Boral Cement Marulan POELA Act 2011 Monitoring Data October 2026 Report

BORAL CEMENT LIMITED
Marulan South Limestone Mine and Lime Plant
Hume Street,
Marulan South, NSW 2579
Environmental Protection Licence No. 944
Environmental Reporting | Boral Australia

Explanation of units of measure:

mg/m^3 = milligrams per cubic metre

g/m2/month = grams per square metre per month

$\mu g/m^3$ = micrograms per cubic metre

mg/L = milligrams per litre

Record updated on 15/10/2026

Compliance Summary: **The site is currently compliant with the Licence limits.**

1. Annual Stack Monitoring

Assessable Parameter (mg/m^3)	Licence Limit	2019-20	2020-21	2021-22	2022-23	2023-24 (Apr)
Emission Source: Kiln Stack (EPA identification Number: 11)						
Solid Particulates	**100 mg/m3**	86	39	8.4	43	64
Nitrogen Oxides	**2,000 mg/m3**	470	240	370	300	300
Emission Source: Hydrator Stack (EPA identification Number: 12)						
Solid Particles Particulates	**100 mg/m3**	9.7	<2.0	<2.0	<2.0	1.5
Assessable Parameter (mg/m^3)	**Licence Limit**	**2023-2024 (Nov)**	**2024-2025**			
Emission Source: Kiln Stack (EPA identification Number: 11)						
Solid Particulates	**100 mg/m3**	48	43			
Nitrogen Oxides	**2,000 mg/m3**	n/a	300			
Emission Source: Hydrator Stack (EPA identification Number: 12)						
Solid Particles Particulates	**100 mg/m3**	n/a	<2			

Compliance summary: Marulan plant is compliant with the Licence stack emission limits. The latest Annual Stack Monitoring was undertaken in August 2025.

2. Ambient air monitoring

2.1 Dust Deposition Gauges: Total Insoluble Matter (g/m^2·month)

This test measures the levels of the coarse dust (generated mostly from unsealed roads, raw material handling, open stockpiles, etc.). It is a measure of dust *nuisance* (dust on cars, washing, window panes) in the immediate vicinity of the source, as the heavy dust settles quickly and doesn't travel far. It is not an indication of potential health problems as it doesn't penetrate into the respiratory system due to a large size of dust particles.

Licence limit: Not specified.

The NSW State guideline of 4 g/m^2/month (presented as 12-month rolling average) was adopted as an internal indicator of site performance.

Month	Report received on	Dust Deposition Gauges – Insoluble solids (g/m2/month) 12-month rolling average		
		EPA ID No. 16 (Stores Paddock Hill)	EPA ID No. 18 (Freddy's Hill)	EPA ID No. 17 (Sub Station)
Jan 2019	20/02/19	13.81	5.45	
Feb 2019	18/03/19	12.86	5.16	
Mar 2019	02/05/19	13.37	4.94	
Apr 2019	29/05/19	13.43	4.41	
May 2019	29/06/19	14.40	4.38	
Jun 2019	26/7/19	14.71	4.52	
July 2019		14.49	4.57	
Aug 2019	20/9/19	14.56	4.61	
Sep 2019	24/10/19	12.15	5.07	
Oct 2019	28/11/19	13.02	4.83	
Nov 2019	23/12/19	11.59	4.38	
Dec 2019	29/1/20	11.66	4.61	
Jan 2020	28/2/20	13.25	4.27	
Feb 2020	31/3/20	13.29	5.85	
Mar 2020	29/4/20	12.75	5.67	
Apr 2020	27/5/20	12.78	5.87	
May 2020	26/6/20	11.94	6.23	
Jun 2020	26/6/20	11.56	7.23	
Jul 2020	27/8/20	11.31	6.85	
Aug 2020	27/9/20	10.93	6.55	
Sep 2020	27/10/20	10.73	7.22	
Oct 2020	30/11/20	9.53	7.56	
Nov 2020	27/1/21	11.07	7.76	
Dec 2020	10/2/21	10.34	7.32	
Jan 2021	17/3/21	8.33	6.87	
Feb 2021	21/4/21	7.47	6.54	
Mar 2021	28/4/21	7.34	6.57	

Month	Report received on	Dust Deposition Gauges – Insoluble solids (g/m2/month) 12-month rolling average		
		EPA ID No. 16 (Stores Paddock Hill)	EPA ID No. 18 (Freddy's Hill)	EPA ID No. 17 (Sub Station)
April 2021	21/6/21	7.28	6.56	
May 2021	30/6/21	6.91	6.43	
June 2021	11/8/21	6.94	5.71	
July 2021	7/9/21	6.88	5.59	
Aug 2021	22/9/21	6.88	5.53	
Sep 2021	12/11/21	6.93	5.16	
Oct 2021	26/11/21	6.97	5.06	
Nov 2021	22/12/21	4.40	6.75	
Dec 2021	25/1/22	4.09	6.61	
Jan 2022	1/3/22	3.72	6.72	
Feb 2022	4/4/22	3.74	5.90	
Mar 2022	19/5/22	3.67	5.57	
April 2022	11/6/22	3.42	6.05	
May 2022	7/7/22	3.39	5.92	
June 2022	29/7/22	3.27	5.59	
July 2022	2/9/22	3.17	5.54	
Aug 2022	28/9/22	2.88	5.40	
Sep 2022	17/11/22	2.75	4.77	
Oct 2022	15/12/22	2.63	4.52	
Nov 2022	09/02/23	2.42	2.66	
Dec 2022	10/02/23	2.29	2.56	
Jan 2023	06/03/23	2.37	2.40	1.41
Feb 2023	12/04/23	2.22	2.19	1.26
Mar 2023	08/05/23	2.46	2.52	1.94
April 2023	29/05/23	2.65	2.28	2.02
May 2023	22/06/23	2.59	2.19	1.96
June 2023	20/07/23	2.77	2.19	1.95
July 2023	22/08/23	2.86	2.15	2.09
Aug 2023	26/09/23	3.00	2.16	2.16
Sep 2023	30/10/23	2.98	1.97	2.26
Oct 2023	20/11/23	3.33	1.88	2.32
Nov 2023	08/01/23	3.60	1.84	2.36
Dec 2023	06/02/24	3.79	2.36	2.32
Jan 2024	27/02/24	3.85	2.56	2.32
Feb 2024	09/02/24	4.01	2.69	2.29
Mar 2024	01/05/24	3.72	3.66	1.59
Apr 2024	24/05/2024	3.38	3.30	1.59
May 2024	17/07/2024	3.29	3.29	1.51
Jun 2024	9/08/2024	2.99	3.34	1.48

Month	Report received on	Dust Deposition Gauges – Insoluble solids (g/m2/month) 12-month rolling average		
		EPA ID No. 16 (Stores Paddock Hill)	EPA ID No. 18 (Freddy's Hill)	EPA ID No. 17 (Sub Station)
Jul 2024	28/08/2024	2.85	1.07	1.27
Aug 2024	19/09/2024	2.9	1.65	1.24
Sep 2024	01/11/2024	3.08	1.16	1.12
Oct 2024	27/11/2024	2.81	2.43	1.27
Nov 2024	-	-	-	-
Dec 2024	05/02/2024	2.78	2.46	1.22
Jan 2025	14/03/2025	2.52	0.77	1.07
Feb 2025	02/04/2025	2.54	1.52	1.07
Mar 2025	29/04/2025	2.47	3.64	1.18
April 2025	26/05/2025	2.6	3.42	1.33
May 2025	26/06/2025	2.64	2.91	1.2
Jun 2025	23/07/2025	3.19	2.57	1.38
Jul 2025	4/9/2025	3.44	2.94	1.6
Aug 2025	8/10/25	3.46	3.87	1.63
Sep 2025	28/10/2025	3.47	3.81	1.65
Oct 2025	18/11/2025	3.38	3.85	2.09
Nov 2025	13/01/2026	3.99	4.04	2.82
Dec 2025	5/02/2026	4.2	3.71	3.06
Jan 2026	09/03/2026	4.79	3.67	3.37
Feb 2026	04/05/2026	4.79	3.66	3.27
Mar 2026	25/05/2026	4.73	3.45	3.24
Apr 2026	29/05/2026	4.71	3.18	3.06
May 2026	29/06/2026	4.81	3.08	3.06
June 2026	-	-	-	-
July 2026	04/09/2026	2.89	0.65	0.11
Aug 2026	14/10/2026	7.94	2.11	1.04

Compliance Summary: The site does not have a compliance limit for dust deposition. Elevated results at the two licenced points is generally reflective of their proximity to operations or activities in the surrounding paddocks. The nearest residence monitoring point is Boral owned.

Notes:

The stores paddock hill gauge is located on the limestone premises and is used as an indicator to manage dust from operations. Further analysis of the dust has revealed that the majority of material was organic and likely to have been from windblown paddock grasses and bird depositions.

15/2/2020: Nearest Residence monitoring station damaged in extreme weather. No sample was taken for that month. Reading given in any month is an average of the prior 12 months where data available.

The results for November 2024 are not available due to an internal error.

The results for June 2026 are not available due to a laboratory issue.

Building something great

2.2 High Volume Air Sampling: PM10 dust fraction (µg/m^3 24 hrs)

This test measures the levels of the fine dust suspended in the air (generated mostly from stack emissions). It is a measure of potential *health effects* (irritation of the respiratory tract) as the small particles can penetrate into the airways and the lungs. Fine dust can persist in the atmosphere for days or even months before it settles and can travel some distance.

Annual Criteria is 25 µg/m^3 and twenty-four-hour criteria is 50 µg/m^3

Sampling date	31/08/23	06/09/23	12/09/23	18/09/23	24/09/23	30/09/23	06/10/23	12/10/23
Report date	27/08/23	27/08/23	28/10/23	28/10/23	28/10/23	28/10/23	20/11/23	20/11/23
PM10 (µg/m3)	2.20	4.06	9.47	41.67	13.69	9.23	9.84	31.98
Sampling date	18/10/23	24/10/23	30/10/23	5/11/23	11/11/23	17/11/23	23/11/23	29/11/23
Report date	20/11/23	20/11/23	20/11/23	15/12/23	15/12/23	15/12/23	15/12/23	15/12/23
PM10 (µg/m3)	9.60	32.06	45.49	19.42	23.01	24.34	14.20	12.37
Sampling date	05/12/23	11/12/23	17/12/23	23/12/23	29/12/23	04/01/24	10/01/24	16/01/24
Report date	15/12/23	25/01/24	25/01/24	25/01/24	25/01/24	25/01/24	21/02/24	21/02/24
PM10 (µg/m3)	26.28	27.04	26.26	16.08	10.91	12.60	20.92	3.67
Sampling date	22/01/24	28/01/24	03/02/24	09/02/24	15/02/24	21/02/24	27/02/24	04/03/24
Report date	21/02/24	21/02/24	15/03/24	15/03/24	15/03/24	15/03/24	15/03/24	15/03/24
PM10 (µg/m3)	22.33	21.63	30.84	21.05	12.50	8.99	14.54	30.23
Sampling date	10/03/24	16/03/24	22/03/24	28/03/24	03/04/24	09/04/24	15/04/24	21/04/24
Report date	11/04/24	11/04/24	11/04/24	11/04/24	11/04/24	08/05/24	08/05/24	08/05/24
PM10 (µg/m3)	18.12	14.09	15.63	33.12	12.48	7.06	16.86	17.68
Sampling date	26/04/24	30/04/24	03/05/24	09/05/24	15/05/24	21/05/24	27/05/24	02/06/24
Report date	08/05/24	08/05/24	24/06/24	24/06/24	24/06/24	24/06/24	24/06/24	24/06/24
PM10 (µg/m3)	16.06	12.95	3.01	3.28	12.27	8.14	19.01	0.96
Sampling date	08/06/24	14/06/24	20/06/24	26/06/24	02/07/24	08/07/24	14/07/24	20/07/24
Report date	31/07/24	31/07/24	31/07/24	31/07/24	31/07/24	31/07/24	09/08/24	09/08/24
PM10 (µg/m3)	5.06	8.56	4.20	8.95	4.78	13.19	8.76	6.18
Sampling date	26/07/24	01/08/24	07/08/24	13/08/24	19/08/24	25/08/24	31/08/24	06/09/24
Report date	09/08/24	09/08/24	17/08/24	17/08/24	17/08/24	17/08/24	17/08/24	4/10/24
PM10 (µg/m3)	1.17	14.08	14.47	8.56	8.76	8.90	9.82	19.99
Sampling date	12/09/24	18/09/24	24/09/24	30/09/24	6/10/24	12/10/24	18/10/24	24/10/24
Report date	04/10/24	04/10/24	04/10/24	04/10/24	19/11/24	19/11/24	19/11/24	19/11/24
PM10 (µg/m3)	12.45	22.68	34.17	17.60	8.97	20.26	39.45	30.41
Sampling date	30/10/24	5/11/24	11/11/24	17/11/24	23/11/24	29/11/24	11/12/24	17/12/24
Report date	17/08/24	12/03/24	12/03/24	12/03/24	12/03/24	12/03/24	24/0125	24/0125
PM10 (µg/m3)	33.90	27.98	26.24	17.75	38.85	13.48	22.26	45.89
Sampling date	23/12/24	29/12/24	04/01/25	10/01/25	16/01/25	22/01/25	28/01/25	03/02/25
Report date	24/01/25	24/0125	05/03/25	05/03/25	05/03/25	05/03/25	05/03/25	05/03/25
PM10 (µg/m3)	29.96	21.19	24.08	12.18	13.40	32.88	27.77	59.90

