awareness to sources of dust is required		
20/08/22, 22:00 to 21/08/22, 05:27	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	21/08/22, 05:27
	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	21/08/22, 08:47
21/08/22, 08:00 to 21/08/22, 08:47	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	26/08/22, 10:25
	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	26/08/22, 10:25
26/08/22, 03:00 to 26/08/22, 10:25	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	26/08/22, 10:25
	emissions in the region of the exceeding monitor		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	26/08/22, 10:25
26/08/22, 06:00 to 26/08/22, 10:25	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	26/08/22, 10:25
High Trigger	awareness to sources of dust is required		
26/08/22, 08:00 to 26/08/22, 10:25	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	26/08/22, 10:25
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	26/08/22, 21:20
	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	26/08/22, 21:20
26/08/22, 21:00 to 26/08/22, 21:20	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	26/08/22, 21:20
	emissions in the region of the exceeding monitor		

	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	30/08/22, 07:33
	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	30/08/22, 07:33
29/08/22, 09:00 to 30/08/22, 07:34	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	30/08/22, 07:33
	emissions in the region of the exceeding monitor		

### **DT2 Eastern Grounds**

Trigger Time	Response	Action Taken	Action Recorded
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	16/08/22, 22:06
	awareness to sources of dust is required		
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	16/08/22, 22:06
	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	16/08/22, 22:06
High Trigger	emissions in the region of the exceeding monitor		
16/08/22, 20:00 to 16/08/22, 22:07	Reduce the relevant dust producing activities or reschedule to more suitable	Other (provide comments)	16/08/22, 22:06
	meteorological conditions		

## DT3 Block 9

Trigger Time	Response	Action Taken	Action Recorded
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	26/08/22, 10:25
	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	26/08/22, 10:25
26/08/22, 07:00 to 26/08/22, 10:25	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	26/08/22, 10:25
	emissions in the region of the exceeding monitor		

### **DT5 Northern Grounds**

Trigger Time	Response	Action Taken	Action Recorded
Medium Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	02/08/22, 19:27
02/08/22, 14:00 to 02/08/22, 19:27	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	16/08/22, 22:05
	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	16/08/22, 22:05
16/08/22, 20:00 to 16/08/22, 22:06	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	16/08/22, 22:05
	emissions in the region of the exceeding monitor		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	20/08/22, 21:40
	awareness to sources of dust is required		
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	20/08/22, 21:40
	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	20/08/22, 21:40
	emissions in the region of the exceeding monitor		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	21/08/22, 05:27
	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	21/08/22, 05:27
20/08/22, 21:00 to 21/08/22, 05:27	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	21/08/22, 05:27
	emissions in the region of the exceeding monitor		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	21/08/22, 05:27
21/08/22, 01:00 to 21/08/22, 05:27	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	26/08/22, 10:24
	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	26/08/22, 10:24
26/08/22, 02:00 to 26/08/22, 10:24	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	26/08/22, 10:24
	emissions in the region of the exceeding monitor		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	26/08/22, 10:25
26/08/22, 07:00 to 26/08/22, 10:25	awareness to sources of dust is required		

