

Bengalla Mine Incident Register 2018



Incident Number	Date	Incident Reported to	Nature of Incident	Incident Details	Action Taken	Incident Status
1	1/01/2018	NSW Department of Planning and Environment	Air Quality (PM10)	<p>The Bengalla Mine (Bengalla) January 2018 PM10 monitoring results indicate a potential exceedance of the 24hr criteria of 50 µg/m3 at High Volume Air Sampler (HVAS) PM4 on Wybong Road (58 ug/m3) on 01/01/18.</p> <p>BMC receives data from one HVAS (PM3 - Roxburgh Road) owned and operated by Mt Arthur Coal (MAC). The January 2018 PM3 results from MAC indicated a potential exceedance of the 24hr criteria of 50 µg/m3 at PM3 (63 µg/m3) on 01/01/18.</p>	<p>BMC notified the Department of Planning and Environment (DPE) of potential exceedances at PM4 and PM3 via emails dated 12/02/18 and 20/02/18 respectively.</p> <p>BMC engaged Pacific Environment Pty Ltd to investigate the elevated PM10 levels recorded at PM3 and PM4 and to determine Bengalla's contribution to the elevated levels.</p> <p>In an email dated 28/02/18, BMC provided DPE with the investigation report and a summary of operations undertaken at Bengalla on 01/01/18.</p> <p>The investigation found that:</p> <ul style="list-style-type: none"> • PM3 – Bengalla's contribution is unable to be estimated based on the prevailing wind directions. Due to those wind directions, it is likely that Bengalla was not the dominant contributor. • PM4 – Bengalla's contribution is estimated at 18 ug/m3. It is more likely that other sources in the vicinity of the monitor, were the dominant contributor. 	Remedial action not required.
2	10/01/18	NSW Environmental Protection Authority	Air Quality (Dust)	<p>On 10/01/2018, Environmental Protection Authority (EPA) personnel attended Wybong Road north of Bengalla Mine (Bengalla) from approximately 11:30 hrs to 12:30 hrs.</p> <p>The EPA requested that the Bengalla Mining Company Pty Ltd (BMC) provide the EPA with information about the activities that were occurring on site and dust controls that were being implemented on 10/01/18.</p>	<p>In a letter dated 18/01/18 BMC provided the EPA with requested information including:</p> <ul style="list-style-type: none"> • There was no blasting undertaken on the morning of 10/01/18; • The dragline was stood down for approximately half of the day shift for an environmental delay; • Three out of eight diggers were not operating; • The five diggers in use and all four drills were operating in pit; • Dumping was occurring on the upper dumps for the first half of the day shift and the central dumps for the second half; • Three out of 32 trucks were not operating during the day shift; • All five water waters were operating for varying periods during the day shift; and • There were no topsoil stripping or topsoil loading activities undertaken. <p>Real-Time monitors 24 hour average particulate matter less than 10 microns (PM10) results were also provided.</p> <p>BMC did not receive any complaints from the neighbours or the community regarding dust on 10/01/18.</p>	Remedial action not required.
3	13/01/2018	NSW Department of Planning and Environment	Air Quality (PM10)	<p>The Bengalla Mine (Bengalla) January 2018 PM10 monitoring results indicate a potential exceedance of the 24hr criteria of 50 µg/m3 at High Volume Air Sampler (HVAS) PM1 on Racecourse Road (73 ug/m3) on 13/01/18.</p>	<p>In an email dated 12/02/18, Bengalla Mining Company Pty Limited (BMC) notified the NSW Department of Planning and Environment (DPE) of the potential exceedance at PM1.</p> <p>BMC engaged Pacific Environment Pty Ltd to investigate the elevated PM10 level recorded at PM1 and to determine Bengalla's contribution to the elevated level.</p> <p>In an email dated 28/02/18, BMC provided DPE with the investigation report and a summary of operations undertaken at Bengalla on 13/01/18.</p> <p>The investigation estimated Bengalla's contribution to the elevated reading at PM1 on 13/01/18 to be a maximum of 47 ug/m3.</p> <p>In an email dated 05/03/18, BMC provided DPE with an updated report which included reference to inversion tower monitoring data.</p>	Remedial action not required.