Sampling date	09/02/25	15/02/25	21/02/25	27/02/25	05/03/25	11/3/25	17/3/25	23/03/25
Report date	05/03/25	20/03/25	20/03/25	20/03/25	17/04/25	17/04/25	17/04/25	17/04/25
PM10 (µg/m3)	6.07	14.85	20.34	28.46	19.87	15.45	14.93	4.41
Sampling date	29/03/25	04/04/25	10/04/25	16/04/25	22/04/25	28/04/25	04/05/25	10/05/25
Report date	17/04/25	17/04/25	15/05/25	15/05/25	15/05/25	15/05/25	02/07/25	02/07/25
PM10 (µg/m3)	2.04	18.60	52.53	32.75	7.60	18.65	15.08	15.86
Sampling date	16/05/25	22/05/25	28/05/25	03/06/25	09/06/25	15/06/25	21/06/25	27/06/25
Report date	02/07/25	02/07/25	02/07/25	02/07/25	02/07/25	02/07/25	02/07/25	08/07/25
PM10(µg/m3)	15.74	15.53	15.37	15.35	0.89	0.68	5.69	4.53
Sampling date	03/07/25	09/07/25	15/07/25	21/07/25	27/07/25	02/08/25	14/08/25	20/08/25
Report date	15/08/25	15/08/25	15/08/25	15/07/25	15/07/25	15/07/25	15/09/25	15/09/25
PM10(µg/m3)	0.62	19.47	12.62	31.22	3.34	2.66	4.08	3.66
Sampling date	26/08/25	1/09/25	7/09/25	13/09/25	19/9/25	25/09/25	1/10/25	7/10/25
Report date	15/09/25	15/10/25	15/10/25	15/09/25	15/10/25	15/10/25	15/11/25	15/11/25
PM10(µg/m3)	17.56	4.16	10.6	4.36	5.69	7.16	8.58	10.42
Sampling date	13/10/25	19/10/25	25/10/25	31/10/25	6/11/25	12/11/25	18/11/25	24/11/25
Report date	15/11/25	15/11/25	15/11/25	15/11/25	15/12/25	15/12/25	15/12/25	15/12/25
PM10(µg/m3)	17.64	10.19	11.10	36.52	14.96	6.54	8.98	9.27
Sampling date	30/11/25	18/12/25	24/12/25	30/12/25	01/01/26	05/01/26	08/01/26	11/01/26
Report date	28/01/26	28/01/26	28/01/26	28/01/26	28/01/26	28/01/26	26/02/26	26/02/26
PM10(µg/m3)	17.04	31.85	16.37	24.50	9.30	11.51	34.46	41.65
Sampling date	17/01/26	20/01/26	27/01/26	29/01/26	4/02/26	10/02/26	16/02/26	22/02/26
Report date	26/02/26	26/02/26	26/02/26	26/02/26	26/02/26	20/03/26	20/03/26	20/03/26
PM10(µg/m3)	6.61	17.89	56.08	100.72	39.28	18.21	13.64	25.70
Sampling date	28/02/26	06/03/26	12/03/26	18/03/26	24/03/26	30/03/26	05/04/26	11/04/26
Report date	20/03/26	20/03/26	14/05/26	14/05/26	14/05/26	14/05/26	19/06/26	19/06/26
PM10(µg/m3)	13.42	14.82	28.16	12.16	28.76	15.89	10.60	11.05
Sampling date	17/04/26	23/04/26	05/05/2026	11/05/2026	17/05/2026	23/05/20256	29/05/2026	04/06/26
Report date	19/06/26	19/06/26	26/06/2026	26/06/2026	26/06/2026	26/06/2026	26/06/2026	30/07/2026
PM10(µg/m3)	21.55	18.14	3.32	7.48	14.98	5.34	2.69	3.41
Sampling date	10/06/2026	16/06/2026	22/06/2026	28/06/2026	04/07/2026	10/07/2026	16/07/2026	22/07/2026
Report date	30/07/2026	30/07/2026	30/07/2026	30/07/2026	27/07/2026	27/07/2026	27/07/2026	27/07/2026
PM10(µg/m3)	8.53	6.21	1.29	5.91	0.88	10.58	23.24	7.73
Sampling date	28/07/2026	03/08/2026	09/08/2026	15/08/2026	21/08/2026	27/08/2026	02/09/2026	08/09/2026
Report date	21/09/2026	21/09/2026	21/09/2026	21/09/2026	21/09/2026	21/09/2026	09/10/2026	09/10/2026
PM10(µg/m3)	4.22	8.05	4.33	11.79	6.90	13.24	10.18	18.57
Sampling date	14/09/2026	20/09/2026	26/09/2026					
Report date	09/10/2026	09/10/2026	09/10/2026					
PM10(µg/m3)	20.99	10.90	18.71					

Compliance Summary: The plant does not have a Licence limit for air-suspended particulate. Sampling is programmed to run every six days, however on occasion the sampler can fail to run which is beyond the control of the site. Where reasonably practicable addition sample runs are undertaken to make up any missed samples. Elevated levels against guidelines are typically the result of adverse events such as dust storms and bushfires.

Notes:

- February 17/02/19 till 23/02/19 a large dust storm coming from a south westerly direction during the sampling period.
- March 2019 first half of the month was affected by dust storms and drier conditions.
- January 2021 Breakdown of Hi Volume PM10 monitoring station. First sample with new unit 21/5/2021. Samples for PM2.5 and TSP taken during this period.
- 31/5/21 Machine failed to operate. Frequency to be increased to make up average samples to in every 6 days.
- 17/12/24 PM10 exceeded 25µg/m3 in 24 hours, an investigation concluded that this was an erroneous result as the PM2.5 readings for this day were within limits.
- 10/04/25 exceedance was reported and found to be due to mowing next to the air filters while sampling. An additional sample will be done to replace this result.
- 27/01/26 and 29/01/26 PM10 samples exceeded 50 µg/m3. An investigation concluded that due to wind direction and readings from the adjacent real Time dust monitor that this was not due to mining operations.

2.3 High Volume Air Sampling: PM2.5 dust fraction (ug/m^3 24 hrs)

Annual criteria is 8 uq/m^3 and twenty-four hour criteria is 25 uq/m^3

Sampling date	14/07/23	20/07/23	26/07/23	01/08/23	07/08/23	13/08/23	19/08/23	25/09/23
Report date	16/07/23	16/07/23	16/07/23	16/07/23	27/08/23	27/08/23	27/08/23	27/08/23
PM2.5 (µg/m3)	1.44	1.62	8.00	1.16	0.40	0.96	0.21	1.64
Sampling date	31/08/23	06/09/23	12/09/23	18/09/23	24/09/23	30/09/23	06/10/23	12/10/23
Report date	27/08/23	27/08/23	28/10/23	28/10/23	28/10/23	28/10/23	20/11/23	20/11/23
PM2.5 (µg/m3)	0.76	3.03	5.77	19.87	9.40	5.68	5.82	17.25
Sampling date	18/10/23	24/10/23	30/10/23	5/11/23	11/11/23	17/11/23	23/11/23	29/11/23
Report date	20/11/23	20/11/23	20/11/23	15/12/23	15/12/23	15/12/23	15/12/23	15/12/23
PM2.5 (µg/m3)	6.33	18.69	34.43	6.89	15.36	11.77	6.72	6.27
Sampling date	05/12/23	11/12/23	17/12/23	23/12/23	29/12/23	04/01/24	10/01/24	16/01/24
Report date	15/12/23	25/01/24	25/01/24	25/01/24	25/01/24	25/01/24	21/02/24	21/02/24
PM2.5 (µg/m3)	14.98	14.26	10.95	7.86	4.56	5.95	22.56	10.13
Sampling date	22/01/24	28/01/24	03/02/24	09/02/24	15/02/24	21/02/24	27/02/24	04/03/24
Report date	21/02/24	21/02/24	15/03/24	15/03/24	15/03/24	15/03/24	15/03/24	15/03/24
PM2.5 (µg/m3)	16.89	15.90	19.54	12.94	5.21	4.61	5.97	17.20
Sampling date	10/03/24	16/03/24	22/03/24	28/03/24	03/04/24	09/04/24	15/04/24	21/04/24
Report date	19/04/24	19/04/24	19/04/24	19/04/24	19/04/24	08/05/24	19/04/24	19/04/24
PM2.5(µg/m3)	11.28	9.28	12.82	11.70	14.52	5.65	12.91	21.98
Sampling date	27/04/24	30/04/24	03/05/24	09/05/24	15/05/24	21/05/24	27/05/24	02/06/24
Report date	19/04/24	19/04/24	24/05/24	24/05/24	24/05/24	24/05/24	24/05/24	24/05/24
PM2.5(µg/m3)	10.84	5.21	1.58	0.62	3.98	3.06	14.96	1.30
Sampling date	08/06/24	14/06/24	20/06/24	26/06/24	02/07/24	08/07/24	14/07/24	20/07/24
Report date	31/07/24	31/07/24	31/07/24	31/07/24	31/07/24	31/07/24	22/08/24	22/08/24
PM2.5(µg/m3)	6.19	5.23	7.88	5.60	2.29	8.05	5.82	8.71
Sampling date	26/07/24	01/08/24	07/08/24	13/08/24	19/08/24	25/08/24	31/08/24	06/09/24
Report date	22/08/24	22/08/24	17/09/24	17/09/24	17/09/24	17/09/24	17/09/24	04/10/24
PM2.5(µg/m3)	5.68	7.39	12.31	5.36	0.55	6.25	8.20	23.73
Sampling date	12/09/24	18/09/24	24/09/24	30/09/24	6/10/24	12/10/24	18/10/24	24/10/24
Report date	04/10/24	04/10/24	04/10/24	04/10/24	19/11/24	19/11/24	19/11/24	19/11/24
PM2.5(µg/m3)	3.88	17.21	24.98	12.18	6.52	10.01	21.58	16.14
Sampling date	30/10/24	5/11/24	11/11/24	17/11/24	23/11/24	29/11/24	11/12/24	17/12/24
Report date	17/08/24	12/03/24	12/03/24	12/03/24	12/03/24	12/03/24	24/0125	24/01/25
PM2.5(µg/m3)	22.29	10.67	10.06	14.46	26.08	7.48	13.24	84.33
Sampling date	23/12/24	29/12/24	04/01/25	10/01/25	16/01/25	22/01/25	28/01/25	03/02/25
Report date	24/01/25	24/01/25	04/03/25	04/03/25	04/03/25	04/03/25	04/03/25	04/03/25
PM2.5(µg/m3)	26.66	15.87	18.26	7.51	5.54	23.81	19.99	30.21

Sampling date	09/02/25	15/02/25	21/02/25	27/02/25	05/03/25	11/03/25	17/03/25	23/03/25
Report date	04/03/25	20/03/25	20/03/25	20/03/25	17/04/25	17/04/25	17/04/25	17/04/25
PM2.5(µg/m3)	3.22	6.99	4.48	12.03	2.73	3.21	7.51	3.85
Sampling date	29/03/25	04/04/25	10/04/25	16/04/25	22/04/25	28/04/25	04/05/25	10/05/25
Report date	16/05/25	16/05/25	16/05/25	16/05/25	16/05/25	16/05/25	16/05/25	02/07/25
PM2.5(µg/m3)	2.04	4.77	38.07	14.18	5.37	9.23	9.71	0.68
Sampling date	16/05/25	22/05/25	28/05/25	3/06/25	9/06/25	15/06/25	21/06/25	27/06/25
Report date	02/07/25	02/07/25	02/07/25	02/07/25	02/07/25	02/07/25	02/07/25	08/07/25
PM2.5(µg/m3)	3.26	0.28	2.63	9.12	1.17	0.27	2.68	1.67
Sampling date	03/07/25	09/07/25	15/07/25	21/07/25	27/07/25	02/08/25	8/08/25	14/08/25
Report date	15/08/25	15/08/25	15/08/25	15/08/25	15/08/25	15/09/25	15/09/25	15/09/25
PM2.5(µg/m3)	0.35	7.84	2.39	9.54	1.74	2.32	3.85	2.25
Sampling date	20/08/25	26/08/25	1/09/25	7/9/25	13/9/25	19/9/25	25/9/25	1/10/25
Report date	15/09/25	15/09/25	15/10/25	15/10/25	15/10/25	15/10/25	15/10/25	15/11/25
PM2.5(µg/m3)	0.34	14.56	2.53	5.71	5.66	3.41	5.51	11.82
Sampling date	7/10/25	13/10/25	19/10/25	25/10/25	31/10/25	6/11/25	12/11/25	18/11/25
Report date	15/11/25	15/11/25	15/11/25	15/11/25	15/11/25	15/12/25	15/12/25	15/12/25
PM2.5(µg/m3)	8.14	8.49	7.08	6.27	11.69	13.98	5.56	10.03
Sampling date	24/11/25	30/11/25	18/12/25	24/12/25	30/12/25	01/01/26	05/01/26	08/01/26
Report date	15/12/25	28/01/26	28/01/26	28/01/26	28/01/26	28/01/26	28/01/26	26/02/26
PM2.5(µg/m3)	4.42	14.00	30.00	11.18	20.80	5.52	9.38	34.85
Sampling date	11/01/26	17/01/26	20/01/26	27/01/26	29/01/26	4/02/26	10/02/26	16/02/26
Report date	26/02/26	26/02/26	26/02/26	26/02/26	26/02/26	26/02/26	20/03/26	20/03/26
PM2.5(µg/m3)	23.02	4.78	8.32	38.99	34.88	24.96	10.48	5.23
Sampling date	22/02/26	28/02/26	06/03/28	12/03/26	18/03/26	24/03/26	30/03/26	05/04/26
Report date	20/03/26	20/03/26	20/03/26	14/05/26	14/05/26	14/05/26	14/05/26	19/06/26
PM2.5(µg/m3)	9.50	4.45	9.79	12.34	3.93	5.30	6.34	23.81
Sampling date	11/04/26	17/04/26	23/04/26	05/05/2026	11/05/2026	17/05/2026	23/05/20256	29/05/2026
Report date	19/06/26	19/06/26	19/06/26	26/06/2026	26/06/2026	26/06/2026	26/06/2026	26/06/2026
PM2.5(µg/m3)	51.85	38.10	6.02	1.99	3.01	6.45	2	1.2
Sampling date	04/06/2026	10/06/2026	16/06/2026	04/07/2026	10/07/2026	14/07/2026	16/07/2026	22/07/2026
Report date	30/07/2026	30/07/2026	30/07/2026	27/07/2026	27/07/2026	27/07/2026	27/07/2026	27/07/2026
PM2.5(µg/m3)	3.14	2.83	1.16	1.72	9.29	0.55	6.61	1.43
Sampling date	28/07/2026	03/08/2026	09/08/2026	15/08/2026	21/08/2026	27/08/2026	04/09/2026	08/09/2026
Report date	21/09/2026	21/09/2026	21/09/2026	21/09/2026	21/09/2026	21/09/2026	09/10/2026	09/10/2026
PM2.5(µg/m3)	1.65	5.81	3.58	9.12	6.65	6.41	3.76	9.66
Sampling date	14/09/2026	20/09/2026	26/09/2026					
Report date	09/10/2026	09/10/2026	09/10/2026					
PM2.5(µg/m3)	12.11	9.53	13.89					