## 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	02/08/22, 07:27
	Ensure water truck is on standby to apply water	Water truck is on standby	02/08/22, 07:27
	Pre-emptive watering of stockpiles before handling	Watering not required	02/08/22, 07:27
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	02/08/22, 07:27
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	02/08/22, 07:27
ow Trigger	Additional watering if warranted	Additional watering not required	02/08/22, 07:27
2/08/22, 06:00 to 02/08/22, 09:00	Review ambient monitoring PM10 levels	Ambient monitoring being reviewed	02/08/22, 07:27
, , , ,	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	02/08/22, 07:27
	Ensure water truck is on standby to apply water	Water truck is on standby	02/08/22, 07:27
	Pre-emptive watering of stockpiles before handling	Watering not required	02/08/22, 07:27
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	02/08/22, 07:27
	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	02/08/22, 07:27
igh Trigger	Additional watering if warranted	Additional watering not required	02/08/22, 07:27
2/08/22, 09:00 to 02/08/22, 12:00	Review ambient monitoring PM10 levels	Ambient monitoring being reviewed	02/08/22, 07:27
2/00/22, 03:00 to 02/00/22, 12:00	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	02/08/22, 07:27
	Ensure water truck is on standby to apply water	Water truck is on standby	02/08/22, 07:27
	Pre-emptive watering of stockpiles before handling	Water track is on standary  Watering not required	02/08/22, 07:27
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	02/08/22, 07:27
	Visual observations of major stockpiles		02/08/22, 07:27
:b T-:!	<u> </u>	Operators inspecting major stockpiles for visible dust	
igh Trigger	Additional watering if warranted	Additional watering not required	02/08/22, 07:27
/08/22, 15:00 to 02/08/22, 18:00	Review ambient monitoring PM10 levels	Ambient monitoring being reviewed	02/08/22, 07:2
	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	09/08/22, 19:4
	Ensure water truck is on standby to apply water	Water truck is on standby	09/08/22, 19:4
	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	10/08/22, 07:28
	Ensure water truck is on standby to apply water	Water truck is on standby	10/08/22, 07:2
	Pre-emptive watering of stockpiles before handling	Watering not required	10/08/22, 07:2
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	10/08/22, 07:2
w Trigger	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	10/08/22, 07:2
/08/22, 21:00 to 10/08/22, 00:00	Additional watering if warranted	Additional watering not required	10/08/22, 07:2
	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	09/08/22, 19:4
	Ensure water truck is on standby to apply water	Water truck is on standby	09/08/22, 19:4
	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	10/08/22, 07:2
	Ensure water truck is on standby to apply water	Water truck is on standby	10/08/22, 07:2
	Pre-emptive watering of stockpiles before handling	Watering not required	10/08/22, 07:2
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	10/08/22, 07:2
w Trigger	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	10/08/22, 07:2
/08/22, 00:00 to 10/08/22, 03:00	Additional watering if warranted	Additional watering not required	10/08/22, 07:2
	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	09/08/22, 19:4
	Ensure water truck is on standby to apply water	Water truck is on standby	09/08/22, 19:4
	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	10/08/22, 07:2
	Ensure water truck is on standby to apply water	Water truck is on standby	10/08/22, 07:2
	Pre-emptive watering of stockpiles before handling	Watering not required	10/08/22, 07:28
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	10/08/22, 07:28
edium Trigger	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	10/08/22, 07:28
/08/22, 03:00 to 10/08/22, 06:00	Additional watering if warranted	Additional watering not required	10/08/22, 07:2
,, ,,,,,	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	09/08/22, 19:4
	Ensure water truck is on standby to apply water	Water truck is on standby	09/08/22, 19:4
	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	10/08/22, 07:28
	Ensure water truck is on standby to apply water	Water truck is on standby	10/08/22, 07:2