4	19/01/2018	NSW Department of Planning and Environment	Air Quality (PM10)	<p>The Bengalla Mine (Bengalla) January 2018 PM10 monitoring results indicate a potential exceedance of the 24hr criteria of 50 µg/m3 at High Volume Air Sampler (HVAS) PM1 on Racecourse Road (52 ug/m3) and at PM4 on Wybong Road (120 ug/m3) on 19/01/18.</p> <p>BMC receives data from one HVAS (PM3 - Roxburgh Road) owned and operated by Mt Arthur Coal (MAC). The January 2018 PM3 results from MAC indicated a potential exceedance of the 24hr criteria of 50 µg/m3 at PM3 (91 µg/m3) on 19/01/18.</p>	<p>In an email dated 12/02/18, Bengalla Mining Company Pty Limited (BMC) notified the Department of Planning and Environment (DPE) of the potential exceedances at PM1 and PM4.</p> <p>In an email dated 20/02/18, BMC notified the DPE of the potential exceedance at PM3.</p> <p>BMC engaged Pacific Environment Pty Ltd to investigate the elevated PM10 levels recorded at PM1, PM3 and PM4 and to determine Bengalla's contribution to the elevated levels.</p> <p>In an email dated 06/03/18, BMC provided DPE with the investigation report and a summary of operations undertaken at Bengalla on 19/01/18.</p> <p>The investigation found that:</p> <ul style="list-style-type: none"> • PM1 – based on the prevailing wind directions and other available information, it is considered that Bengalla did not contribute to the measurement at this monitor; • PM3 – Bengalla's contribution is estimated at no more than 30 ug/m3; and • PM4 – Bengalla's contribution is unable to be quantified based on the available information, however Bengalla was not the dominant contributor. 	Remedial action not required.
5	23/01/18	N/A	Other (Bushfire)	<p>On the night of 23/01/18, following a storm, a fire ignited on part of the Bengalla Mining Company Pty Limited (BMC) Kenalea biodiversity offset property.</p>	<p>At 20:34 Hrs on 23/01/18 the Kenelea Tenant phoned the Environmental Advisor, informing them of a possible bushfire at Kenalea. At 20:50 hrs the Environmental Advisor notified the Environment and Approvals Superintendent.</p> <p>At 22:56 hrs, the Environmental Advisor received a phone call from the Rural Fire Service (RFS) Operations Officer who confirmed that the bushfire was located on Kenelea and that it was not controlled.</p> <p>The bushfire ceased on 4 February 2018. Firefighting required extensive effort from Rouchel RFS, Stewarts Brook RFS, BMC contractors and employees.</p>	Remedial action completed.

6	25/01/2018	NSW Department of Planning and Environment	Air Quality (PM10)	The Bengalla Mine (Bengalla) January 2018 PM10 monitoring results indicate a potential exceedance of the 24hr criteria of 50 µg/m3 at High Volume Air Sampler (HVAS) PM1 on Racecourse Road (54 ug/m3) and at PM4 on Wybong Road (76 ug/m3) on 25/01/18.	<p>In an email dated 12/02/18, Bengalla Mining Company Pty Limited (BMC) notified the Department of Planning and Environment (DPE) of the potential exceedances at PM1 and PM4.</p> <p>BMC engaged Pacific Environment Pty Ltd to investigate the elevated PM10 levels recorded at PM1 and PM4 and to determine Bengalla's contribution to the elevated levels.</p> <p>In an email dated 06/03/18, BMC provided DPE with the investigation report and a summary of operations undertaken at Bengalla on 25/01/18.</p> <p>On 20/03/18 BMC advised DPE that further information had been received, regarding activities undertaken at Bengalla that may influence the investigation report for 25/01/18.</p> <p>On 29/03/18 BMC provided DPE with a revised investigation report for 25/01/18 accounting for the new information.</p> <p>The report found that:</p> <ul style="list-style-type: none"> • PM1 – Bengalla's contribution is unable to be estimated based on the prevailing wind directions. Due to those wind directions, it is likely that Bengalla was not the dominant contributor. • PM4 – Bengalla's contribution is estimated at 22 ug/m3. 	Remedial action not required.
7	31/01/2018	NSW Department of Planning and Environment	Air Quality (PM10)	The Bengalla Mine (Bengalla) January 2018 PM10 monitoring results indicate a potential exceedance of the 24hr criteria of 50 µg/m3 at High Volume Air Sampler (HVAS) PM4 on Wybong Road (68 ug/m3) on 31/01/18.	<p>In an email dated 12/02/18, Bengalla Mining Company Pty Limited (BMC) notified the Department of Planning and Environment (DPE) the potential exceedance at PM4.</p> <p>BMC engaged Pacific Environment Pty Ltd to investigate the elevated PM10 level recorded at PM4 and to determine Bengalla's contribution to the elevated level.</p> <p>In an email dated 06/03/18, BMC provided DPE with the investigation report and a summary of operations undertaken at Bengalla on 31/01/18.</p> <p>On 20/03/18 BMC advised DPE that further information had been received, regarding activities undertaken at Bengalla, that may influence the investigation report for 31/01/18.</p> <p>On 29/03/18 BMC provided DPE with a revised investigation report for 31/01/18 accounting for the new information.</p> <p>The investigation estimated Bengalla's contribution to the elevated reading at PM4 on 31/01/18 to be 24 ug/m3.</p>	Remedial action not required.