- 10/04/25 exceedance was reported due to mowing next to the air filters. An additional sample will be done to replace this result.
- 18/12/25 PM2.5 sample exceeded 25 µg/m3. An investigation concluded that this was an erroneous result and not due to mining operations
- 08/01/26, 27/01/26 & 29/01/26 PM2.5 samples exceeded 25 µg/m3. An investigation concluded that the result on the 8th was an erroneous result and that on the 27th and 29th that due to wind direction and readings from the adjacent real Time dust monitor that this was not due to mining operations.
- 11/04/26, 17/04/26 samples exceeded 25 µg/m3. An investigation concluded that the results were erroneous as it was above measured PM10 values during the same period. This was later identified as a machine malfunction.

2.4 High Volume Air Sampling: TSP dust fraction (ug/m^3 24 hrs)

Annual criteria is 90 uq/m^3. All in compliance for TSP.

Sampling date	14/07/23	20/07/23	26/07/23	01/08/23	07/08/23	13/08/23	19/08/23	25/09/23
Report date	16/07/23	16/07/23	16/07/23	16/07/23	27/08/23	27/08/23	27/08/23	27/08/23
TSP (µg/m3)	13.03	20.85	11.88	6.03	5.58	2.99	0.12	35.68
Sampling date	31/08/23	06/09/23	12/09/23	18/09/23	24/09/23	30/09/23	06/10/23	12/10/23
Report date	27/08/23	27/08/23	28/10/23	28/10/23	28/10/23	28/10/23	20/11/23	20/11/23
TSP (µg/m3)	6.27	11.03	18.94	23.19	19.28	13.79	13.79	78.47
Sampling date	18/10/23	24/10/23	30/10/23	5/11/23	11/11/23	17/11/23	23/11/23	29/11/23
Report date	20/11/23	20/11/23	20/11/23	15/12/23	15/12/23	15/12/23	15/12/23	15/12/23
TSP (µg/m3)	25.52	3.73	5.93	5.08	6.91	6.92	5.31	8.36
Sampling date	05/12/23	11/12/23	17/12/23	23/12/23	29/12/23	04/01/24	10/01/24	16/01/24
Report date	15/12/23	25/01/24	25/01/24	25/01/24	25/01/24	25/01/24	21/02/24	21/02/24
TSP (µg/m3)	4.13	1.86	3.02	3.61	23.23	18.40	19.97	28.51
Sampling date	22/01/24	28/01/24	03/02/24	09/02/24	15/02/24	21/02/24	27/02/24	04/03/24
Report date	21/02/24	21/02/24	15/03/24	15/03/24	15/03/24	15/03/24	15/03/24	15/03/24
TSP (µg/m3)	11.62	7.82	64.73	48.89	21.92	20.32	46.27	86.49
Sampling date	10/03/24	16/03/24	23/03/24	28/03/24	03/04/24	09/04/24	15/04/24	21/04/24
Report date	11/04/24	11/04/24	11/04/24	11/04/24	11/04/24	08/05/24	08/05/24	08/05/24
TSP (µg/m3)	47.77	37.92	51.78	62.36	46.25	13.57	33.89	56.77
Sampling date	30/04/24	27/04/24	03/05/24	09/05/24	15/05/24	21/05/24	29/05/24	02/06/24
Report date	08/05/24	08/05/24	24/06/24	24/06/24	24/06/24	24/06/24	24/06/24	24/06/24
TSP (µg/m3)	25.00	35.47	8.30	5.82	20.39	16.31	23.21	7.59
Sampling date	08/06/24	14/06/24	20/06/24	26/06/24	02/07/24	08/07/24	14/07/24	20/07/24
Report date	31/07/24	31/07/24	31/07/24	31/07/24	31/07/24	31/07/24	22/08/24	22/08/24
TSP (µg/m3)	5.18	14.73	11.53	17.91	2.91	21.98	8.56	16.86
Sampling date	26/07/24	01/08/24	07/08/24	13/08/24	19/08/24	25/08/24	31/08/24	06/09/24
Report date	22/08/24	22/08/24	17/09/24	17/09/24	17/09/24	17/09/24	17/09/24	4/10/24
TSP (µg/m3)	9.60	24.45	34.69	19.20	27.84	22.10	19.10	33.24
Sampling date	18/09/24	20/09/24	24/09/24	30/09/24	19/11/24	19/11/24	19/11/24	19/11/24
Report date	4/10/24	4/10/24	4/10/24	4/10/24	6/10/24	13/10/24	18/10/24	24/10/24
TSP (µg/m3)	26.90	13.61	49.76	29.26	19.07	51.17	73.88	61.78
Sampling date	19/11/24	5/11/24	11/11/24	17/11/24	23/11/24	29/11/24	11/12/24	17/12/24
Report date	30/10/24	12/03/24	12/03/24	12/03/24	12/03/24	12/03/24	24/01/25	24/01/25
TSP (µg/m3)	59.58	48.23	45.54	34.89	50.05	17.42	35.81	68.99
Sampling date	23/12/24	29/12/24	04/01/25	10/01/25	16/01/25	22/01/25	28/01/25	03/02/25
Report date	24/01/25	24/01/25	05/03/25	05/03/25	05/03/25	05/03/25	05/03/25	05/03/25
TSP (µg/m3)	41.45	26.51	33.07	22.10	22.26	49.48	45.43	101.19
Sampling date	09/02/25	15/02/25	21/02/25	27/02/25	06/03/25	11/03/25	17/03/25	24/03/25

Report date	05/03/25	20/03/25	20/03/25	20/03/25	17/04/25	17/04/25	17/04/25	17/04/25
TSP (µg/m3)	25.64	26.51	49.15	64.30	32.73	26.50	57.71	66.26
Sampling date	29/03/25	07/04/25	10/04/25	16/04/25	22/04/25	28/04/25	04/05/25	10/05/25
Report date	17/04/25	17/04/25	14/05/25	14/05/25	14/05/25	14/05/25	14/05/25	08/07/25
TSP (µg/m3)	9.43	59.05	83.02	58.69	27.48	31.08	26.79	35.46
Sampling date	16/05/25	22/05/25	21/02/25	28/05/25	3/06/25	9/06/25	15/06/25	21/06/25
Report date	08/07/25	08/07/25	08/07/25	08/07/25	08/07/25	08/07/25	08/07/25	08/07/25
TSP (µg/m3)	25.64	26.51	49.15	64.30	32.73	26.50	57.71	66.26
Sampling date	27/06/25	03/07/25	11/07/25	15/07/25	21/07/25	27/07/25	02/08/25	08/08/25
Report date	08/07/25	15/08/25	15/08/25	15/08/25	15/08/25	15/08/25	15/07/25	15/09/25
TSP (µg/m3)	25.64	0.72	2.44	18.73	58.84	9.04	3.84	26.58
Sampling date	14/08/25	20/08/25	1/09/25	7/09/25	13/09/25	19/09/25	25/09/25	1/10/25
Report date	15/09/25	15/09/25	15/10/25	15/10/25	15/10/25	15/10/25	15/10/25	15/11/25
TSP (µg/m3)	7.51	9.96	11.41	20.56	15.75	11.06	18.9	19.1
Sampling date	7/10/25	13/10/25	19/10/25	25/10/25	31/10/25	6/11/25	12/11/25	18/11/25
Report date	15/11/25	15/11/25	15/11/25	15/11/25	15/11/25	15/12/25	15/12/25	15/12/25
TSP (µg/m3)	24.54	43.32	35.58	19.4	86.01	31.77	17.64	27.02
Sampling date	24/11/25	30/11/25	18/12/25	24/12/25	30/12/25	01/01/26	05/01/26	08/01/26
Report date	15/12/25	28/01/26	28/01/26	28/01/26	28/01/26	28/01/26	28/01/26	26/02/26
TSP (µg/m3)	29.6	34.41	53.45	30.16	50.20	21.33	24.50	71.29
Sampling date	11/01/26	20/01/26	23/01/26	27/01/26	06/02/26	10/02/26	16/02/26	22/02/26
Report date	26/02/26	26/02/26	26/02/26	26/02/26	26/02/26	20/03/26	20/03/26	20/03/26
TSP (µg/m3)	61.17	34.83	61.90	72.78	101.18	32.44	34.44	58.67
Sampling date	28/02/26	06/03/28	12/03/26	18/03/26	24/03/26	30/03/26	05/04/26	11/04/26
Report date	20/03/26	20/03/26	14/05/26	14/05/26	14/05/26	14/05/26	19/06/26	19/06/26
TSP (µg/m3)	30.28	27.12	47.66	27.53	53.51	39.36	26.52	18.86
Sampling date	17/04/26	23/04/26	29/04/26	05/05/2026	11/05/2026	17/05/2026	23/05/20256	29/05/2026
Report date	19/06/26	19/06/26	19/06/26	26/06/2026	26/06/2026	26/06/2026	26/06/2026	26/06/2026
TSP (µg/m3)	39.32	37.38	36.38	10.34	18.85	31.76	16.61	3.22
Sampling date	04/06/2026	11/06/2026	16/06/2026	22/06/2026	28/06/2026	04/07/2026	10/07/2026	16/07/2026
Report date	30/07/2026	30/07/2026	30/07/2026	30/07/2026	30/07/2026	27/07/2026	27/07/2026	27/07/2026
TSP (µg/m3)	5.71	14.05	11.82	6.00	17.13	2.17	16.64	61.01
Sampling date	22/07/2026	28/07/2026	03/08/2026	09/08/2026	15/08/2026	24/08/2026	27/08/2026	04/09/2026
Report date	27/07/2026	21/09/2026	21/09/2026	21/09/2026	21/09/2026	21/09/2026	21/09/2026	09/10/2026
TSP (µg/m3)	5.57	11.58	20.76	12.61	17.49	27.44	25.56	15.12
Sampling date	08/09/2026	14/09/2026	20/09/2026	26/09/2026				
Report date	09/10/2026	09/10/2026	09/10/2026	09/10/2026				
TSP (µg/m3)	39.38	40.17	23.91	42.40				

3 Blast monitoring:

Limits:

* The overpressure level from blasting operations at the premises must not exceed 120dB (Lin Peak) at any time

* The overpressure level from blasting operations at the premises must not exceed 115dB (Lin Peak) for more than 5% of the total number of blasts over each reporting period

* Ground vibration peak particle vector from the blasting operations at the premises must not exceed 10mm/sec at any time

* Ground vibration peak particle vector from the blasting operations at the premises must not exceed 5mm/sec for more than 5% of the total number of blasts over each reporting period

* Blast monitoring overpressure and ground vibration is measured at the 2 locations. – 643 Marulan South Rd and the Substation.