	Pre-emptive watering of stockpiles before handling	Watering not required	10/08/22, 07:28
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	10/08/22, 07:28
Medium Trigger	Visual observations of major stockpiles	Operators inspecting site for visible dust  Operators inspecting major stockpiles for visible dust	10/08/22, 07:28
10/08/22, 06:00 to 10/08/22, 09:00	Additional watering if warranted	Additional watering not required	10/08/22, 07:28
10/00/22, 00.00 to 10/00/22, 03.00	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	09/08/22, 19:47
	Ensure water truck is on standby to apply water	Water truck is on standby	09/08/22, 19:47
	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	10/08/22, 07:28
	Ensure water truck is on standby to apply water	Water truck is on standby	10/08/22, 07:28
	Pre-emptive watering of stockpiles before handling	Water track is on standay  Watering not required	10/08/22, 07:28
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	10/08/22, 07:28
ligh Trigger	Visual observations of major stockpiles	Operators inspecting site for visible dust  Operators inspecting major stockpiles for visible dust	10/08/22, 07:28
.0/08/22, 09:00 to 10/08/22, 12:00	Additional watering if warranted	Additional watering not required	10/08/22, 07:28
.0/08/22, 09.00 to 10/08/22, 12.00	9	Shifted operations to more favourable conditions	09/08/22, 07:28
	Assess potential for shifting operations to more favourable conditions  Ensure water truck is on standby to apply water	Water truck is on standby	09/08/22, 19:47
		· ·	, , ,
	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	10/08/22, 07:28
	Ensure water truck is on standby to apply water	Water truck is on standby	10/08/22, 07:28
	Pre-emptive watering of stockpiles before handling	Watering not required	10/08/22, 07:28
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	10/08/22, 07:28
ligh Trigger	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	10/08/22, 07:28
0/08/22, 12:00 to 10/08/22, 15:00	Additional watering if warranted	Additional watering not required	10/08/22, 07:28
	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	09/08/22, 19:47
	Ensure water truck is on standby to apply water	Water truck is on standby	09/08/22, 19:47
	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	10/08/22, 07:28
	Ensure water truck is on standby to apply water	Water truck is on standby	10/08/22, 07:28
	Pre-emptive watering of stockpiles before handling	Watering not required	10/08/22, 07:28
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	10/08/22, 07:28
ledium Trigger	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	10/08/22, 07:28
0/08/22, 15:00 to 10/08/22, 18:00	Additional watering if warranted	Additional watering not required	10/08/22, 07:28
	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	17/08/22, 11:22
	Ensure water truck is on standby to apply water	Water truck is on standby	17/08/22, 11:22
	Pre-emptive watering of stockpiles before handling	Watering not required	17/08/22, 11:22
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	17/08/22, 11:22
1edium Trigger	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	17/08/22, 11:22
7/08/22, 09:00 to 17/08/22, 12:00	Additional watering if warranted	Additional watering not required	17/08/22, 11:22
	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	17/08/22, 11:22
	Ensure water truck is on standby to apply water	Water truck is on standby	17/08/22, 11:22
	Pre-emptive watering of stockpiles before handling	Watering not required	17/08/22, 11:22
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	17/08/22, 11:22
ledium Trigger	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	17/08/22, 11:22
7/08/22, 12:00 to 17/08/22, 15:00	Additional watering if warranted	Additional watering not required	17/08/22, 11:22
	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	17/08/22, 11:22
	Ensure water truck is on standby to apply water	Water truck is on standby	17/08/22, 11:22
	Pre-emptive watering of stockpiles before handling	Watering not required	17/08/22, 11:22
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	17/08/22, 11:22
edium Trigger	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	17/08/22, 11:22
7/08/22, 15:00 to 17/08/22, 18:00	Additional watering if warranted	Additional watering not required	17/08/22, 11:22
7 55/22, 15.00 to 17/05/22, 10.00	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	27/08/22, 20:54
	Ensure water truck is on standby to apply water	Water truck is on standby	27/08/22, 20:54
ow Trigger	Pre-emptive watering of stockpiles before handling	Water track is on standay  Watering not required	27/08/22, 20:54
7/08/22, 21:00 to 28/08/22, 00:00	Visual observations of site every 3 hours	Operators inspecting site for visible dust	27/08/22, 20:54
7/00/22, 21.00 to 20/00/22, 00.00	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	27/08/22, 20:54
	Assess potential for similing operations to more lavourable conditions	140 Opportunity to sinit operations	21/00/22, 20:54

Low Trigger	Pre-emptive watering of stockpiles before handling	Watering not required	27/08/22, 20:54
28/08/22, 00:00 to 28/08/22, 03:00	Visual observations of site every 3 hours	Operators inspecting site for visible dust	27/08/22, 20:54
	Assess potential for shifting operations to more favourable conditions	No current activities	30/08/22, 07:33
	Ensure water truck is on standby to apply water	Water truck is on standby	30/08/22, 07:33
Low Trigger	Pre-emptive watering of stockpiles before handling	Watering not required	30/08/22, 07:33
28/08/22, 09:00 to 28/08/22, 12:00	Visual observations of site every 3 hours	Operators inspecting site for visible dust	30/08/22, 07:33
	Assess potential for shifting operations to more favourable conditions	No current activities	30/08/22, 07:33
	Ensure water truck is on standby to apply water	Water truck is on standby	30/08/22, 07:33
Low Trigger	Pre-emptive watering of stockpiles before handling	Watering not required	30/08/22, 07:33
28/08/22, 21:00 to 29/08/22, 00:00	Visual observations of site every 3 hours	Operators inspecting site for visible dust	30/08/22, 07:33

