

Monthly Environmental Monitoring Report Yancoal Mount Thorley Warkworth

February 2022

CONTENTS

1.0	INT	IRODUCTION	4
2.0	AIF	R QUALITY	4
2.1		Meteorological Monitoring	4
2.	.1.1	Rainfall	4
2.	.1.2	Wind Speed and Direction	4
2.2		Depositional Dust	6
2.3		Suspended Particulates	6
2.	.3.1	HVAS PM ₁₀ Results	6
2.	.3.2	TSP Results	7
2.	.3.3	Real Time PM_{10} Results	7
2.	.3.4	Real Time Alarms for Air Quality	7
3.0	WA	ATER QUALITY	8
3.1		Surface Water	8
3.2		HRSTS Discharge	8
3.3		Groundwater Monitoring	9
4.0	BLA	AST MONITORING	9
4.1		Blast Monitoring Results	9
5.0	NO	DISE	13
5.1		Attended Noise Monitoring Results	13
5.1.1	1	WML Noise Assessment	13
5.1.3	3	MTO Noise Assessment	14
5.1.4	4	NPfI Low Frequency Assessment	15
5.2		Noise Management Measures	18
6.0	OP	ERATIONAL DOWNTIME	18
7.0 REI	НАВ	BILITATION	18
8.0 EN	VIR	ONMENTAL INCIDENTS	19
9.0 CO	MP	LAINTS	19
Appen	dix	A: Meteorological Data	20

Figures

Figure 1: Rainfall Trend YTD	4
Figure 2: Charlton Ridge Wind Rose – February 2022	4
Figure 3: Air Quality Monitoring Locations	5
Figure 4: Depositional Dust – February 2022	6
Figure 5: Individual PM10 Results – February 2022	6
Figure 6: Annual Average PM10 – February 2022	7
Figure 7: Annual Average Total Suspended Particulates – February 2022	7
Figure 8: Real Time PM10 daily 24hr average (line graphs) and YTD annual average (column graphs) – February	8
Figure 9: Abbey Green Blast Monitoring Results – February 2022	10
Figure 10: Bulga Village Blast Monitoring Results – February 2022	10
Figure 11: MTIE Blast Monitoring Results – February 2022	10
Figure 12: Wollemi Peak Road Blast Monitoring Results – February 2022	10
Figure 13: Wambo Road Blast Monitoring Results – February 2022	11
Figure 14: Warkworth Blast Monitoring Results – February 2022	11
Figure 15: MTW Blast Monitoring Location Plan	12
Figure 16: Noise Monitoring Location Plan	17
Figure 17: Operational Downtime by Equipment Type –February 2022	18
Figure 18: Rehabilitation YTD - February 2022	19

Tables

Table 1: Monthly Rainfall MTW	4
Table 2: Blasting Limits	9
Table 3: L _{Aeq, 15 minute} Warkworth Impact Assessment Criteria – February 2022	13
Table 4: LA1, 1 minute Warkworth - Impact Assessment Criteria – February 2022	13
Table 5: LAeq, 15minute Mount Thorley - Impact Assessment Criteria – February 2022	14
Table 6: L _{A1, 1Minute} Mount Thorley - Impact Assessment Criteria – February 2022	14
Table 7: Warkworth Low Frequency Noise Assessment – February 2022	15
Table 8: Mount Thorley Operations Low Frequency Noise Assessment – February 2022	16
Table 9: Supplementary Attended Noise Monitoring Data – February 2022	18
Table 10: Complaints Summary YTD	19
Table 11: Meteorological Data – Charlton Ridge Meteorological Station – February 2022	21

Revision History

Version No.	Version Details	Document Status	Date
1.0	Environment and Community Advisor	Final	20/05/2022

1.0 INTRODUCTION

This report has been compiled to provide a monthly summary of environmental monitoring results for Mount Thorley Warkworth (MTW). This report includes all monitoring data collected for the period 1 February to 28 February 2022.