Date	Time	Airblast Overpressure Substation	Ground Vibration Substation	Airblast Overpressure 643 Marulan South Rd	Ground Vibration 643 Marulan South Rd	Compliant
		dB (Lin Peak)	*(mm/s)*	*dB (Lin Peak)*	*(mm/s)*	
01-Jun-23	1.18PM	108.9	0.13	100.8	0.22	Yes
05-Jun-23	10.43AM	104.6	0.24	100	0.22	Yes
08-Jun-23	12.28PM	88.6	0.12	NO TRIGGER	NO TRIGGER	Yes
14-Jun-23	1.33PM	108.6	0.14	92.6	0.19	Yes
15-Jun-23	4.06PM	97.4	0.13	97	0.45	Yes
20-Jun-23	11.46AM	96.6	0.14	99.6	0.17	Yes
22-Jun-23	4.40PM	88.6	0.12	91.1	0.17	Yes
26-Jun-23	1.10PM	118.5	0.24	119.1	0.28	Yes
29-Jun-23	2.00PM	102.6	0.13	94.9	0.17	Yes
03-Jul-23	11.12AM	99.5	0.21	98.1	0.19	Yes
06-Jul-23	3.32PM	97.4	0.13	No trigger	No trigger	Yes
10-Jul-23	1.15PM	108	0.13	104.9	0.28	Yes
12-Jul-23	11.13AM	100.7	0.13	No trigger	No trigger	Yes
13-Jul-23	11.26AM	102.2	0.13	No trigger	No trigger	Yes
19-Jul-23	2.35PM	104.9	0.25	96.9	0.23	Yes
20-Jul-23	1.40PM	105.2	0.19	96.2	0.17	Yes
24-Jul-23	2.33PM	90.6	0.13	94.3	0.19	Yes
27-Jul-23	11.35AM	103.5	0.24	95.9	0.29	Yes
28-Jul-23	11.35AM	103.5	0.24	95.9	0.29	Yes
02-Aug-23	11.53AM	102.2	0.27	99.2	0.19	Yes
03-Aug-23	12.04PM	104.6	0.16	97.6	0.24	Yes
09-Aug-23	12.36PM	97.4	0.13	93.2	0.2	Yes
10-Aug-23	4.12PM	110.1	0.19	107	0.3	Yes
14-Aug-23	3.09PM	101.2	0.22	94.8	0.15	Yes

Date	Time	Airblast Overpressure Substation	Ground Vibration Substation	Airblast Overpressure 643 Marulan South Rd	Ground Vibration 643 Marulan South Rd	Compliant
		dB (Lin Peak)	*(mm/s)*	*dB (Lin Peak)*	*(mm/s)*	
16-Aug-23	12.40PM	88.6	0.13	96.8	0.31	Yes
21-Aug-23	3.31PM	98.2	0.16	92.3	0.13	Yes
23-Aug-23	12.48PM	103.5	0.3	101.5	0.28	Yes
24-Aug-23	12.48PM	103.5	0.3	101.5	0.28	Yes
28-Aug-23	1.44PM	94.7	0.27	99.9	0.2	Yes
30-Aug-23	12.44PM	103.5	0.24	103.1	0.21	Yes
31-Aug-23	12.35PM	102.6	0.45	100.8	0.56	Yes
06-Sep-23	3.35PM	100.7	0.14	No trigger	No trigger	Yes
11-Sep-23	12.31PM	90.6	0.28	99.2	0.39	Yes
13-Sep-23	11.17AM	90.6	0.14	No trigger	No trigger	Yes
18-Sep-23	12.10PM	0.06	0.15	No trigger	No trigger	Yes
20-Sep-23	12.26PM	0.05	0.14	No trigger	No trigger	Yes
25-Sep-23	1.01PM	0.05	0.14	94.7	0.2	Yes
26-Sep-23	12.43PM	0.05	0.14	No trigger	No trigger	Yes
27-Sep-23	12.43PM	0.05	0.14	No trigger	No trigger	Yes
04-Oct-23	3.25PM	0.01	0.06	No trigger	No trigger	Yes
05-Oct-23	12.36PM	97.4	0.09	No trigger	No trigger	Yes
09-Oct-23	1.54PM	90.6	0.12	92.1	0.16	Yes
11-Oct-23	12.53PM	90.6	0.11	No trigger	No trigger	Yes
12-Oct-23	12.53PM	90.6	0.11	No trigger	No trigger	Yes
16-Oct-23	2.26PM	111.1	0.05	94.2	0.13	Yes
18-Oct-23	01.16PM	92.2	0.12	NO TRIGGER	NO TRIGGER	Yes
23-Oct-23	2.41PM	98.2	0.14	99.2	0.13	Yes
25-Oct-23	10.35AM	113.9	0.16	NO TRIGGER	NO TRIGGER	Yes
30-Oct-23	1.31PM	120.1	0.18	107.6	0.17	Yes
01-Nov-23	11.54AM	90.6	0.15	NO TRIGGER	NO TRIGGER	Yes
02-Nov-23	11.55AM	90.6	0.17	96.2	0.23	Yes
06-Nov-23	2:40PM	90.6	0.06	93.5	0.14	Yes
08-Nov-23	1:59PM	90.6	0.06	NO TRIGGER	NO TRIGGER	Yes
13-Nov-23	2:08pm	NO TRIGGER	NO TRIGGER	NO TRIGGER	NO TRIGGER	Yes
15-Nov-23	2:06pm	NO TRIGGER	NO TRIGGER	NO TRIGGER	NO TRIGGER	Yes
16-Nov-23	1:30pm	NO TRIGGER	NO TRIGGER	NO TRIGGER	NO TRIGGER	Yes
20-Nov-23	4.35PM	NO TRIGGER	NO TRIGGER	NO TRIGGER	NO TRIGGER	Yes
23-Nov-23	1.02PM	NO TRIGGER	NO TRIGGER	NO TRIGGER	NO TRIGGER	Yes
27-Nov-23	3.39pm	NO TRIGGER	NO TRIGGER	NO TRIGGER	NO TRIGGER	Yes
30-Nov-23	1.40PM	101.1	0.2	NO TRIGGER	NO TRIGGER	Yes
04-Dec-23	3:03pm	NO TRIGGER	NO TRIGGER	NO TRIGGER	NO TRIGGER	Yes
06-Dec-23	2:35pm	97.6	0.11	NO TRIGGER	NO TRIGGER	Yes

Date	Time	Airblast Overpressure Substation	Ground Vibration Substation	Airblast Overpressure 643 Marulan South Rd	Ground Vibration 643 Marulan South Rd	Compliant
		dB (Lin Peak)	*(mm/s)*	*dB (Lin Peak)*	*(mm/s)*	
11-Dec-23	1:01pm	105.3	0.15	NO TRIGGER	NO TRIGGER	Yes
14-Dec-23	1.02pm	96	0.14	NO TRIGGER	NO TRIGGER	Yes
18-Dec-23	12:36pm	91.6	0.1	NO TRIGGER	NO TRIGGER	Yes
20-Dec-23	3:38pm	NO TRIGGER	NO TRIGGER	NO TRIGGER	NO TRIGGER	Yes
21-Dec-23	12.32pm	98.3	0.08	NO TRIGGER	NO TRIGGER	Yes
10-Jan-24	3:40pm	94.1	0.11	98.8	0.17	Yes
11-Jan-24	12:06pm	101.1	0.14	97.7	0.14	Yes
15-Jan-24	12:12pm	97.3	0.18	103.6	0.09	Yes
18-Jan-24	3.27pm	88.1	0.18	106.4	0.17	Yes
22-Jan-24	1:28pm	NO TRIGGER	NO TRIGGER	92.9	0.1	Yes
25-Jan-24	12:43pm	88.1	0.9	90.1	0.15	Yes
01-Feb-24	1:00pm	101.6	0.15	NO TRIGGER	NO TRIGGER	Yes
07-Feb-24	1:15pm	108.9	0.19	103	0.2	Yes
08-Feb-24	11:20am	100.6	0.17	NO TRIGGER	NO TRIGGER	Yes
09-Feb-24	11:20am	100.6	0.17	NO TRIGGER	NO TRIGGER	Yes
12-Feb-24	2:52pm	102.1	0.16	96.3	0.17	Yes
15-Feb-24	12:51pm	103.3	0.08	NO TRIGGER	NO TRIGGER	Yes
19-Feb-24	10.46am	95.1	0.19	99.9	0.3	Yes
21-Feb-24	1.33pm	94.1	0.19	98.1	0.16	Yes
26-Feb-24	3.50pm	98.3	0.16	104.9	0.17	Yes
29-Feb-24	3.36pm	97.6	0.2	94.8	0.17	Yes
04-Mar-24	3.37pm	94.1	0.11	NO TRIGGER	NO TRIGGER	Yes
07-Mar-24	12.30pm	102.1	0.12	NO TRIGGER	NO TRIGGER	Yes
13-Mar-24	10.41am	102.5	0.15	NO TRIGGER	NO TRIGGER	Yes
14-Mar-24	12.30pm	102.1	0.22	95.6	0.17	Yes
18-Mar-24	12.36pm	100.1	0.22	95.5	0.22	Yes
20-Mar-24	3.35pm	0	0	0	0	Yes
25-Mar-24	1.35pm	99.6	0.21	91.4	0.19	Yes
28-Mar-24	3.26pm	96	0.19	No trigger	No trigger	Yes
03-Apr-24	12.56pm	96	0.15	91.6	0.13	Yes
08-Apr-24	12.42pm	95.1	0.08	NO TRIGGER	NO TRIGGER	Yes
10-Apr-24	3.28pm	103.3	0.13	NO TRIGGER	NO TRIGGER	Yes
11-Apr-24	3.28pm	103.3	0.13	NO TRIGGER	NO TRIGGER	Yes
15-Apr-24	1.04pm	90	0.09	NO TRIGGER	NO TRIGGER	Yes
17-Apr-24	3.35pm	90	0.08	NO TRIGGER	NO TRIGGER	Yes
22-Apr-24	1.07pm	88.1	0.09	NO TRIGGER	NO TRIGGER	Yes
24-Apr-24	3.35pm	88.1	0.9	102.3	0.14	Yes
01-May-24	3:32pm	88.1	0.08	NO TRIGGER	NO TRIGGER	Yes

Date	Time	Airblast Overpressure Substation	Ground Vibration Substation	Airblast Overpressure 643 Marulan South Rd	Ground Vibration 643 Marulan South Rd	Compliant
		dB (Lin Peak)	*(mm/s)*	*dB (Lin Peak)*	*(mm/s)*	
02-May-24	3:30pm	99	0.09	NO TRIGGER	NO TRIGGER	Yes
06-May-24	01:13pm	105	0.18	102.7	0.18	Yes
08-May-24	2.01pm	96.9	0.2	95.3	0.2	Yes
09-May-24	3.30pm	91.6	0.11	NO TRIGGER	NO TRIGGER	Yes
13-May-24	3.29pm	96	0.27	94.8	0.14	Yes
16-May-24	12.47pm	100.6	0.15	97.8	0.17	Yes
20-May-24	1.42pm	103.3	0.09	NO TRIGGER	NO TRIGGER	Yes
22-May-24	3:05pm	96.9	0.16	97.9	0.13	Yes
23-May-24	3.32pm	102.5	0.13	NO TRIGGER	NO TRIGGER	Yes
27-May-24	3.33pm	88.1	0.06	NO TRIGGER	NO TRIGGER	Yes
30-May-24	12.42pm	96	0.08	NO TRIGGER	NO TRIGGER	Yes
05-Jun-24	1:03pm	88	0.06	NO TRIGGER	NO TRIGGER	Yes
06-Jun-24	1:13pm	90	0.23	NO TRIGGER	NO TRIGGER	Yes
13-Jun-24	3.33pm	99.6	0.14	98.5	0.13	Yes
17-Jun-24	3.31pm	100.1	0.13	101	0.15	Yes
19-Jun-24	3.30pm	97.6	0.15	97.3	0.16	Yes
24-Jun-24	2.41pm	96	0.11	NO TRIGGER	NO TRIGGER	Yes
27-Jun-24	12.41pm	110.7	0.1	NO TRIGGER	NO TRIGGER	Yes
28-Jun-24	10:04	112.2	0.08	NO TRIGGER	NO TRIGGER	Yes
01-Jul-24	3:32pm	102.5	0.26	no trigger	no trigger	Yes
04-Jul-24	1:07pm	100	0.23	97.8	0.25	Yes
08-Jul-24	2:18pm	82.5	0.08	no trigger	no trigger	Yes
11-Jul-24	12.34pm	86.1	0.08	94.4	0.23	Yes
15-Jul-24	3.47pm	107.1	0.2	100.9	0.32	Yes
18-Jul-24	1:03pm	98.8	0.06	no trigger	no trigger	Yes
22-Jul-24	12.30pm	97.3	0.06	104.6	0.19	Yes
25-Jul-24	12:42pm	90.5	0.15	no trigger	no trigger	Yes
29-Jul-24	1.16pm	99.4	0.18	98.4	no trigger	Yes
01-Aug-24	12.32pm	99.4	0.16	No Trigger	No Trigger	Yes
05-Aug-24	1.09pm	86.1	0.6	92.4	0.26	Yes
06-Aug-24	1.09pm	86.1	0.6	92.4	0.26	Yes
07-Aug-24	3.25pm	82.5	0.6	101.3	0.28	Yes
08-Aug-24	3.35pm	88.5	0.08	No Trigger	No Trigger	Yes
12-Aug-24	1:50pm	82.5	0.06	No Trigger	no trigger	Yes
14-Aug-24	3:39pm	98.8	0.23	100.5	0.13	Yes
15-Aug-24	12:28pm	102.1	0.19	100.1	0.21	Yes
19-Aug-24	1:36pm	82.5	0.06	No Trigger	No Trigger	Yes
22-Aug-24	3.30pm	97.3	0.08	No Trigger	No Trigger	Yes