### **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, 2022 and 01 October, 2022 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	01/09/22, 06:14
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	01/09/22, 06:14
Low Trigger	awareness to sources of dust is required		
01/09/22, 00:00 to 01/09/22, 06:14	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	01/09/22, 06:14
	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	01/09/22, 06:15
01/09/22, 06:00 to 01/09/22, 06:15	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	06/09/22, 01:48
	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	06/09/22, 01:48
05/09/22, 07:00 to 06/09/22, 01:49	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	06/09/22, 01:48
	emissions in the region of the exceeding monitor		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	06/09/22, 12:15
	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	06/09/22, 12:15
06/09/22, 07:00 to 06/09/22, 12:16	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	06/09/22, 12:15
	emissions in the region of the exceeding monitor		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	07/09/22, 07:30
	awareness to sources of dust is required		
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	07/09/22, 07:30
	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	07/09/22, 07:30
	emissions in the region of the exceeding monitor		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	07/09/22, 08:38
	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	07/09/22, 08:38
07/09/22, 07:00 to 07/09/22, 08:38	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	07/09/22, 08:38
	emissions in the region of the exceeding monitor		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	10/09/22, 21:26
10/09/22, 21:00 to 10/09/22, 21:26	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	13/09/22, 20:44
13/09/22, 08:00 to 13/09/22, 20:45	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	23/09/22, 01:53
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	23/09/22, 06:56
	awareness to sources of dust is required	Operators alcricu	25/05/22, 00:50
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	23/09/22, 06:56
	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	23/09/22, 06:56
	emissions in the region of the exceeding monitor		, ,
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	23/09/22, 01:53
	awareness to sources of dust is required		, ,
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	23/09/22, 06:56
	awareness to sources of dust is required		, ,
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	23/09/22, 06:56
	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	23/09/22, 06:56
	emissions in the region of the exceeding monitor		, , ,
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	23/09/22, 01:53
	awareness to sources of dust is required		.,,
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	23/09/22, 06:56
	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	23/09/22, 06:56
23/09/22, 01:00 to 23/09/22, 06:56	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	23/09/22, 06:56
,,,,,,,,	emissions in the region of the exceeding monitor		
Medium Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	23/09/22, 06:56
23/09/22, 05:00 to 23/09/22, 06:56	awareness to sources of dust is required	o por ators and to a	25/05/22, 00:00
23/03/22, 03:00 to 23/03/22, 00:30	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	23/09/22, 10:43
	awareness to sources of dust is required	Operators dicreed	25/05/22, 10.15
Medium Trigger	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	23/09/22, 10:43
23/09/22, 09:00 to 23/09/22, 10:43	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	23/09/22, 10:43
13/03/22, 03.00 to 23/03/22, 10.13	emissions in the region of the exceeding monitor	checked for dast christians in the area. He sources identified	25/05/22, 10:15
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	25/09/22, 06:52
Medium Trigger	awareness to sources of dust is required	Operators dicreed	25/05/22, 00.52
24/09/22, 22:00 to 25/09/22, 06:53	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	25/09/22, 06:52
24/09/22, 22:00 to 23/09/22, 00:33	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	25/09/22, 22:56
	awareness to sources of dust is required	Operators alcreed	25/05/22, 22.50
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	25/09/22, 22:56
	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	25/09/22, 22:56
	emissions in the region of the exceeding monitor	Checked for dust emissions in the area - no sources identified	25/09/22, 22.30
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	26/09/22, 00:06
	awareness to sources of dust is required	Operators alerted	20/09/22, 00.00
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	26/09/22, 00:20
	awareness to sources of dust is required	Operators alerted	20/09/22, 00.20
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	26/09/22, 00:20
	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	26/09/22, 00:20
	emissions in the region of the exceeding monitor	Checked for dust emissions in the area - no sources identified	20/09/22, 00:20
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	26/09/22, 01:23
	,	Operators alerted	20/09/22, 01:23
	awareness to sources of dust is required	Charlest controls are in place and condition	26 /00 /22 01 22
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	26/09/22, 01:23
	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	26/09/22, 01:23
	emissions in the region of the exceeding monitor	Or water alored	25 /00 /00 00 55
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	25/09/22, 22:56
	awareness to sources of dust is required		25/09/22, 22:56
			1 76 (110 / 27) 27.66
	Ensure all routine dust management practices have been implemented  Visual observations onsite to check if there are any significant visible dust	Checked controls are in place and working  Checked for dust emissions in the area - no sources identified	25/09/22, 22:56