8	6/02/2018	NSW Department of Planning and Environment	Air Quality (PM10)	The Bengalla Mine (Bengalla) February 2018 PM10 monitoring results indicate a potential exceedance of the 24hr criteria of 50 µg/m3 at High Volume Air Sampler (HVAS) PM4 on Wybong Road (61 ug/m3) on 06/02/18.	<p>In an email dated 07/03/18, Bengalla Mining Company Pty Limited (BMC) notified the NSW Department of Planning and Environment (DPE) of the potential exceedance at PM4.</p> <p>BMC engaged Pacific Environment Pty Ltd to investigate the elevated PM10 level recorded at PM4 and to determine Bengalla's contribution to the elevated level.</p> <p>In an email dated 29/03/18, BMC provided DPE with the investigation report and a summary of operations undertaken at Bengalla on 06/02/18.</p> <p>The investigation report concludes that Bengalla did not contribute more than 50 ug/m3 to the elevated reading. Although Bengalla's exact contribution cannot be determined, the report concludes that Bengalla was not the dominant contributor to the elevated reading.</p> <p>In an email dated 02/05/18 DPE advised that, based on the information provided...from BMC, the Department is satisfied that BMC undertook reasonable and feasible measures to avoid and mitigate exceedances of the criteria, with BMC contribution <50ug/m3 in all events. As such, no further action is required at this stage. However, please ensure these exceedances are reported in the next Annual Review.</p>	Remedial action not required.
9	12/02/2018	NSW Department of Planning and Environment	Air Quality (PM10)	The Bengalla Mine (Bengalla) February 2018 PM10 monitoring results indicate a potential exceedance of the 24hr criteria of 50 µg/m3 at High Volume Air Sampler (HVAS) PM4 on Wybong Road (57 ug/m3) on 12/02/18.	<p>In an email dated 07/03/18, Bengalla Mining Company Pty Limited (BMC) notified the Department of Planning and Environment (DPE) of the potential exceedance at PM4.</p> <p>BMC engaged Pacific Environment Pty Ltd to investigate the elevated PM10 level recorded at PM4 and to determine Bengalla's contribution to the elevated level.</p> <p>In an email dated 29/03/18, BMC provided DPE with the investigation report and a summary of operations undertaken at Bengalla on 12/02/18.</p> <p>The investigation estimated that the Bengalla operations contributed a maximum of 7 ug/m3 to the elevated reading at PM4 on 12/02/18.</p> <p>In an email dated 02/05/18 DPE advised that, based on the information provided...from BMC, the Department is satisfied that BMC undertook reasonable and feasible measures to avoid and mitigate exceedances of the criteria, with BMC contribution <50ug/m3 in all events. As such, no further action is required at this stage. However, please ensure these exceedances are reported in the next Annual Review.</p>	Remedial action not required.

10	18/02/2018	NSW Department of Planning and Environment	Air Quality (PM10)	<p>The Bengalla Mine (Bengalla) February 2018 PM10 monitoring results indicate potential exceedances of the 24hr criteria of 50 µg/m3 at High Volume Air Samplers (HVAS) PM1 on Racecourse Road (60 ug/m3) and PM4 on Wybong Road (99 ug/m3) on 18/02/18.</p> <p>BMC receives data from one HVAS (PM3 - Roxburgh Road) owned and operated by Mt Arthur Coal (MAC). The February 2018 PM3 results from MAC indicated a potential exceedance of the 24hr criteria of 50 µg/m3 at PM3 (55 µg/m3) on 18/02/18.</p>	<p>In an email dated 07/03/18, Bengalla Mining Company Pty Limited (BMC) notified the NSW Department of Planning and Environment (DPE) of the potential exceedances at PM1 and PM4.</p> <p>In an email dated 16/03/18, BMC notified the DPE of the potential exceedance at PM3.</p> <p>BMC engaged Pacific Environment Pty Ltd to investigate the elevated PM10 levels recorded at PM1, PM3 and PM4 and to determine Bengalla's contribution to the elevated levels.</p> <p>In an email dated 29/03/18, BMC provided DPE with the investigation report and a summary of operations undertaken at Bengalla on 18/02/18.</p> <p>The investigation report concludes that Bengalla did not contribute more than 50 ug/m3 to the elevated readings on 18/02/18. The report estimates that the maximum contribution made by Bengalla to the PM1 reading is 2.4 ug/m3. The report further concludes that Bengalla did not contribute to the elevated reading at PM3 and was not the dominant contributor to the elevated reading at PM4.</p> <p>In an email dated 02/05/18 DPE advised that, based on the information provided...from BMC, the Department is satisfied that BMC undertook reasonable and feasible measures to avoid and mitigate exceedances of the criteria, with BMC contribution <50ug/m3 in all events. As such, no further action is required at this stage. However, please ensure these exceedances are reported in the next Annual Review.</p>	Remedial action not required.