Date	Time	Airblast Overpressure Substation	Ground Vibration Substation	Airblast Overpressure 643 Marulan South Rd	Ground Vibration 643 Marulan South Rd	Compliant
		dB (Lin Peak)	*(mm/s)*	*dB (Lin Peak)*	*(mm/s)*	
26-Aug-24	1:40pm	103	0.06	No Trigger	No Trigger	Yes
28-Aug-24	1.25PM	98.1	0.28	103.5	0.24	Yes
02-Sep-24	3:35pm	118.7	0.09	117.9	0.17	Yes
04-Sep-24	3.40pm	94.4	0.06	95.6	0.14	Yes
05-Sep-24	12:33pm	101.6	0.06	No Trigger	No Trigger	Yes
09-Sep-24	1.01pm	96.5	0.08	105.3	0.26	Yes
11-Sep-24	3:30pm	82.5	0.06	No Trigger	No Trigger	Yes
16-Sep-24	2:39pm	93.4	0.08	102.9	0.25	Yes
19-Sep-24	3:33pm	98.8	0.06	106.8	0.23	Yes
23-Sep-24	2:27pm	104.8	0.23	100.8	0.17	Yes
26-Sep-24	2:32pm	104.1	0.18	112.1	0.19	Yes
30-Sep-24	3:32pm	-	-	No Trigger	No Trigger	Yes
02-Oct-24	3:33pm	-	-	No Trigger	No Trigger	Yes
03-Oct-24	2:31pm	-	-	No Trigger	No Trigger	Yes
09-Oct-24	3:36pm	No Trigger	No Trigger	96.4	0.19	Yes
10-Oct-24	1:21pm	No Trigger	No Trigger	98.1	0.2	Yes
14-Oct-24	1:04pm	No Trigger	No Trigger	97.4	0.36	Yes
17-Oct-24	3:39pm	No Trigger	No Trigger	98.4	0.29	Yes
21-Oct-24	3:41pm	No Trigger	No Trigger	No Trigger	No Trigger	Yes
24-Oct-24	3:39pm	99.7	0.28	101.9	0.2	Yes
28-Oct-24	2:38pm	106.5	0.14	No Trigger	No Trigger	Yes
29-Oct-24	2:38pm	106.5	0.14	No Trigger	No Trigger	Yes
30-Oct-24	12:44pm	97.4	0.1	No Trigger	No Trigger	Yes
31-Oct-24	1:31pm	103.1	0.08	96.9	0.18	Yes
4-Nov-24	12:48pm	106.7	0.18	93.8	0.21	Yes
5-Nov-24	12:54pm	105.4	0.09	No Trigger	No Trigger	Yes
7-Nov-24	1:05pm	98.8	0.14	No Trigger	No Trigger	Yes
11-Nov-24	2:17pm	97.4	0.21	94.6	0.13	Yes
13-Nov-24	12:38pm	102.3	0.12	No Trigger	No Trigger	Yes
14-Nov-24	3:30pm	99.9	0.17	95.5	0.17	Yes
18-Nov-24	1:39pm	109.3	0.19	No Trigger	No Trigger	Yes
20-Nov-24	1:37pm	96.7	0.1	No Trigger	No Trigger	Yes
21-Nov-24	1:37pm	103.1	0.17	No Trigger	No Trigger	Yes
25-Nov-24	3:31pm	97.4	0.18	93.6	0.24	Yes
28-Nov-24	1:35pm	81.9	0.09	92.4	0.18	Yes
1-Dec-24	3:00pm	103.5	0.1	105	0.31	Yes
2-Dec-24	3:00pm	103.5	0.1	105	0.31	Yes
3-Dec-24	3:00pm	103.5	0.1	105	0.31	Yes

Date	Time	Airblast Overpressure Substation	Ground Vibration Substation	Airblast Overpressure 643 Marulan South Rd	Ground Vibration 643 Marulan South Rd	Compliant
		dB (Lin Peak)	*(mm/s)*	*dB (Lin Peak)*	*(mm/s)*	
5-Dec-24	1:35pm	89.7	0.1	No Trigger	No Trigger	Yes
9-Dec-24	3:36pm	93.9	0.1	No Trigger	No Trigger	Yes
10-Dec-24	1:07pm	94.9	0.17	No Trigger	No Trigger	Yes
12-Dec-24	1:35pm	85.4	0.1	No Trigger	No Trigger	Yes
13-Dec-24	1:35pm	85.4	0.1	No Trigger	No Trigger	Yes
17-Dec-24	1:34pm	106.2	0.1	No Trigger	No Trigger	Yes
18-Dec-24	2:09pm	93.9	0.8	No Trigger	No Trigger	Yes
19-Dec-24	3:35pm	95.1	0.1	No Trigger	No Trigger	Yes
8-Jan-25	1:38pm	81.9	0.7	94.9	0.23	Yes
9-Jan-25	1:05pm	92.8	0.16	No Trigger	No Trigger	Yes
13-Jan-25	1:37pm	101.9	0.14	No Trigger	No Trigger	Yes
15-Jan-25	3:38pm	97.4	0.14	No Trigger	No Trigger	Yes
20-Jan-25	3:32pm	98.8	0.15	No Trigger	No Trigger	Yes
22-Jan-25	11:46pm	96.7	0.12	No Trigger	No Trigger	Yes
23-Jan-25	1:09pm	107.2	0.11	No Trigger	No Trigger	Yes
28-Jan-25	3:53pm	91.4	0.13	No Trigger	No Trigger	Yes
30-Jan-25	12:43pm	94.9	0.9	No Trigger	No Trigger	Yes
2-Feb-25	2:30pm	102.3	0.18	91.4	0.21	Yes
3-Feb-25	2:30pm	102.3	0.18	91.4	0.21	Yes
4-Feb-25	2:30pm	102.3	0.18	91.4	0.21	Yes
5-Feb-25	1:32pm	105.1	0.11	No Trigger	No Trigger	Yes
11-Feb-25	3:26pm	96.7	0.1	No Trigger	No Trigger	Yes
12-Feb-25	1:35pm	87.9	0.9	No Trigger	No Trigger	Yes
17-Feb-25	3:36pm	81.8	0.9	94.3	0.17	Yes
20-Feb-25	1.34pm	91.4	0.8	96.1	0.27	Yes
24-Feb-25	3.52pm	97.4	0.9	No Trigger	No Trigger	Yes
25-Feb-25	3.52pm	97.4	0.9	No Trigger	No Trigger	Yes
27-Feb-25	3.52pm	92.8	0.12	No Trigger	No Trigger	Yes
3-Mar-25	3.37pm	99.4	0.9	95.9	0.24	Yes
6-Mar-25	1.39pm	101.4	0.1	94.1	0.18	Yes
10-Mar-25	3.39pm	81.9	0.1	No Trigger	No Trigger	Yes
12-Mar-25	1.20pm	85.4	0.09	93.8	0.21	Yes
13-Mar-25	11.32am	87.9	0.1	No Trigger	No Trigger	Yes
17-Mar-25	1.01pm	84.5	0.9	No Trigger	No Trigger	Yes
20-Mar-25	3.35pm	81.9	0.01	No Trigger	No Trigger	Yes
24-Mar-25	3.40pm	94.9	0.1	No Trigger	No Trigger	Yes
27-Mar-25	2:04pm	104.5	0.09	No Trigger	No Trigger	Yes
31-Mar-25	3:30pm	85.4	0.09	96.3	0.15	Yes

Date	Time	Airblast Overpressure Substation	Ground Vibration Substation	Airblast Overpressure 643 Marulan South Rd	Ground Vibration 643 Marulan South Rd	Compliant
		dB (Lin Peak)	*(mm/s)*	*dB (Lin Peak)*	*(mm/s)*	
2-Apr-25	1.27pm	91.4	0.15	No Trigger	No Trigger	Yes
3-Apr-25	3.37pm	85.4	0.1	94.2	0.16	Yes
7-Apr-25	3.40pm	106.5	0.15	No Trigger	No Trigger	Yes
9-Apr-25	1:46pm	102.3	0.17	No Trigger	No Trigger	Yes
10-Apr-25	1:46pm	102.3	0.17	No Trigger	No Trigger	Yes
13-Apr-25	1:40pm	106	0.15	93.5	0.18	Yes
14-Apr-25	1:40pm	106	0.15	93.5	0.18	Yes
16-Apr-25	3.38pm	102.7	0.15	94.8	0.2	Yes
17-Apr-25	3.38pm	102.7	0.15	94.8	0.2	Yes
23-Apr-25	2:08pm	108.9	0.12	No Trigger	No Trigger	Yes
24-Apr-25	2:08pm	108.9	0.12	No Trigger	No Trigger	Yes
29-Apr-25	3.32pm	85.4	0.13	No Trigger	No Trigger	Yes
30-Apr-25	1.05pm	85.4	0.11	No Trigger	No Trigger	Yes
1-May-25	1:10pm	106	0.15	No Trigger	No Trigger	Yes
5-May-25	4:04pm	94.4	0.24	94.4	0.35	Yes
8-May-25	3:31pm	103.1	0.11	No Trigger	No Trigger	Yes
12-May-25	2:19pm	105.1	0.18	No Trigger	No Trigger	Yes
15-May-25	3:31pm	85.4	0.08	No Trigger	No Trigger	Yes
19-May-25	1:33pm	97.4	0.07	No Trigger	No Trigger	Yes
22-May-25	3:33pm	94.9	0.24	No Trigger	No Trigger	Yes
26-May-25	1:17pm	81.9	0.19	No Trigger	No Trigger	Yes
28-May-25	3:31pm	102.7	0.08	No Trigger	No Trigger	Yes
2-Jun-25	1:32pm	98.8	0.9	No Trigger	No Trigger	Yes
5-Jun-25	4:12pm	81.9	0.06	No Trigger	No Trigger	Yes
12-Jun-25	1:10pm	91.4	0.06	No Trigger	No Trigger	Yes
16-Jun-25	1:03pm	91.4	0.15	No Trigger	No Trigger	Yes
19-Jun-25	4:30pm	101.9	0.18	No Trigger	No Trigger	Yes
23-Jun-25	3:18pm	94.4	0.7	No Trigger	No Trigger	Yes
26-Jun-25	1:16pm	98.1	0.19	No Trigger	No Trigger	Yes
9-July-25	1:07pm	103.1	0.15	No Trigger	No Trigger	Yes
10-July25	3:08pm	110.2	0.28	No Trigger	No Trigger	Yes
14-July-25	2:01pm	101.9	0.06	No Trigger	No Trigger	Yes
16-July-25	3:38pm	97.4	0.1	No Trigger	No Trigger	Yes
17-July-25	4:20pm	103.5	0.2	108.3	0.4	Yes
23-July-25	3:41pm	101	0.15	No Trigger	No Trigger	Yes
24-July-25	3:09pm	106.2	0.07	No Trigger	No Trigger	Yes
31-July-25	1:40pm	103.6	0.15	No Trigger	No Trigger	Yes
4-Aug-25	2:01pm	106.7	0.14	No Trigger	No Trigger	Yes

Date	Time	Airblast Overpressure Substation	Ground Vibration Substation	Airblast Overpressure 643 Marulan South Rd	Ground Vibration 643 Marulan South Rd	Compliant
		dB (Lin Peak)	*(mm/s)*	*dB (Lin Peak)*	*(mm/s)*	
7-Aug-25	3:38pm	81.9	0.18	No Trigger	No Trigger	Yes
13-Aug-25	2:10pm	93.9	0.18	No Trigger	No Trigger	Yes
18-Aug-25	2:38pm	No Trigger	No Trigger	No Trigger	No Trigger	Yes
21-Aug-25	3:41pm	No Trigger	No Trigger	No Trigger	No Trigger	Yes
27-Aug-25	2:05pm	No Trigger	No Trigger	No Trigger	No Trigger	Yes
28-Aug-25	2:11pm	No Trigger	No Trigger	No Trigger	No Trigger	Yes
1-Sep-25	1:09pm	No Trigger	No Trigger	No Trigger	No Trigger	Yes
4-Sep-25	3:02pm	No Trigger	No Trigger	No Trigger	No Trigger	Yes
8-Sep-25	2:59pm	No Trigger	No Trigger	No Trigger	No Trigger	Yes
15-Sep-25	2:14pm	No Trigger	No Trigger	No Trigger	No Trigger	Yes
17-Sep-25	2:10pm	No Trigger	No Trigger	No Trigger	No Trigger	Yes
18-Sep-25	2:12pm	No Trigger	No Trigger	No Trigger	No Trigger	Yes
24-Sep-25	2:18pm	No Trigger	No Trigger	No Trigger	No Trigger	Yes
25-Sep-25	2:15pm	No Trigger	No Trigger	No Trigger	No Trigger	Yes
29-Sep-25	2:09pm	No Trigger	No Trigger	No Trigger	No Trigger	Yes
2-Oct-25	2:21pm	No Trigger	No Trigger	No Trigger	No Trigger	Yes
3-Oct-25	2:21pm	No Trigger	No Trigger	No Trigger	No Trigger	Yes
8-Oct-25	2:02pm	No Trigger	No Trigger	No Trigger	No Trigger	Yes
13-Oct-25	2:24pm	No Trigger	No Trigger	No Trigger	No Trigger	Yes
16-Oct-25	2:10pm	No Trigger	No Trigger	No Trigger	No Trigger	Yes
20-Oct-25	2:44pm	No Trigger	No Trigger	No Trigger	No Trigger	Yes
23-Oct-25	2:02pm	No Trigger	No Trigger	No Trigger	No Trigger	Yes
29-Oct-25	2:05pm	No Trigger	No Trigger	No Trigger	No Trigger	Yes
5-Nov-25	4:07pm	96.4	0.36	94.2	0.29	Yes
6-Nov-25	2:11pm	No Trigger	No Trigger	No Trigger	No Trigger	Yes
10-Nov-25	12:35pm	No Trigger	No Trigger	No Trigger	No Trigger	Yes
13-Nov-25	2:11pm	88.7	0.31	No trigger	No trigger	Yes
19-Nov-25	2:41pm	98.1	0.21	No trigger	No trigger	Yes
20-Nov-25	1:59pm	No trigger	No trigger	No trigger	No trigger	Yes
26-Nov-25	3:04pm	No trigger	No trigger	No trigger	No trigger	Yes
27-Nov-25	1:01pm	No trigger	No trigger	No trigger	No trigger	Yes
1-Dec-25	3:16pm	88.2	0.28	No trigger	No trigger	Yes
4-Dec-25	2:34pm	No trigger	No trigger	No trigger	No trigger	Yes
8-Dec-25	3:38pm	No trigger	No trigger	No trigger	No trigger	Yes
10-Dec-25	12:36pm	No trigger	No trigger	No trigger	No trigger	Yes
15-Dec-25	2:10pm	No trigger	No trigger	No trigger	No trigger	Yes
18-Dec-25	2:04pm	No trigger	No trigger	No trigger	No trigger	Yes
22-Dec-25	2:30pm	No trigger	No trigger	100.2	0.22	Yes