	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	26/09/22, 00:06
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	26/09/22, 00:20
	awareness to sources of dust is required		
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	26/09/22, 00:20
	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	26/09/22, 00:20
	emissions in the region of the exceeding monitor		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	26/09/22, 01:23
	awareness to sources of dust is required		
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	26/09/22, 01:23
	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	26/09/22, 01:23
	emissions in the region of the exceeding monitor		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	25/09/22, 22:56
	awareness to sources of dust is required		
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	25/09/22, 22:56
	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	25/09/22, 22:56
	emissions in the region of the exceeding monitor		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	26/09/22, 00:06
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	26/09/22, 00:20
	awareness to sources of dust is required		
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	26/09/22, 00:20
	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	26/09/22, 00:20
	emissions in the region of the exceeding monitor		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	26/09/22, 01:23
	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	26/09/22, 01:23
25/09/22, 22:00 to 26/09/22, 01:23	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	26/09/22, 01:23
	emissions in the region of the exceeding monitor		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	29/09/22, 07:47
Medium Trigger	awareness to sources of dust is required		
29/09/22, 07:00 to 29/09/22, 21:31	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	29/09/22, 07:47
	awareness to sources of dust is required		
		<del>_</del>	•

### **DT2 Eastern Grounds**

Trigger Time	Response	Action Taken	Action Recorded
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	01/09/22, 06:14
01/09/22, 01:00 to 01/09/22, 06:15	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	03/09/22, 07:37
03/09/22, 07:00 to 03/09/22, 07:37	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	04/09/22, 04:29
04/09/22, 01:00 to 04/09/22, 04:30	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	06/09/22, 12:16
	awareness to sources of dust is required		
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	06/09/22, 12:16
	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	06/09/22, 12:16
	emissions in the region of the exceeding monitor		
	Reduce the relevant dust producing activities or reschedule to more suitable	No current activities	06/09/22, 12:16
	meteorological conditions		
	If dust mitigation equipment is unavailable or at fault, investigate temporary	Investigated temporary mitigation options	06/09/22, 12:16
High Trigger	alternative management practices		
06/09/22, 08:00 to 06/09/22, 12:18	Mobilise water cart or apply additional water sprays	Mobilised water cart	06/09/22, 12:16

### DT3 Block 9

## **DT5 Northern Grounds**

Trigger Time	Response	Action Taken	Action Recorded
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	07/09/22, 07:05
06/09/22, 21:00 to 07/09/22, 07:05	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	23/09/22, 01:55
23/09/22, 01:00 to 23/09/22, 01:56	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	23/09/22, 06:56
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	23/09/22, 06:56
Low Trigger	awareness to sources of dust is required		
23/09/22, 04:00 to 23/09/22, 06:56	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	23/09/22, 06:56
	awareness to sources of dust is required		, ,
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	23/09/22, 10:43
23/09/22, 10:00 to 23/09/22, 10:44	awareness to sources of dust is required		, ,
Medium Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	24/09/22, 07:52
24/09/22, 05:00 to 24/09/22, 07:52	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	24/09/22, 19:45
24/09/22, 19:00 to 24/09/22, 19:45	awareness to sources of dust is required		
Low Trigger	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	25/09/22, 06:52
24/09/22, 21:00 to 25/09/22, 06:52	awareness to sources of dust is required		, ,
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	26/09/22, 00:21
	awareness to sources of dust is required		, ,
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	26/09/22, 01:23
	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	26/09/22, 01:23
26/09/22, 01:00 to 26/09/22, 01:23	Visual observations onsite to check if there are any significant visible dust	Checked for dust emissions in the area - no sources identified	26/09/22, 01:23
	emissions in the region of the exceeding monitor		, ,
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	30/09/22, 07:22
	awareness to sources of dust is required		, ,
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	30/09/22, 13:10
	awareness to sources of dust is required		, ,
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	30/09/22, 07:22
Low Trigger	awareness to sources of dust is required		
30/09/22, 07:00 to 30/09/22, 13:10	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	30/09/22, 13:10
, , ,	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	30/09/22, 23:17
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	01/10/22, 00:43
	awareness to sources of dust is required		, ,
	Ensure all routine dust management practices have been implemented	Checked controls are in place and working	01/10/22, 00:43
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	01/10/22, 01:15
	awareness to sources of dust is required		
	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	01/10/22, 02:32
Low Trigger	awareness to sources of dust is required	·	
30/09/22, 23:00 to 01/10/22, 04:06	Alert relevant operators that dust levels are elevated therefore heightened	Operators alerted	01/10/22, 04:05
,, -,,,,,,	awareness to sources of dust is required	' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	, , , , , , , , , , , , , , , , , , , ,