11	2/03/2018	NSW Department of Planning and Environment	Air Quality (PM10)	<p>The Bengalla Mine (Bengalla) March 2018 PM10 monitoring results indicate a potential exceedance of the 24hr criteria of 50 µg/m3 at High Volume Air Sampler (HVAS) PM4 on Wybong Road (53 ug/m3) on 02/03/18.</p>	<p>In an email dated 10/04/18, Bengalla Mining Company Pty Limited (BMC) notified the Department of Planning and Environment (DPE) of the potential exceedance at PM4.</p> <p>BMC engaged Environmental Resources Management (formerly Pacific Environment Pty Ltd) to investigate the elevated PM10 level recorded at PM4 and to determine Bengalla's contribution to the elevated level.</p> <p>In an email dated 20/04/18, BMC provided DPE with the investigation report and a summary of operations undertaken at Bengalla on 02/03/18.</p> <p>The investigation report concludes that Bengalla did not contribute more than 50 ug/m3 to the elevated reading on 02/03/18. Bengalla's exact contribution cannot be determined however, the report suggests that Bengalla was not the dominant contributor.</p> <p>In an email dated 02/05/18 DPE advised that, based on the information provided...from BMC, the Department is satisfied that BMC undertook reasonable and feasible measures to avoid and mitigate exceedances of the criteria, with BMC contribution <50ug/m3 in all events. As such, no further action is required at this stage. However, please ensure these exceedances are reported in the next Annual Review.</p>	Remedial action not required.
12	9/03/2018	N/A	Water	<p>As at 09/03/18 the automatic raw effluent pumps in the sewerage pit were out of service and the sewerage pit was being sucked out manually on a daily basis. On 09/03/18 the sucker truck was delayed and the sewerage pit overflowed.</p>	<p>The spill was contained and the contaminated material was transported to the effluent management facility. The sewerage pumps were repaired on 14/03/18.</p>	Remedial action completed.
13	20/03/2018	NSW Department of Planning and Environment	Air Quality (PM10)	<p>The Bengalla Mine (Bengalla) March 2018 PM10 monitoring results indicate potential exceedances of the 24hr criteria of 50 µg/m3 at High Volume Air Samplers (HVAS) PM1 on Racecourse Road (69 ug/m3), PM2 at the St James School (99 ug/m3) and PM4 on Wybong Road (93 ug/m3) on 20/03/18.</p> <p>BMC receives data from one HVAS (PM3 - Roxburgh Road) owned and operated by Mt Arthur Coal (MAC). The March 2018 PM3 results from MAC indicated a potential exceedance of the 24hr criteria of 50 µg/m3 at PM3 (71 µg/m3) on 20/04/18.</p>	<p>In an email dated 10/04/18, Bengalla Mining Company Pty Limited (BMC) notified the Department of Planning and Environment (DPE) of the potential exceedances at PM1, PM2 and PM4.</p> <p>In an email dated 17/04/18, BMC notified the DPE that potential exceedance at PM3.</p> <p>BMC engaged Environmental Resources Management to investigate the elevated PM10 levels recorded on 20/03/18 and to determine Bengalla's contribution to the elevated levels.</p> <p>In an email dated 20/04/18, BMC provided DPE with the investigation report and a summary of operations undertaken at Bengalla on 20/03/18.</p> <p>The investigation report concludes that Bengalla did not contribute more than 50 ug/m3 to any of the elevated readings on 20 March 2018. The report considers that a regional dust event was the dominant cause of the elevated readings (in combination with lawn mowing activities carried out in the vicinity of PM2 in respect of that monitor).</p> <p>In an email dated 02/05/18 DPE advised that, based on the information provided...from BMC, the Department is satisfied that BMC undertook reasonable and feasible measures to avoid and mitigate exceedances of the criteria, with BMC contribution <50ug/m3 in all events. As such, no further action is required at this stage. However, please ensure these exceedances are reported in the next Annual Review.</p>	Remedial action not required.
14	23/03/2018	N/A	Spill	<p>Excavator 3510 was operating at the Bengalla Mine (Bengalla) dam construction precinct, to the west of Bengalla Road. On 23/03/18 a drive hose on the excavator ruptured while it was travelling to a new location within the dam precinct. Approximately 10 - 15 litres of hydraulic oil was released to land. The spill occurred on an exposed clay area where the topsoil had been removed as part of the construction works. The spill occurred within the Ground Disturbance Permit (GDP) area and was contained within the immediate vicinity of the excavator.</p>	<p>Spill kit materials were utilised to control the spill. The spill was then contained via the instillation of an earthen bund around the excavator. A plastic cover was installed over banded area to protect the area from rain while the excavator underwent repairs.</p> <p>The contaminated clay material was excavated and hauled to the Bengalla Bioremediation Facility.</p>	Remedial action completed.

15	25/05/2018	NSW Department of Planning and Environment	Air Quality (PM10)	The Bengalla Mine (Bengalla) May 2018 PM10 monitoring results indicate a potential exceedance of the 24hr criteria of 50 µg/m3 at High Volume Air Sampler (HVAS) PM4 on Wybong Road (59 ug/m3) on 25/05/18.	<p>In an email dated 15/06/18, Bengalla Mining Company Pty Limited (BMC) notified the Department of Planning and Environment (DPE) of the potential exceedance at PM4.</p> <p>BMC engaged Environmental Resources Management to investigate the elevated PM10 level recorded at PM4 and to determine Bengalla's contribution to the elevated level.</p> <p>In an email dated 25/06/18, BMC provided DPE with the investigation report and a summary of operations undertaken at Bengalla on 25/05/18.</p> <p>The investigation estimated that Bengalla's operations (in conjunction with Mt Pleasant construction activities) contributed a maximum of 29 ug/m3 to the measurement at PM4 on 25/05/18.</p> <p>In an email dated 09/07/18 DPE advised that "Upon review of the...report, DPE has accepted the conclusions presented within, and will take no further action at this time in relation to the PM4 24 hour limit exceedance on 25 May 2018".</p>	Remedial action not required.