Date	Time	Airblast Overpressure Substation	Ground Vibration Substation	Airblast Overpressure 643 Marulan South Rd	Ground Vibration 643 Marulan South Rd	Compliant
		dB (Lin Peak)	*(mm/s)*	*dB (Lin Peak)*	*(mm/s)*	
7-Jan-26	2:27pm	99.7	0.24	103.7	0.23	Yes
8-Jan-26	2:04pm	No trigger	No trigger	No trigger	No trigger	Yes
14-Jan-26	2:13pm	No trigger	No trigger	No trigger	No trigger	Yes
15-Jan-26	11:58pm	93.9	0.26	No trigger	No trigger	Yes
19-Jan-26	2:39pm	No trigger	No trigger	No trigger	No trigger	Yes
22-Jan-26	2:04pm	95.7	0.2	No trigger	No trigger	Yes
28-Jan-26	2.23pm	No trigger	No trigger	No trigger	No trigger	Yes
29-Jan-26	2:04pm	No trigger	No trigger	No trigger	No trigger	Yes
4-Feb-26	2:54pm	No trigger	No trigger	No trigger	No trigger	Yes
9-Feb-26	1.36pm	No trigger	No trigger	No trigger	No trigger	Yes
12-Feb-26	1:31pm	No trigger	No trigger	No trigger	No trigger	Yes
16-Feb-26	3.35pm	No trigger	No trigger	No trigger	No trigger	Yes
19-Feb-26	3:46pm	No trigger	No trigger	No trigger	No trigger	Yes
23-Feb-26	2:50pm	No trigger	No trigger	No trigger	No trigger	Yes
2-Mar-26	2:48pm	102	0.2	106.3	0.22	Yes
4-Mar-26	2:05pm	No trigger	No trigger	No trigger	No trigger	Yes
9-Mar-26	3:45pm	No trigger	No trigger	No trigger	No trigger	Yes
12-Mar-26	2:16pm	No trigger	No trigger	No trigger	No trigger	Yes
16-Mar-26	2:37pm	No trigger	No trigger	No trigger	No trigger	Yes
19-Mar-26	2:16pm	No trigger	No trigger	No trigger	No trigger	Yes
23-Mar-26	2:40pm	No trigger	No trigger	No trigger	No trigger	Yes
26-Mar-26	2:36pm	No trigger	No trigger	No trigger	No trigger	Yes
30-Mar-26	3:28pm	No trigger	No trigger	No trigger	No trigger	Yes
2-Apr-26	4:04pm	No trigger	No trigger	No trigger	No trigger	Yes
9-Apr-26	2:00pm	No trigger	No trigger	No trigger	No trigger	Yes
13-Apr-26	2:00pm	No trigger	No trigger	104.1	0.3	Yes
15-Apr-26	12:11pm	No trigger	No trigger	No trigger	No trigger	Yes
30-Apr-26	2:08pm	No trigger	No trigger	No trigger	No trigger	Yes
6-May-26	2:53pm	No trigger	No trigger	No trigger	No trigger	Yes
11-May-26	3:31pm	No trigger	No trigger	No trigger	No trigger	Yes
14-May-26	2:08pm	No trigger	No trigger	111.5	0.26	Yes
18-May-26	3:01pm	No trigger	No trigger	No trigger	No trigger	Yes
25-May-26	2:03pm	No trigger	No trigger	No trigger	No trigger	Yes
1-Jun-26	3:39pm	No trigger	No trigger	No trigger	No trigger	Yes
4-Jun-26	1:48pm	No trigger	No trigger	No trigger	No trigger	Yes
15-Jun-26	2:06pm	No trigger	No trigger	No trigger	No trigger	Yes
18-Jun-26	2:02pm	No trigger	No trigger	No trigger	No trigger	Yes
22-Jun-26	3:34pm	No trigger	No trigger	96	0.23	Yes

Date	Time	Airblast Overpressure Substation	Ground Vibration Substation	Airblast Overpressure 643 Marulan South Rd	Ground Vibration 643 Marulan South Rd	Compliant
		dB (Lin Peak)	*(mm/s)*	*dB (Lin Peak)*	*(mm/s)*	
25-Jun-26	3:36pm	No trigger	No trigger	99	0.29	Yes
2-Jul-26	11:34am	No trigger	No trigger	No trigger	No trigger	Yes
7-Jul-26	3.41pm	No trigger	No trigger	95.2	0.27	Yes
9-Jul-26	2.20pm	No trigger	No trigger	106.6	0.37	Yes
16-Jul-26	2.04pm	No trigger	No trigger	No trigger	No trigger	Yes
20-Jul-26	3.39pm	No trigger	No trigger	95.6	0.29	Yes
23-Jul-26	2.07pm	No trigger	No trigger	No trigger	No trigger	Yes
29-Jul-26	11.29am	No trigger	No trigger	No trigger	No trigger	Yes
30-Jul-26	1.31pm	No trigger	No trigger	No trigger	No trigger	Yes
6-Aug-26	3:55pm	No trigger	No trigger	94.2	0.3	Yes
11-Aug-26	2:00pm	No trigger	No trigger	No trigger	No trigger	Yes
13-Aug-26	2:07pm	No trigger	No trigger	No trigger	No trigger	Yes
18-Aug-26	2:00pm	No trigger	No trigger	91.4	0.27	Yes
20-Aug-26	1:54pm	93.4	0.22	No trigger	No trigger	Yes
25-Aug-26	3:39pm	No trigger	No trigger	94.7	0.27	Yes
27-Aug-26	3:04pm	No trigger	No trigger	105.1	0.24	Yes
1-Sep-26	2:02pm	No trigger	No trigger	No trigger	No trigger	Yes
8-Sep-26	2:16pm	No trigger	No trigger	95.4	0.31	Yes
10-Sep-26	3:31pm	No trigger	No trigger	No trigger	No trigger	Yes
15-Sep-26	2:17pm	No trigger	No trigger	No trigger	No trigger	Yes
17-Sep-26	2:00pm	No trigger	No trigger	No trigger	No trigger	Yes
22-Sep-26	2:11pm	No trigger	No trigger	No trigger	No trigger	Yes
24-Sep-26	3:40pm	No trigger	No trigger	No trigger	No trigger	Yes
29-Sep-26	11:33am	No trigger	No trigger	No trigger	No trigger	Yes
1-Oct-26	2:38pm	No trigger	No trigger	No trigger	No trigger	Yes
7-Oct-26	3:34pm	No trigger	No trigger	No trigger	No trigger	Yes
8-Oct-26	3:34pm	No trigger	No trigger	No trigger	No trigger	Yes

*30th September 24, 2nd October 24 and 3rd October 24 the substation blast monitor was damaged but still recording, on these dates the readings were taken but aren't accurate.
** From 18 Aug a new vibration and overpressure unit was installed with the geophone trigger set at 0.20mm/s. For accuracy, the trigger is set off the ground vibration, once above 0.20 the overpressure records as the microphone trigger can cause issues during windy period (constant triggering).

4 Water monitoring: WM05 Bore

Current Licence requirements cover quarterly monitoring of groundwater quality in the North Pit Bore until March 2020 and Then WM05 Bore, (both bores were/are now EPA Identification No. 13).

Licence limits: Not specified.

The NSW State guidelines: Typical discharge limits are as follows:

Oil and Grease: 10 milligrams per litre

Total Suspended Solids: 30-50 milligrams per litre.

Sampling date	Report received on	Report published on	Oil and Grease (mg/L)	Total Suspended Solids (mg/L)
12/03/19	29/03/19		<1	4
26/06/19	04/09/19	04/09/19	<5	21
23/10/19	12/11/19	04/11/19	<5	54
17/12/19	7/2/20	14/1/20	<5	28
24/3/20	7/4/20	7/4/20	<5	5
Note: North Pit Bore is no longer operational as of the 24/3/2020. Replaced in EPL by Ground Water Monitoring Point labelled “WM05” on map “EPL 944 Ground Water Monitoring Point Location Change – December 2020” (DOC20/1014984)				
29/9/20	8/10/20	8/10/20	<5	<5
9/12/20	18/12/20	18/12/20	<5	11
31/3/21	22/6/21	9/04/21	<5	<5
15/6/21	5/7/21	5/7/21	<5	14
30/9/21	11/10/21	11/10/21	<5	11
13/12/21	10/1/22	23/12/21	<5	15
24/3/22	1/6/22	31/3/22	<5	11
8/6/22	26/7/22	20/6/22	<5	14
13/09/22	26/09/22	26/09/22	<5	18
21/12/22	06/01/23	11/1/23	5	48
29/03/23	29/3/23	09/04/23	<5	10
21/06/23	22/6/23	07/07/23	<5	10
6/09/23	15/09/23	04/09/23	<5	23
4/12/23	18/12/23	18/12/23	<5	26
25/03/24	10/04/24	10/04/24	<5	40
19/06/24	28/06/24	01/08/24	<5	37
25/11/24	04/12/24	01/01/24	<5	16
17/12/24	06/01/25	01/02/25	<5	102
11/3/25	20/03/25	02/04/25	<5	54
18/6/25	04/07/25	31/01/25	<5	41
18/9/25	18/09/25	31/09/25	<5	35
25/12/25	18/09/25	31/09/25	<5	54
16/03/26	05/05/26	18/01/26	<5	43

Sampling date	Report received on	Report published on	Oil and Grease (mg/L)	Total Suspended Solids (mg/L)
10/06/26	26/06/26	10/07/26	<5	69
16/09/2026	28/09/2026	15/10/2026	<5	50

Compliance Summary: The plant does not have Licence limits for water parameters. It is however compliant with the adopted NSW guideline values.

5 Noise monitoring

Quarterly noise monitoring is conducted as per condition L4 of EPL 944.

Date Sampled: 07/06/23
Date Received: 30/06/23
Meteorological Conditions: Wind speeds up to 6.2m/s at 10m above ground level representative of noise enhancing meteorological conditions

Receiver	*Date*	*Site Noise Level Contribution*	*Operational Criteria (dB(A))*	*Compliant*
EPL ID		**LAeq, 15 minute (dB(A))**	**Daytime**	
R6	07/06/23	<35	40	yes
R8	07/06/23	<35	40	yes
R9	07/06/23	<35	40	yes
R12	07/06/23	<35	40	yes
R17	07/06/23	<30	40	yes
Receiver	*Date*	*Site Noise Level Contribution*	*Operational Criteria (dB(A))*	*Compliant*
EPL ID		**LAeq, 15 minute (dB(A))**	**Evening**	
R6	07/06/23	<35	35	yes
R8	07/06/23	<35	35	yes
R9	07/06/23	<35	36	yes
R12	07/06/23	<30	35	yes
R17	07/06/23	<30	35	yes
Receiver	*Date*	*Site Noise Level Contribution*	*Operational Criteria (dB(A))*	*Compliant*
EPL ID		**LAeq, 15 minute (dB(A))**	**Night**	
R6	07/06/23	<35	35	yes
R8	07/06/23	<35	35	yes
R9	07/06/23	<35	36	yes
R12	07/06/23	<35	35	yes
R17	07/06/23	<30	35	yes
Receiver	*Date*	*Site Noise Level Contribution*	*Operational Criteria (dB(A))*	*Compliant*
EPL ID		**LAeq, 1 minute (dB(A))**	**Night**	
R6	07/06/23	<52	52	yes
R8	07/06/23	<52	52	yes
R9	07/06/23	<52	52	yes
R12	07/06/23	<52	52	yes
R17	07/06/23	<52	52	yes

Date Sampled: 27/09/23-28/09/23
Date Received: 25/10/23
Meteorological Conditions: Wind speeds up to 3.2m/s at 10m above ground level representative of noise enhancing meteorological conditions

Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))	Compliant
EPL ID		LAeq, 15 minute (dB(A))	Daytime	
R6	27/09/23	<40	40	yes
R8	27/09/23	<40	40	yes
R9	27/09/23	<40	40	yes
R12	27/09/23	<40	40	yes
R17	27/09/23	<40	40	yes
Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))	Compliant
EPL ID		LAeq, 15 minute (dB(A))	Evening	
R6	27/09/23	<35	35	yes
R8	27/09/23	<35	35	yes
R9	27/09/23	<36	36	yes
R12	27/09/23	<35	35	yes
R17	27/09/23	<35	35	yes
Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))	Compliant
EPL ID		LAeq, 15 minute (dB(A))	Night	
R6	28/09/23	<35	35	yes
R8	27/09/23	<35	35	yes
R9	27/09/23	<36	36	yes
R12	28/09/23	<35	35	yes
R17	27/09/23	<35	35	yes
Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))	Compliant
EPL ID		LAeq, 1 minute (dB(A))	Night	
R6	28/09/23	<52	52	yes
R8	27/09/23	<52	52	yes
R9	27/09/23	<52	52	yes
R12	28/09/23	<52	52	yes
R17	27/09/23	<52	52	yes

Date Sampled: 12/12/23-13/12/23
Date Received: 21/12/23
Meteorological Conditions: Wind speeds up to 4.3 m/s at 10m above ground level representative of noise enhancing meteorological conditions.

Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))	Compliant
EPL ID		LAeq, 15 minute (dB(A))	Daytime	
R6	12/12/23	<40	40	yes
R8	12/12/23	<40	40	yes
R9	12/12/23	<40	40	yes
R12	12/12/23	<40	40	yes

R17	12/12/23	<40	40	yes
Receiver	***Date***	***Site Noise Level Contribution***	***Operational Criteria (dB(A))***	***Compliant***
EPL ID		**LAeq, 15 minute (dB(A))**	**Evening**	
R6	12/12/23	<35	35	yes
R8	12/12/23	<35	35	yes
R9	12/12/23	<36	36	yes
R12	12/12/23	<35	35	yes
R17	12/12/23	<35	35	yes
Receiver	***Date***	***Site Noise Level Contribution***	***Operational Criteria (dB(A))***	***Compliant***
EPL ID		**LAeq, 15 minute (dB(A))**	**Night**	
R6	13/12/23	<35	35	yes
R8	13/12/23	<35	35	yes
R9	13/12/23	<36	36	yes
R12	13/12/23	<35	35	yes
R17	13/12/23	<35	35	yes
Receiver	***Date***	***Site Noise Level Contribution***	***Operational Criteria (dB(A))***	***Compliant***
EPL ID		**LAeq, 1 minute (dB(A))**	**Night**	
R6	13/12/23	<52	52	yes
R8	13/12/23	<52	52	yes
R9	13/12/23	<52	52	yes
R12	13/12/23	<52	52	yes
R17	13/12/23	<52	52	yes

Date Sampled: 06/03/24
Date Received: 28/03/24
Meteorological Conditions: Wind speeds up to 5.2 m/s at 10m above ground level representative of noise enhancing meteorological conditions

Receiver	***Date***	***Site Noise Level Contribution***	***Operational Criteria (dB(A))***	***Compliant***
EPL ID		**LAeq, 15 minute (dB(A))**	**Daytime**	
R6	06/03/24	<40	40	yes
R8	06/03/24	<40	45	yes
R9	06/03/24	<40	45	yes
R12	06/03/24	<40	40	yes
R17	06/03/24	<40	40	yes
Receiver	***Date***	***Site Noise Level Contribution***	***Operational Criteria (dB(A))***	***Compliant***
EPL ID		**LAeq, 15 minute (dB(A))**	**Evening**	
R6	06/03/24	<35	35	yes
R8	06/03/24	<35	35	yes
R9	06/03/24	<36	36	yes
R12	06/03/24	<35	35	yes

R17	06/03/24	<35	35	yes
Receiver	***Date***	***Site Noise Level Contribution***	***Operational Criteria (dB(A))***	***Compliant***
EPL ID		**LAeq, 15 minute (dB(A))**	**Night**	
R6	06/03/24	<35	40	yes
R8	06/03/24	<35	40	yes
R9	06/03/24	<36	41	yes
R12	06/03/24	<35	40	yes
R17	06/03/24	<35	40	yes
Receiver	***Date***	***Site Noise Level Contribution***	***Operational Criteria (dB(A))***	***Compliant***
EPL ID		**LAeq, 1 minute (dB(A))**	**Night**	
R6	06/03/24	<52	57	yes
R8	06/03/24	<52	57	yes
R9	06/03/24	<52	57	yes
R12	06/03/24	<52	57	yes
R17	06/03/24	<52	57	yes

Date Sampled: 03/07/24 - 04/07/24
Date Received: 27/08/24
Meteorological Conditions: Wind speeds up to 4.2 m/s at 10m above ground level representative of noise enhancing meteorological conditions

Receiver	***Date***	***Site Noise Level Contribution***	***Operational Criteria (dB(A))***	***Compliant***
EPL ID		**LAeq, 15 minute (dB(A))**	**Daytime**	
R6	04/07/24	<40	40	yes
R8	04/07/24	<40	40	yes
R9	04/07/24	<40	40	yes
R12	04/07/24	<40	45	yes
R17	04/07/24	<40	45	yes
Receiver	***Date***	***Site Noise Level Contribution***	***Operational Criteria (dB(A))***	***Compliant***
EPL ID		**LAeq, 15 minute (dB(A))**	**Evening**	
R6	03/07/24	<35	35	yes
R8	03/07/24	<35	35	yes
R9	03/07/24	<36	36	yes
R12	03/07/24	<35	35	yes
R17	03/07/24	<35	35	yes
Receiver	***Date***	***Site Noise Level Contribution***	***Operational Criteria (dB(A))***	***Compliant***
EPL ID		**LAeq, 15 minute (dB(A))**	**Night**	
R6	03/07/24	<35	35	yes
R8	03/07/24	<35	35	yes
R9	03/07/24	<36	36	yes
R12	04/07/24	<40	40	yes

R17	03/07/24	<35	35	yes
Receiver	***Date***	***Site Noise Level Contribution***	***Operational Criteria (dB(A))***	***Compliant***
EPL ID		**LAeq, 1 minute (dB(A))**	**Night**	
R6	03/07/24	<52	52	yes
R8	03/07/24	<52	52	yes
R9	03/07/24	<52	52	yes
R12	04/07/24	<52	57	yes
R17	03/07/24	<52	52	yes

Date Sampled: 03/10/24
Date Received: 28/10/24
Meteorological Conditions: Wind speeds up to 3.1 m/s at 10m above ground level representative of noise enhancing meteorological conditions

Receiver	***Date***	***Site Noise Level Contribution***	***Operational Criteria (dB(A))***	***Compliant***
EPL ID		**LAeq, 15 minute (dB(A))**	**Daytime**	
R6	03/10/24	<40	40	yes
R8	03/10/24	<40	45	yes
R9	03/10/24	<40	45	yes
R12	03/10/24	<40	40	yes
R17	03/10/24	<40	40	yes
Receiver	***Date***	***Site Noise Level Contribution***	***Operational Criteria (dB(A))***	***Compliant***
EPL ID		**LAeq, 15 minute (dB(A))**	**Evening**	
R6	02/10/24	<35	35	yes
R8	02/10/24	<35	35	yes
R9	02/10/24	<36	36	yes
R12	02/10/24	<35	35	yes
R17	02/10/24	<35	35	yes
Receiver	***Date***	***Site Noise Level Contribution***	***Operational Criteria (dB(A))***	***Compliant***
EPL ID		**LAeq, 15 minute (dB(A))**	**Night**	
R6	02/10/24	<35	40	yes
R8	02/10/24	<35	40	yes
R9	02/10/24	<36	41	yes
R12	02/10/24	<35	40	yes
R17	02/10/24	<35	40	yes
Receiver	***Date***	***Site Noise Level Contribution***	***Operational Criteria (dB(A))***	***Compliant***
EPL ID		**LAeq, 1 minute (dB(A))**	**Night**	
R6	02/10/24	<52	57	yes
R8	02/10/24	<52	57	yes
R9	02/10/24	<52	57	yes
R12	06/03/24	<52	57	yes

R17	02/10/24	<52	57	yes

Date Sampled: 10/12/24
Date Received: 20/12/24
Meteorological Conditions: Wind speeds up to 5.0 m/s at 10m above ground level representative of noise enhancing meteorological conditions

Receiver	***Date***	***Site Noise Level Contribution***	***Operational Criteria (dB(A))***	***Compliant***
EPL ID		**LAeq, 15 minute (dB(A))**	**Daytime**	
R6	11/12/24	<40	40	yes
R8	11/12/24	<40	45	yes
R9	11/12/24	<40	45	yes
R12	11/12/24	<40	40	yes
R17	11/12/24	<40	40	yes
Receiver	***Date***	***Site Noise Level Contribution***	***Operational Criteria (dB(A))***	***Compliant***
EPL ID		**LAeq, 15 minute (dB(A))**	**Evening**	
R6	10/12/24	<35	35	yes
R8	10/12/24	<35	35	yes
R9	10/12/24	<36	36	yes
R12	10/12/24	<35	35	yes
R17	10/12/24	<35	35	yes
Receiver	***Date***	***Site Noise Level Contribution***	***Operational Criteria (dB(A))***	***Compliant***
EPL ID		**LAeq, 15 minute (dB(A))**	**Night**	
R6	10/12/24	<35	40	yes
R8	10/12/24	<35	40	yes
R9	10/12/24	<36	41	yes
R12	10/12/24	<35	40	yes
R17	10/12/24	<35	40	yes
Receiver	***Date***	***Site Noise Level Contribution***	***Operational Criteria (dB(A))***	***Compliant***
EPL ID		**LAeq, 1 minute (dB(A))**	**Night**	
R6	10/12/24	<52	52	yes
R8	10/12/24	<52	52	yes
R9	10/12/24	<52	52	yes
R12	10/12/24	<52	52	yes
R17	10/12/24	<52	52	yes

Date Sampled: 15/04/25
Date Received: 07/05/25
Meteorological Conditions: Wind speeds up to 4.6 m/s at 10m above ground level representative of noise enhancing meteorological conditions

Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))	Compliant
EPL ID		LAeq, 15 minute (dB(A))	Daytime	
R6	15/04/25	<40	40	yes
R8	15/04/25	<40	45	yes
R9	15/04/25	<40	45	yes
R12	15/04/25	<40	40	yes
R17	15/04/25	<40	40	yes
Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))	Compliant
EPL ID		LAeq, 15 minute (dB(A))	Evening	
R6	15/04/25	<35	35	yes
R8	15/04/25	<35	35	yes
R9	15/04/25	<36	36	no
R12	15/04/25	<35	35	no
R17	15/04/25	<35	35	yes
Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))	Compliant
EPL ID		LAeq, 15 minute (dB(A))	Night	
R6	15/04/25	<35	40	yes
R8	15/04/25	<35	40	yes
R9	15/04/25	<36	41	yes
R12	15/04/25	<35	40	yes
R17	15/04/25	<35	40	yes
Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))	Compliant
EPL ID		LAeq, 1 minute (dB(A))	Night	
R6	15/04/25	<52	57	yes
R8	15/04/25	<52	57	yes
R9	15/04/25	<52	57	yes
R12	15/04/25	<52	57	yes
R17	15/04/25	<52	57	yes

Date Sampled: 16/07/25
Date Received: 8/08/25
Meteorological Conditions: Wind speeds up to 4.6 m/s at 10m above ground level representative of noise enhancing meteorological conditions

Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))	Compliant
EPL ID		LAeq, 15 minute (dB(A))	Daytime	
R6	16/07/25	<40	40	yes
R8	16/07/25	<40	45	yes
R9	16/07/25	<40	45	yes
R12	16/07/25	<40	40	yes
R17	16/07/25	<40	40	yes

Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))	Compliant
EPL ID		LAeq, 15 minute (dB(A))	Evening	
R6	16/07/25	<35	35	yes
R8	16/07/25	<35	35	yes
R9	16/07/25	<36	36	no
R12	16/07/25	<35	35	no
R17	16/07/25	<35	35	yes
Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))	Compliant
EPL ID		LAeq, 15 minute (dB(A))	Night	
R6	16/07/25	<35	40	yes
R8	16/07/25	<35	40	yes
R9	16/07/25	<36	41	yes
R12	16/07/25	<35	40	yes
R17	16/07/25	<35	40	yes
Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))	Compliant
EPL ID		LAeq, 1 minute (dB(A))	Night	
R6	16/07/25	<52	57	yes
R8	16/07/25	<52	57	yes
R9	16/07/25	<52	57	yes
R12	16/07/25	<52	57	yes
R17	16/07/25	<52	57	yes

Date Sampled: 30/09/25
Date Received: 19/05/26
Meteorological Conditions: Wind speeds up to 3.8 m/s at 10m above ground level representative of noise enhancing meteorological conditions

Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))	Compliant
EPL ID		LAeq, 15 minute (dB(A))	Daytime	
R6	30/09/25	<40	40	yes
R8	30/09/25	<40	40	yes
R9	30/09/25	<40	40	yes
R12	30/09/25	<40	40	yes
R17	30/09/25	<40	40	yes
Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))	Compliant
EPL ID		LAeq, 15 minute (dB(A))	Evening	
R6	30/09/25	<35	40	yes
R8	30/09/25	<35	35	yes
R9	30/09/25	<36	41	yes
R12	30/09/25	<35	35	yes

R17	30/09/25	<35	40	yes
Receiver	***Date***	***Site Noise Level Contribution***	***Operational Criteria (dB(A))***	***Compliant***
EPL ID		**LAeq, 15 minute (dB(A))**	**Night**	
R6	30/09/25	<35	40	yes
R8	30/09/25	<35	40	yes
R9	30/09/25	<36	41	yes
R12	30/09/25	<35	40	yes
R17	30/09/25	<35	40	yes
Receiver	***Date***	***Site Noise Level Contribution***	***Operational Criteria (dB(A))***	***Compliant***
EPL ID		**LAeq, 1 minute (dB(A))**	**Night**	
R6	30/09/25	<52	57	yes
R8	30/09/25	<52	57	yes
R9	30/09/25	<52	57	yes
R12	30/09/25	<52	57	yes
R17	30/09/25	<52	57	yes

Date Sampled: 16/12/25
Date Received: 19/05/26
Meteorological Conditions: Wind speeds up to 3.4 m/s at 10m above ground level representative of noise enhancing meteorological conditions

Receiver	***Date***	***Site Noise Level Contribution***	***Operational Criteria (dB(A))***	***Compliant***
EPL ID		**LAeq, 15 minute (dB(A))**	**Daytime**	
R6	16/12/25	<40	40	yes
R8	16/12/25	<40	45	yes
R9	16/12/25	<40	40	yes
R12	16/12/25	<40	40	yes
R17	16/12/25	<40	40	yes
Receiver	***Date***	***Site Noise Level Contribution***	***Operational Criteria (dB(A))***	***Compliant***
EPL ID		**LAeq, 15 minute (dB(A))**	**Evening**	
R6	16/12/25	<35	35	yes
R8	16/12/25	<35	35	yes
R9	16/12/25	<36	41	yes
R12	16/12/25	<35	40	yes
R17	16/12/25	<35	35	yes
Receiver	***Date***	***Site Noise Level Contribution***	***Operational Criteria (dB(A))***	***Compliant***
EPL ID		**LAeq, 15 minute (dB(A))**	**Night**	
R6	16/12/25	<35	35	yes
R8	16/12/25	<35	40	yes
R9	16/12/25	<36	41	yes
R12	16/12/25	<35	40	yes