## Meteorology - Observations

## Meteorology - Forecast

Trigger Time	Response	Action Taken	Action Recorded
	Assess potential for shifting operations to more favourable conditions	No current activities	06/09/22, 18:15
	Ensure water truck is on standby to apply water	Water truck is on standby	06/09/22, 18:15
	Pre-emptive watering of stockpiles before handling	Watering not required	06/09/22, 18:15
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	06/09/22, 18:15
	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	07/09/22, 07:05
	Ensure water truck is on standby to apply water	Water truck is on standby	07/09/22, 07:05
	Pre-emptive watering of stockpiles before handling	Watering not required	07/09/22, 07:05
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	07/09/22, 07:05
ow Trigger	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	07/09/22, 07:05
07/09/22, 03:00 to 07/09/22, 06:00	Additional watering if warranted	Additional watering not required	07/09/22, 07:05
.,,,==,	Assess potential for shifting operations to more favourable conditions	No current activities	06/09/22, 18:15
	Ensure water truck is on standby to apply water	Water truck is on standby	06/09/22, 18:15
	Pre-emptive watering of stockpiles before handling	Watering not required	06/09/22, 18:15
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	06/09/22, 18:15
	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	07/09/22, 07:05
	Ensure water truck is on standby to apply water	Water truck is on standby	07/09/22, 07:05
	Pre-emptive watering of stockpiles before handling	Water truck is on standay  Watering not required	07/09/22, 07:05
	Visual observations of site every 3 hours	<u> </u>	/ /
Td	,	Operators inspecting site for visible dust	07/09/22, 07:05
ow Trigger	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	07/09/22, 07:05
07/09/22, 06:00 to 07/09/22, 09:00	Additional watering if warranted	Additional watering not required	07/09/22, 07:05
	Assess potential for shifting operations to more favourable conditions	No current activities	06/09/22, 18:15
	Ensure water truck is on standby to apply water	Water truck is on standby	06/09/22, 18:15
	Pre-emptive watering of stockpiles before handling	Watering not required	06/09/22, 18:15
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	06/09/22, 18:15
	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	07/09/22, 07:05
	Ensure water truck is on standby to apply water	Water truck is on standby	07/09/22, 07:05
	Pre-emptive watering of stockpiles before handling	Watering not required	07/09/22, 07:05
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	07/09/22, 07:05
Low Trigger	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	07/09/22, 07:05
07/09/22, 09:00 to 07/09/22, 12:00	Additional watering if warranted	Additional watering not required	07/09/22, 07:05
	Assess potential for shifting operations to more favourable conditions	No current activities	06/09/22, 18:15
	Ensure water truck is on standby to apply water	Water truck is on standby	06/09/22, 18:15
	Pre-emptive watering of stockpiles before handling	Watering not required	06/09/22, 18:15
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	06/09/22, 18:15
	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	07/09/22, 07:05
	Ensure water truck is on standby to apply water	Water truck is on standby	07/09/22, 07:05
	Pre-emptive watering of stockpiles before handling	Watering not required	07/09/22, 07:05
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	07/09/22, 07:05
Medium Trigger	Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	07/09/22, 07:05
7/09/22, 12:00 to 07/09/22, 15:00	Additional watering if warranted	Additional watering not required	07/09/22, 07:05
.,, ,, , ,	Assess potential for shifting operations to more favourable conditions	No current activities	06/09/22, 18:15
	Ensure water truck is on standby to apply water	Water truck is on standby	06/09/22, 18:15
	Pre-emptive watering of stockpiles before handling	Watering not required	06/09/22, 18:15
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	06/09/22, 18:15
	Assess potential for shifting operations to more favourable conditions	Shifted operations to more favourable conditions	07/09/22, 07:05
	Ensure water truck is on standby to apply water	Water truck is on standby	07/09/22, 07:05
	Pre-emptive watering of stockpiles before handling	Water truck is on standby  Watering not required	07/09/22, 07:05
	Visual observations of site every 3 hours	Operators inspecting site for visible dust	07/09/22, 07:05
	visual observations of site every 5 nours	Operators inspecting site for visible dust	01/09/22, 07:05