2.0 AIR QUALITY

2.1 Meteorological Monitoring

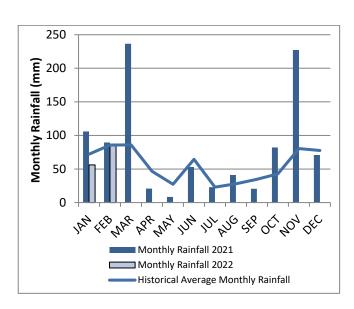
Meteorological data is collected at MTW's 'Charlton Ridge' meteorological station (refer to **Figure 3**: Air Quality Monitoring Locations).

2.1.1 Rainfall

Table 1: Monthly Rainfall MTW

Rainfall for the reporting period is summarised in **Table 1**. The year-to-date monthly rainfall totals, 2022 monthly rainfall totals and historical average monthly rainfall trend are shown in **Figure 1**.

2022Monthly Rainfall
(mm)Cumulative
Rainfall (mm)February87143



Note: The historical average monthly rainfall is calculated from 2007 to 2021 monthly totals

Figure 1: Rainfall Trend YTD

2.1.2 Wind Speed and Direction

Winds from the south were dominant during the reporting period as shown in **Figure 2.**

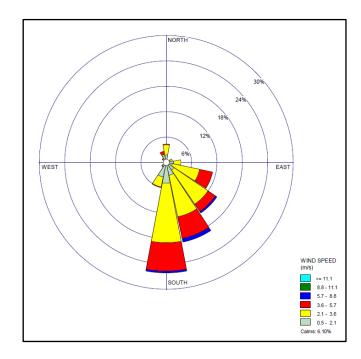


Figure 2: Charlton Ridge Wind Rose – February 2022

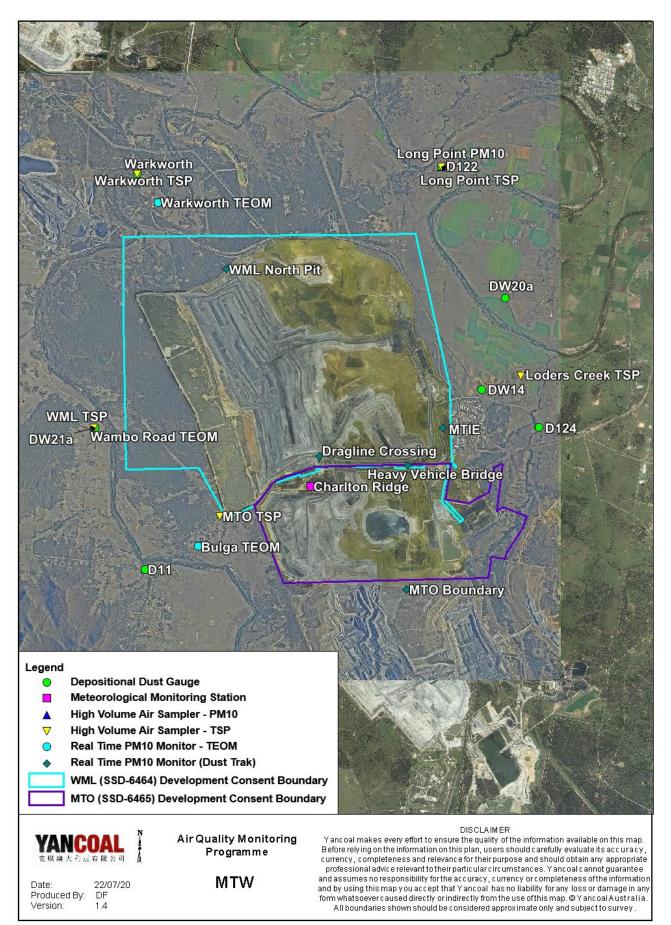


Figure 3: Air Quality Monitoring Locations

2.2 Depositional Dust

To monitor air quality, MTW operates and maintains a network of seven depositional dust gauges, situated on private and mine owned land surrounding MTW.