16	28/05/2018	NSW Department of Planning and Environment; NSW Environmental Protection Authority; and NSW Dam Safety Committee	Water	In May 2018 Bengalla Mining Company Pty Limited (BMC) identified that groundwater seepage was occurring in two areas: - An area south of Wybong Road and west of Dry Creek; and - Clean Water Dam 1 western cut wall.	<p>BMC notified the Department of Planning and Environment (DPE), Environmental Protection Authority (EPA) and Dam Safety Committee (DSC) regarding the incident.</p> <p>BMC engaged two independent specialists to investigate the seepage events.</p> <p>On 13/11/18 BMC provided the DPE, EPA and DSC with an investigation report on the seepage events.</p> <p>In a letter dated 14/12/18 the DSC requested that BMC address the investigation report recommendations. No further action is required.</p>	Monitoring continuing.
17	12/06/2018	N/A	Air Quality (Blast Fume)	The Bengalla Mining Company Pty Limited (BMC) fired blast S30-11-C1-BYWN at the Bengalla Mine (Bengalla) at 16:47:14 Hrs on the 12/06/17. The blast fume was rated a level 4B - orange / red NOx gas of medium extent (i.e. NOx Gases from up to 50% of blast holes in the shot).	<p>BMC engaged Orica Australia Pty Limited (Orica) to undertake a fume investigation on shot S30-11-C1-BYWN fired on 12/06/18.</p> <p>This investigation identified three factors that are the most likely cause of the fume generated on shot S30-11-C1-BYWN - single priming in the top deck, runaways and confinement. In the investigation report Orica made recommendations for preventing a reoccurrence.</p>	Remedial action not required.
18	24/07/2018	NSW Department of Planning and Environment	Air Quality (PM10)	The Bengalla Mine (Bengalla) July 2018 PM10 monitoring results indicate a potential exceedance of the 24hr criteria of 50 µg/m3 at High Volume Air Sampler (HVAS) PM1 on Racecourse Road (71 ug/m3) on 24/07/18.	<p>In an email dated 07/08/18, Bengalla Mining Company Pty Limited (BMC) notified the Department of Planning and Environment (DPE) of the potential exceedance at PM1.</p> <p>BMC investigate the elevated PM10 level recorded at PM1 to determine Bengalla's contribution to the elevated level.</p> <p>In an email dated 17/08/18, BMC provided DPE with the investigation report.</p> <p>The investigation estimated that Bengalla and the Mt Pleasant infrastructure contributed a maximum of 19 ug/m3 to the measurement at PM1 on 24/07/18.</p> <p>In an email dated 06/09/18 the DPE advised BMC that the DPE "...has reviewed and will not be taking any further action in regards to the 24 July 2018 PM10 24h dust exceedance at PM1".</p>	Remedial action not required.
19	23/08/2018	NSW Department of Planning and Environment	Air Quality (PM10)	The Bengalla Mine (Bengalla) August 2018 PM10 monitoring results indicate a potential exceedance of the 24hr criteria of 50 µg/m3 at High Volume Air Sampler (HVAS) PM4 on Wybong Road (65 ug/m3) on 23/08/18.	<p>In an email dated 12/09/18, Bengalla Mining Company Pty Limited (BMC) notified the Department of Planning and Environment (DPE) of the potential exceedance at PM1.</p> <p>BMC engaged Environmental Resources Management to investigate the elevated PM10 levels recorded on 23/08/18 and to determine Bengalla's contribution to the elevated levels.</p> <p>In an email dated 20/09/18, BMC provided DPE with the investigation report.</p> <p>The report concludes that Bengalla did not contribute more than 50 ug/m3 to the elevated reading. Based on the prevailing wind directions it is estimated that Bengalla's operations (in conjunction with the recently completed Mt Pleasant construction south of Wybong Road) contributed a maximum of 47 ug/m3 and Bengalla's dam construction contributed a maximum of 32 ug/m3 to the measurement at monitor PM4.</p> <p>In an email dated 24/09/18 DPE notified BMC that the DPE "...has reviewed the report '66048639(2) – Bengalla Air Quality Review – 23 August 2018 L1.pdf' and will not be taking any further action in relation to the 23 August 2018 PM4 elevated dust reading at this time".</p>	Remedial action not required.
20	30/08/2018	NSW Department of Planning and Environment	Air Quality (Spontaneous Combustion)	On 30/08/18 Bengalla Mining Company Pty Limited (BMC) notify the Department of Planning and Environment (DPE) regarding a spontaneous combustion occurring over a small area of Bengalla Mine (Bengalla).	At this time the spontaneous combustion had not left Bengalla and mitigation works were in progress.	Remedial action completed.