Additional watering if warranted	Additional watering not required	07/09/22, 07:09
Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	13/09/22, 20:4
Ensure water truck is on standby to apply water	Water truck is on standby	13/09/22, 20:4
Pre-emptive watering of stockpiles before handling	Watering not required	13/09/22, 20:4
Visual observations of site every 3 hours	Operators inspecting site for visible dust	13/09/22, 20:4
Visual observations of major stockpiles	Operators inspecting major stockpiles for visible dust	13/09/22, 20:4
Additional watering if warranted	Additional watering not required	13/09/22, 20:4
Review ambient monitoring PM10 levels	Ambient monitoring being reviewed	13/09/22, 20:4
Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	14/09/22, 07:3
Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	13/09/22, 20:4
Ensure water truck is on standby to apply water	Water truck is on standby	13/09/22, 20:4
Pre-emptive watering of stockpiles before handling	Watering not required	13/09/22, 20:4
Visual observations of site every 3 hours	Operators inspecting site for visible dust	13/09/22, 20:4
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	9 ,	13/09/22, 20:4
Review ambient monitoring PM10 levels	Ambient monitoring being reviewed	13/09/22, 20:4
	I Nie ammentunitus ta abift amanatiana	14/09/22, 07:3
Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	, , ,
Assess potential for shifting operations to more favourable conditions  Assess potential for shifting operations to more favourable conditions  Ensure water truck is on standby to apply water	No opportunity to sinit operations  No current activities  Water truck is on standby	15/09/22, 07:0 15/09/22, 07:0 15/09/22, 07:0
	Assess potential for shifting 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 Visual observations of major stockpiles Additional watering if warranted Review ambient monitoring PM10 levels Assess potential for shifting operations to more favourable conditions Assess potential for shifting 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 Visual observations of major stockpiles Additional watering if warranted Review ambient monitoring PM10 levels Assess potential for shifting operations to more favourable conditions Assess potential for shifting 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 Visual observations of major stockpiles Additional watering if warranted Review ambient monitoring PM10 levels Assess potential for shifting operations to more favourable conditions Assess potential for shifting operations to more favourable conditions Assess potential for shifting operations to more favourable conditions Assess potential for shifting operations to more favourable conditions Assess potential for shifting operations to more favourable conditions Assess potential for shifting operations to more favourable conditions Assess potential for shifting 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 Visual observations of site operations to more favourable conditions Assess potential for shifting operations to more favourable conditions Assess potential for shifting operations to more favourable conditions Assess potential for shifting operations to more favourable conditions Assess potentia	Assess potential for shifting operations to more favourable conditions  Rosure water truck is on standby to apply water  Pre-emptive watering of stockpiles before handling  Visual observations of grant monitoring peling perations to more favourable conditions  Assess potential for shifting operations to more favourable conditions  Assess potential for shifting operations to more favourable conditions  Assess potential for shifting operations to more favourable conditions  Assess potential for shifting operations to more favourable conditions  Assess potential for shifting 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  Visual observations of major stockpiles  Assess potential for shifting operations to more favourable conditions  Assess potential for shifting operations to more favourable conditions  Assess potential for shifting operations to more favourable conditions  Assess potential for shifting operations to more favourable conditions  Assess potential for shifting operations to more favourable conditions  Assess potential for shifting operations to more favourable conditions  Assess potential for shifting operations to more favourable conditions  Assess potential for shifting operations to more favourable conditions  Assess potential for shifting operations to more favourable conditions  No opportunity to shift operations  Assess potential for shifting operations to more favourable conditions  No opportunity to shift operations  No opportunity to shift operations  Assess potential for shifting operations to more favourable conditions  No opportunity to shift operations  No opportunity to shift operations  Assess potential for shifting operations to more favourable conditions  Assess potential for shifting operations to more favourable conditions  Assess potential for shifting operations to more favourable conditions  Assess potential for shifting operations to more fav

Low Trigger			
15/09/22, 06:00 to 15/09/22, 09:00	Visual observations of site every 3 hours	Operators inspecting site for visible dust	15/09/22, 07:04
Low Trigger	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	21/09/22, 09:53
20/09/22, 03:00 to 20/09/22, 06:00			
Medium Trigger	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	21/09/22, 09:53
20/09/22, 06:00 to 20/09/22, 09:00			
High Trigger	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	21/09/22, 09:53
20/09/22, 09:00 to 20/09/22, 12:00			
High Trigger	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	21/09/22, 09:53
20/09/22, 12:00 to 20/09/22, 15:00			
High Trigger	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	21/09/22, 09:53
20/09/22, 15:00 to 20/09/22, 18:00			
High Trigger	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	21/09/22, 09:53
20/09/22, 18:00 to 20/09/22, 21:00			
Medium Trigger	Assess potential for shifting operations to more favourable conditions	No opportunity to shift operations	21/09/22, 09:53
20/09/22, 21:00 to 21/09/22, 00:00			

### **Visual Observations**