R17	16/12/25	<35	40	yes
Receiver	***Date***	***Site Noise Level Contribution***	***Operational Criteria (dB(A))***	***Compliant***
EPL ID		**LAeq, 1 minute (dB(A))**	**Night**	
R6	16/12/25	<52	52	yes
R8	16/12/25	<52	57	yes
R9	16/12/25	<52	57	yes
R12	16/12/25	<52	57	yes
R17	16/12/25	<52	57	yes

Date Sampled: 08/04/2026
Date Received: 19/05/2026
Meteorological Conditions: Wind speeds up to 3.3 m/s at 10m above ground level representative of noise enhancing meteorological conditions

Receiver	***Date***	***Site Noise Level Contribution***	***Operational Criteria (dB(A))***	***Compliant***
EPL ID		**LAeq, 15 minute (dB(A))**	**Daytime**	
R6	08/04/26	<40	40	yes
R8	08/04/26	<40	45	yes
R9	08/04/26	<40	40	yes
R12	08/04/26	<40	40	yes
R17	08/04/26	<40	40	yes
Receiver	***Date***	***Site Noise Level Contribution***	***Operational Criteria (dB(A))***	***Compliant***
EPL ID		**LAeq, 15 minute (dB(A))**	**Evening**	
R6	08/04/26	<35	40	yes
R8	08/04/26	<35	35	yes
R9	08/04/26	<36	41	yes
R12	08/04/26	<35	35	yes
R17	08/04/26	<35	40	yes
Receiver	***Date***	***Site Noise Level Contribution***	***Operational Criteria (dB(A))***	***Compliant***
EPL ID		**LAeq, 15 minute (dB(A))**	**Night**	
R6	08/04/26	<35	35	yes
R8	08/04/26	<35	35	yes
R9	08/04/26	<36	36	yes
R12	08/04/26	<35	35	yes
R17	08/04/26	<35	40	yes
Receiver	***Date***	***Site Noise Level Contribution***	***Operational Criteria (dB(A))***	***Compliant***
EPL ID		**LAeq, 1 minute (dB(A))**	**Night**	
R6	08/04/26	<52	52	yes
R8	08/04/26	<52	52	yes
R9	08/04/26	<52	52	yes

R12	08/04/26	<52	52	yes
R17	08/04/26	<52	57	yes

Date Sampled: 08/07/2026
Date Received: 06/08/2026
Meteorological Conditions: Wind speeds up to 0.5 m/s at 10m above ground level representative of noise enhancing meteorological conditions

Receiver	***Date***	***Site Noise Level Contribution***	***Operational Criteria (dB(A))***	***Compliant***
EPL ID		**LAeq, 15 minute (dB(A))**	**Daytime**	
R6	08/07/26	<40	40	yes
R8	08/07/26	<40	45	yes
R9	08/07/26	<40	40	yes
R12	08/07/26	<40	40	yes
R17	08/07/26	<40	40	yes
Receiver	***Date***	***Site Noise Level Contribution***	***Operational Criteria (dB(A))***	***Compliant***
EPL ID		**LAeq, 15 minute (dB(A))**	**Evening**	
R6	08/07/26	<35	40	yes
R8	08/07/26	<35	35	yes
R9	08/07/26	<36	41	yes
R12	08/07/26	<35	35	yes
R17	08/07/26	<35	40	yes
Receiver	***Date***	***Site Noise Level Contribution***	***Operational Criteria (dB(A))***	***Compliant***
EPL ID		**LAeq, 15 minute (dB(A))**	**Night**	
R6	08/07/26	<35	35	yes
R8	08/07/26	<35	35	yes
R9	08/07/26	<36	36	yes
R12	08/07/26	<35	35	yes
R17	08/07/26	<35	40	yes
Receiver	***Date***	***Site Noise Level Contribution***	***Operational Criteria (dB(A))***	***Compliant***
EPL ID		**LAeq, 1 minute (dB(A))**	**Night**	
R6	08/07/26	<52	52	yes
R8	08/07/26	<52	52	yes
R9	08/07/26	<52	52	yes
R12	08/07/26	<52	52	yes
R17	08/07/26	<52	57	yes

The assessment has identified that noise emissions generated by the mine were inaudible at all monitoring location. The contributions at all monitoring locations satisfied the consent conditions at their respective assessed receivers.

No low frequency analysis is required for any measurement period, therefore no low frequency penalties need to be applied to any measurement.

6. Correction Log

1. Method of monitoring: Dust Deposition Gauges

EPL ID	Month	Old Published data	Corrected/ Updated Data	Reasons for correction/ update	Update person	Date corrected data published
EPA ID No. 16 (Stores Paddock Hill)	Jul-24	2.09	2.85	incorrect calculation	R. Benny	02/06/2026
EPA ID No. 16 (Stores Paddock Hill)	Aug-24	4.02	2.9	incorrect calculation	R. Benny	02/06/2026
EPA ID No. 16 (Stores Paddock Hill)	Sep-24	6.44	3.08	incorrect calculation	R. Benny	02/06/2026
EPA ID No. 16 (Stores Paddock Hill)	Oct-24	3.04	2.81	incorrect calculation	R. Benny	02/06/2026
EPA ID No. 16 (Stores Paddock Hill)	Dec-24	4.21	2.78	incorrect calculation	R. Benny	02/06/2026
EPA ID No. 16 (Stores Paddock Hill)	Jan-25	0.54	2.52	incorrect calculation	R. Benny	02/06/2026
EPA ID No. 16 (Stores Paddock Hill)	Feb-25	3.07	2.54	incorrect calculation	R. Benny	02/06/2026
EPA ID No. 16 (Stores Paddock Hill)	Mar-25	2.87	2.47	incorrect calculation	R. Benny	02/06/2026
EPA ID No. 16 (Stores Paddock Hill)	Apr-25	2.67	2.6	incorrect calculation	R. Benny	02/06/2026
EPA ID No. 16 (Stores Paddock Hill)	May-25	0.98	2.64	incorrect calculation	R. Benny	02/06/2026
EPA ID No. 16 (Stores Paddock Hill)	Jul-25	3.56	3.44	incorrect calculation	R. Benny	02/06/2026
EPA ID No. 16 (Stores Paddock Hill)	Aug-25	3.79	3.46	incorrect calculation	R. Benny	02/06/2026
EPA ID No. 16 (Stores Paddock Hill)	Sep-25	3.78	3.47	incorrect calculation	R. Benny	02/06/2026
EPA ID No. 16 (Stores Paddock Hill)	Oct-25	3.68	3.38	incorrect calculation	R. Benny	02/06/2026
EPA ID No. 16 (Stores Paddock Hill)	Nov-25	4.27	3.99	incorrect calculation	R. Benny	02/06/2026
EPA ID No. 16 (Stores Paddock Hill)	Dec-25	4.59	4.2	incorrect calculation	R. Benny	02/06/2026
EPA ID No. 18 (Freddy's Hill)	Jul-24	1.07	3.34	incorrect calculation	R. Benny	02/06/2026
EPA ID No. 18 (Freddy's Hill)	Aug-24	1.65	3.37	incorrect calculation	R. Benny	02/06/2026

EPL ID	Month	Old Published data	Corrected/ Updated Data	Reasons for correction/ update	Update person	Date corrected data published
EPA ID No. 18 (Freddy's Hill)	Sep-24	1.16	3.45	incorrect calculation	R. Benny	02/06/2026
EPA ID No. 18 (Freddy's Hill)	Oct-24	2.43	1.58	incorrect calculation	R. Benny	02/06/2026
EPA ID No. 18 (Freddy's Hill)	Dec-24	2.46	3.6	incorrect calculation	R. Benny	02/06/2026
EPA ID No. 18 (Freddy's Hill)	Jan-25	0.77	3.03	incorrect calculation	R. Benny	02/06/2026
EPA ID No. 18 (Freddy's Hill)	Feb-25	1.52	2.86	incorrect calculation	R. Benny	02/06/2026
EPA ID No. 18 (Freddy's Hill)	Mar-25	3.64	2.93	incorrect calculation	R. Benny	02/06/2026
EPA ID No. 18 (Freddy's Hill)	Apr-25	3.42	1.84	incorrect calculation	R. Benny	02/06/2026
EPA ID No. 18 (Freddy's Hill)	May-25	2.91	1.97	incorrect calculation	R. Benny	02/06/2026
EPA ID No. 18 (Freddy's Hill)	Jul-25	2.94	2.78	incorrect calculation	R. Benny	02/06/2026
EPA ID No. 18 (Freddy's Hill)	Aug-25	3.87	2.89	incorrect calculation	R. Benny	02/06/2026
EPA ID No. 18 (Freddy's Hill)	Sep-25	3.81	2.91	incorrect calculation	R. Benny	02/06/2026
EPA ID No. 18 (Freddy's Hill)	Oct-25	3.85	3.04	incorrect calculation	R. Benny	02/06/2026
EPA ID No. 18 (Freddy's Hill)	Nov-25	4.04	3.24	incorrect calculation	R. Benny	02/06/2026
EPA ID No. 18 (Freddy's Hill)	Dec-25	3.71	3.47	incorrect calculation	R. Benny	02/06/2026
EPA ID No. 17 (Sub Station)	Jul-24	1.27	0.45	incorrect calculation	R. Benny	02/06/2026
EPA ID No. 17 (Sub Station)	Aug-24	1.24	0.88	incorrect calculation	R. Benny	02/06/2026
EPA ID No. 17 (Sub Station)	Sep-24	1.12	0.65	incorrect calculation	R. Benny	02/06/2026
EPA ID No. 17 (Sub Station)	Oct-24	1.27	3.26	incorrect calculation	R. Benny	02/06/2026
EPA ID No. 17 (Sub Station)	Dec-24	1.22	0.97	incorrect calculation	R. Benny	02/06/2026
EPA ID No. 17 (Sub Station)	Jan-25	1.07	0.19	incorrect calculation	R. Benny	02/06/2026
EPA ID No. 17 (Sub Station)	Feb-25	1.07	1.97	incorrect calculation	R. Benny	02/06/2026

EPL ID	Month	Old Published data	Corrected/ Updated Data	Reasons for correction/ update	Update person	Date corrected data published
EPA ID No. 17 (Sub Station)	Mar-25	1.18	1.98	incorrect calculation	R. Benny	02/06/2026
EPA ID No. 17 (Sub Station)	Apr-25	1.33	2.67	incorrect calculation	R. Benny	02/06/2026
EPA ID No. 17 (Sub Station)	May-25	1.2	1.04	incorrect calculation	R. Benny	02/06/2026
EPA ID No. 16 (Stores Paddock Hill)	Feb-26	4.79	4.71	incorrect calculation	R. Benny	22/06/2026
EPA ID No. 17 (Sub Station)	Feb-26	3.27	3.34	incorrect calculation	R. Benny	22/06/2026
EPA ID No. 18 (Freddy's Hill)	Feb-26	3.66	3.63	incorrect calculation	R. Benny	22/06/2026

2. Method of monitoring: Noise

EPL ID & Time	Date of monitoring	Old Published data | criteria	Corrected/ Updated Data | criteria	Reasons for correction/ update	Update person	Date corrected data published
R8 Daytime LAeq, 15 minute (dB(A))	30/09/2025	<40 | 45	<40 | 40	incorrect calculation	R. Benny	02/06/2026
R9 Daytime LAeq, 15 minute (dB(A))	30/09/2025	<40 | 45	<40 | 40	incorrect calculation	R. Benny	02/06/2026
R6 Evening LAeq, 15 minute (dB(A))	30/09/2025	<35 | 35	<35 | 40	incorrect calculation	R. Benny	02/06/2026
R9 Evening LAeq, 15 minute (dB(A))	30/09/2025	<40 | 36	<36 | 41	incorrect calculation	R. Benny	02/06/2026
R12 Evening LAeq, 15 minute (dB(A))	30/09/2025	<36 | 35	<35 | 35	incorrect calculation	R. Benny	02/06/2026
R17 Evening LAeq, 15 minute (dB(A))	30/09/2025	<35 | 35	<35 | 40	incorrect calculation	R. Benny	02/06/2026
R12 Night LAeq, 15 minute (dB(A))	30/09/2025	<36 | 40	<35 | 40	incorrect calculation	R. Benny	02/06/2026
R9 Daytime LAeq, 15 minute (dB(A))	16/12/2025	<40 | 45	<40 | 40	incorrect calculation	R. Benny	02/06/2026
R9 Evening LAeq, 15 minute (dB(A))	16/12/2025	<36 | 36	<36 | 41	incorrect calculation	R. Benny	02/06/2026
R12 Evening LAeq, 15 minute (dB(A))	16/12/2025	<35 | 35	<35 | 40	incorrect calculation	R. Benny	02/06/2026
R6 Night LAeq, 15 minute (dB(A))	16/12/2025	<35 | 40	<35 | 35	incorrect calculation	R. Benny	02/06/2026

EPL ID & Time	Date of monitoring	Old Published data | criteria	Corrected/ Updated Data | criteria	Reasons for correction/ update	Update person	Date corrected data published
R6 Night LAeq, 1 minute (dB(A))	16/12/2025	<52 | 57	<52 | 52	incorrect calculation	R. Benny	02/06/2026

END OF REPORT