21	19/09/2018	NSW Environmental Protection Authority	Air Quality (Dust)	<p>In a letter dated 23/09/18 the Environmental Protection Authority(EPA) issued Bengalla Mining Company Pty Limited (BMC) with an 'Invitation to Show Cause' (Show Cause Letter). In the Show Cause Letter the EPA requested that BMC explain, in writing, why the EPA should not take regulatory action about an alleged breach of conditions O1.1, O2.1 and O3.1 of Environmental Protection Licence 6538 (Licence) said to have occurred between 12:50 and 13:20 hrs (the Period) on 19/09/18.</p> <p>The Show Cause Letter was accompanied by a number of photos and video taken during the Period on 19/09/18. The EPA alleged that the photos and video show "excessive dust emissions being generated from an excavator loading material into haul trucks" at the Bengalla Mine (Bengalla) premises.</p>	<p>In a letter dated 26/10/18 BMC provided a response to the EPA Show Cause Letter.</p> <p>In the letter (26/1018) BMC submitted that "the EPA should not take regulatory action because there is no evidence to conclude that the qualitative requirements of the relevant conditions (in their context) have been breached. During the Period BMC was operating with appropriate measures in place to deal with the prevailing conditions. The efficacy of those measures is exhibited by the fact that during the relevant times there was minimal dust emissions from the premises and all dust monitors read at levels below the maxima allowed under BMC's development consent."</p> <p>On 03/12/18 the EPA issued BMC with a 'Penalty Infringement Notice' (PIN) "...for allegedly failing to comply with condition O1.1 of the Licence and therefore allegedly contravening Section 64(1) of the Protection of the Environment Operations Act 1997 (the POEO Act)".</p> <p>In an email (24/12/18) Sparke Helmore Lawyers, on behalf of BMC, submitted to the EPA an application for review of the PIN. The application was also lodged online.</p>	Application under consideration.
22	22/09/2018	NSW Department of Planning and Environment	Air Quality (PM10)	<p>The Bengalla Mine (Bengalla) September 2018 PM10 monitoring results indicate a potential exceedance of the 24hr criteria of 50 µg/m3 at High Volume Air Sampler (HVAS) PM1 on Wybong Road (53 ug/m3) on 22/09/18.</p>	<p>In an email dated 11/10/18, Bengalla Mining Company Pty Limited (BMC) notified the Department of Planning and Environment (DPE) of the potential exceedance at PM1.</p> <p>BMC engaged Environmental Resources Management to investigate the elevated PM10 levels recorded on 22/09/18 and to determine Bengalla's contribution to the elevated levels.</p> <p>In an email dated 18/10/18, BMC provided DPE with the investigation report.</p> <p>The report estimated that Bengalla's operations contributed a maximum of 10 ug/m3 to the measurement at PM1 on 22/09/18.</p> <p>In an email dated 23/10/18 DPE notified BMC that the DPE "...has reviewed the incident report and accepts the presented findings, and will not be taking any further action at this time".</p>	Remedial action not required.
23	18/10/2018	N/A	Spill	<p>On 18/10/18 a valve at the maintenance lube bay coolant pump failed causing coolant to spray out. The majority of the coolant was contained within the bunded area with some coolant released to the surrounding concrete.</p>	<p>A technician in the area noticed the leak and stopped the flow. The coolant that escaped the bunded area was mopped up with adsorbent matting. The failed valve was replaced.</p>	Remedial action completed.
24	26/10/2018	N/A	Spill	<p>On 26/10/18 a coolant line blew off a fitting in the stores area releasing approximately 100L of coolant to the surrounding concrete. The spill was contained around the store compound waste drain which discharges to the oily water separator system.</p>	<p>The coolant pipe was isolated and the Infrastructure Supervisor was notified. Where possible the spill was mopped up with adsorbent matting. Coolant in the waste drain was captured in the oily water separator system.</p>	Remedial action completed.
25	1/11/2018	N/A	Spill	<p>On 01/11/18 a pressure test system failed, releasing coolant into the WS004 bunded area.</p>	<p>The coolant pump was shutdown and isolated. The faulty gauge was removed and the fitting was capped. The coolant was obtained within the bunded area and directed into the oily water separator system.</p>	Remedial action completed.
26	9/11/2018	NSW Department of Planning and Environment	Air Quality (PM10)	<p>The Bengalla Mine (Bengalla) November 2018 PM10 monitoring results indicate a potential exceedance of the 24hr criteria of 50 µg/m3 at High Volume Air Sampler (HVAS) PM4 on Wybong Road (51 ug/m3) on 09/11/18.</p>	<p>In an email dated 10/12/18, Bengalla Mining Company Pty Limited (BMC) notified the Department of Planning and Environment (DPE) of the potential exceedance at PM4.</p> <p>BMC engaged Environmental Resources Management to investigate the elevated PM10 levels recorded on 09/11/18 and to determine Bengalla's contribution to the elevated levels.</p> <p>In an email dated 18/12/18, BMC provided DPE with the investigation report.</p> <p>The report concludes that Bengalla did not contribute more than 50 ug/m3 to the elevated reading. Based on the prevailing wind directions it is estimated that Bengalla's operations (together with the Mt Pleasant recently completed construction area) contributed a maximum of 29 ug/m3 and the Bengalla dam construction area contributed a maximum of 26 ug/m3 to the measurement at monitor PM14.</p> <p>In an email dated 19/12/18 DPE notified BMC that the DPE "...has reviewed the reports and will not be taking any further action at this time".</p>	Remedial action not required.
27	27/11/2018	NSW Department of Planning and Environment	Air Quality (PM10)	<p>The Bengalla Mine (Bengalla) November 2018 PM10 monitoring results indicate a potential exceedance of the 24hr criteria of 50 µg/m3 at High Volume Air Sampler (HVAS) PM4 on Wybong Road (56 ug/m3) on 27/11/18.</p>	<p>In an email dated 10/12/18, Bengalla Mining Company Pty Limited (BMC) notified the NSW Department of Planning and Environment (DPE) of the potential exceedance at PM4.</p> <p>BMC engaged Environmental Resources Management to investigate the elevated PM10 levels recorded on 27/11/18 and to determine Bengalla's contribution to the elevated levels.</p> <p>In an email dated 18/12/18, BMC provided DPE with the investigation report.</p> <p>The report concludes that Bengalla did not contribute more than 50 ug/m3 to the elevated reading. Based on the prevailing wind directions it is estimated that Bengalla's operations (together with the Mt Pleasant recently completed construction area) contributed a maximum of 14 ug/m3 and the Bengalla dam construction area contributed a maximum of 29 ug/m3 to the measurement at PM14.</p> <p>In an email dated 19/12/18 DPE notified BMC that the DPE "...has reviewed the reports and will not be taking any further action at this time".</p>	Remedial action not required.
28	5/12/2018	NSW Dam Safety Committee; NSW Environmental Protection Authority	Water	<p>In December 2018, groundwater seepage occurred in the Bengalla Clean Water 1 (CW1) Dam.</p>	<p>Bengalla Mining Company Pty Limited (BMC) notified MACH Energy, the Environmental Protection Authority and the Dam Safety Committee.</p>	Investigation in progress.

29	9/12/2018	NSW Department of Planning and Environment	Air Quality (PM10)	<p>The Bengalla Mine (Bengalla) December 2018 PM10 monitoring results indicate a potential exceedance of the 24hr criteria of 50 µg/m3 at High Volume Air Sampler (HVAS) PM4 on Wybong Road (71 ug/m3) on 09/12/18.</p>	<p>In an email dated 08/01/19, Bengalla Mining Company Pty Limited (BMC) notified the Department of Planning and Environment (DPE) of the potential exceedance at PM4.</p> <p>BMC engaged Environmental Resources Management to investigate the elevated PM10 level recorded on 09/12/18 and to determine Bengalla's contribution to the elevated level.</p> <p>In an email dated 16/01/19, BMC provided DPE with the investigation report.</p> <p>The report concludes that Bengalla did not contribute more than 50 ug/m3 to the elevated reading. Based on the prevailing wind directions it is estimated that:</p> <p>(i) Bengalla's operations contributed a maximum of 28 ug/m3 to the elevated reading at PM4;</p> <p>(ii) wind erosion from the Bengalla dam construction area contributed a maximum of 13 ug/m3 to the elevated reading at PM4; and</p> <p>(iii) Bengalla's operations and wind erosion from the Bengalla dam construction area contributed a maximum of 15 ug/m3 to the elevated reading at PM3.</p> <p>In an email dated 22/01/19 DPE notified BMC that the DPE "...has reviewed your report and will not be taking and further action at this time."</p>	Remedial action not required.
30	17/12/2018	NSW Department of Planning and Environment	Air Quality (Annual Deposited Dust)	<p>The Bengalla Mine (Bengalla) December 2018 depositional dust monitoring results indicate a potential exceedance of the annual average maximum total deposited dust criteria of 4 g/m2/month at depositional dust gauge D20 (4.6 g/m2/month).</p>	<p>In an email dated 08/01/19, Bengalla Mining Company Pty Limited (BMC) notified the Department of Planning and Environment (DPE) of a potential exceedance at D20.</p> <p>BMC engaged Environmental Resources Management to investigate the elevated annual average maximum total deposited dust recorded at D20.</p> <p>Having regard for the expert's report, BMC has concluded that there has not been an exceedance of the annual average criteria at D20 because:</p> <p>a) the elevated measurement recorded at D20 was influenced by increased background levels of dust attributable to the extreme climate during 2018 (considered to be an extraordinary event);</p> <p>b) when the expert's estimated contribution of the effects of the drought is taken into account (0.6 g/m2/month), the measurement at D20 (4.0 g/m2/month) does not exceed the criteria.</p> <p>BMC submitted the expert's report to DPE on 07/02/19.</p>	Remedial action not required.
31	20/12/2018	NSW Department of Planning and Environment	Water	<p>Under water licence 20BL169798 for the 'Hunter Unregulated and Alluvial Water Source – Hunter Regulated River Alluvial Water Source' Bengalla Mining Company Pty Limited (BMC) is entitled to extract up to 125 ML in any 12 month period commencing 1 July each year and concluding 30 June the next year.</p> <p>BMC expects groundwater inflows to the Bengalla Mine (Bengalla) open cut to exceed the annual entitlement under 20BL169798.</p>	<p>In an email dated 20/12/18, BMC notified the Department of Planning and Environment (DPE) of the expected exceedance of water licence 20BL169798 allocation.</p> <p>BMC lodged an application with the then NSW Office of Water on 22/12/15 to increase the annual entitlement under 20BL169798 to 325 ML (the Application). The Application is yet to be determined.</p>	Awaiting response from NSW Office of Water.
32	27/12/2018	NSW Department of Planning and Environment	Air Quality (PM10)	<p>The Bengalla Mine (Bengalla) December 2018 PM10 monitoring results indicate a potential exceedance of the 24hr criteria of 50 µg/m3 at High Volume Air Sampler (HVAS) PM4 on Wybong Road (84 ug/m3) on 27/12/18.</p>	<p>In an email dated 08/01/19, Bengalla Mining Company Pty Limited (BMC) notified the Department of Planning and Environment (DPE) of the potential exceedance at PM4.</p> <p>BMC engaged Environmental Resources Management to investigate the elevated PM10 level recorded on 27/12/18 and to determine Bengalla's contribution to the elevated level.</p> <p>In an email dated 16/01/19, BMC provided DPE with the investigation report.</p> <p>The investigation report concludes that Bengalla did not contribute more than 50 ug/m3 to the elevated readings. Based on the prevailing wind directions it is estimated that:</p> <p>(i) Bengalla's operations contributed a maximum of 43 ug/m3 to the elevated reading at PM4; and</p> <p>(ii) Bengalla's operations and wind erosion from the Bengalla dam construction area contributed a maximum of 22 ug/m3 to the elevated reading at PM3.</p> <p>In an email dated 22/01/19 DPE notified BMC that the DPE "...has reviewed your report and will not be taking and further action at this time."</p>	Remedial action not required.
33	27/12/2018	NSW Department of Planning and Environment	Air Quality (Annual PM10)	<p>The Bengalla Mine (Bengalla) December 2018 PM10 monitoring results indicate a potential exceedance of the annual average criteria of 30 µg/m3 at High Volume Air Sampler (HVAS) PM1 (33.3 ug/m3) and PM4 (38.2 ug/m3).</p>	<p>In an email dated 08/01/19, Bengalla Mining Company Pty Limited (BMC) notified the Department of Planning and Environment (DPE) of the potential exceedances at PM1 and PM4 for 2018.</p> <p>BMC engaged Environmental Resources Management to investigate the elevated annual average PM10 levels.</p> <p>Having regard for the expert's report, BMC has concluded that there has not been an exceedance of the annual average criteria at the PM1 and PM4 because:</p> <p>a) when the expert's estimated contribution of the effects of the drought (considered to be an extraordinary event) is taken into account (5 ug/m3 for PM10), the measurement at PM1 (28 ug/m3) does not exceed the criteria;</p> <p>b) when the data is adjusted to account for the Bengalla contribution, the expert considers that PM4 (28 ug/m3) does not exceed the criteria.</p> <p>BMC submitted the expert's report to DPE on 07/02/19.</p>	Remedial action not required.

34	27/12/2018	NSW Department of Planning and Environment	Air Quality (Annual TSP)	<p>The Bengalla Mine (Bengalla) December 2018 Total Suspended Particulate (TSP) monitoring results indicate a potential exceedance of the annual average criteria of 90 µg/m³ at High Volume Air Sampler (HVAS) HV1 (94.3 ug/m³) HV2 (91.4 ug/m³) and HV6 (122 ug/m³).</p>	<p>In an email dated 08/01/19, Bengalla Mining Company Pty Limited (BMC) notified the Department of Planning and Environment (DPE) of the potential exceedances at HV1, HV2 and HV6 for 2018.</p> <p>BMC engaged Environmental Resources Management to investigate the elevated annual average TSP levels.</p> <p>Having regard for the expert's report, BMC has concluded that there has not been an exceedance of the annual average criteria at the HV1, HV2 and HV6 because:</p> <p>a) when the expert's estimated contribution of the effects of the drought (considered to be an extraordinary event) is taken into account (15 ug/m³ for TSP), the measurement at HV1 (79 ug/m³) and HV2 (76 ug/m²) do not exceeded the criteria;</p> <p>b) when the data is adjusted to account for the Bengalla contribution HV6 remains slightly above the criterion at 91 ug/m³ however;</p> <p>c) the nearest residence on privately-owned land to HV6 (which is not "air affected land" under SSD-5170) is located some distance away from HV6 and according to the air quality expert's advice it is unlikely that the applicable criteria was exceeded at that residence.</p> <p>BMC submitted the expert's report to DPE on 07/02/19.</p>	Remedial action not required.
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