During the reporting period the Warkworth monitor recorded a monthly result above the long-term impact assessment criteria of 4.0 g/m²per month. There is no evidence to suggest that the Warkworth result is contaminated. Accordingly, the result will be included in the annual average calculation.

Figure 4 displays insoluble solids results from depositional dust gauges during the reporting period compared against the year-to-date average and the annual impact assessment criteria.

An annual assessment of MTW's compliance with the Long-Term Impact Assessment Criteria will be provided in the 2022 Annual Review Report.

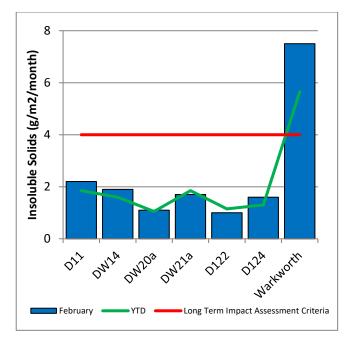


Figure 4: Depositional Dust – February 2022

2.3 Suspended Particulates

Suspended particulates are measured by a network of High Volume Air Samplers (HVAS) measuring Total Suspended Particulates (TSP) and Particulate Matter $<10\mu$ m (PM₁₀). The location of these monitors can be found in **Figure 3**. Each HVAS was run for 24 hours on a six-day cycle in accordance with EPA requirements.

2.3.1 HVAS PM₁₀ Results

Figure 5 shows the individual PM_{10} results at each monitoring station against the short-term impact assessment criteria of $50\mu g/m^3$.

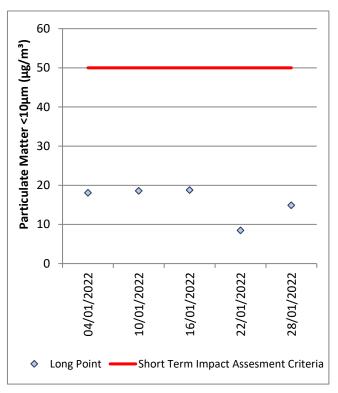


Figure 5: Individual PM10 Results – February 2022

Figure 6 shows the annual average PM10 result against the long term impact assessment criteria.

An assessment of MTW's compliance with the Long-Term Impact Assessment Criteria will be provided in the 2022 Annual Review Report.

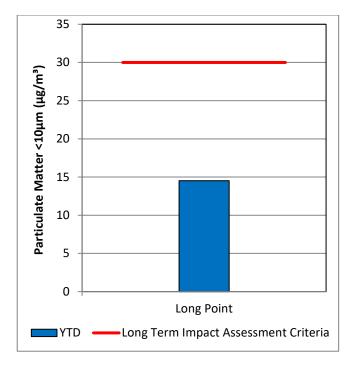


Figure 6: Annual Average PM₁₀ – February 2022

2.3.2 TSP Results

Figure 7 shows the annual average TSP results compared against the long-term impact assessment criteria of $90\mu g/m^3$.

An assessment of MTW's compliance with the Long-Term Impact Assessment Criteria will be provided in the 2022 Annual Review Report.

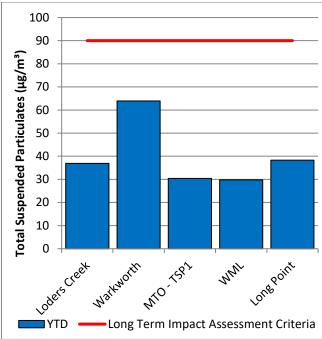


Figure 7: Annual Average Total Suspended Particulates – February 2022

2.3.3 Real Time PM₁₀ Results

MTW maintains a network of real time PM₁₀ monitors. The real time air quality monitoring stations continuously log information and transmit data to a central database, generating internal alerts when particulate matter levels exceed internal trigger limits.

Results for real time dust sampling are shown in Figure 8, including the daily 24-hour average PM_{10} result and the annual PM_{10} average.

Data was not available on 13 and 14 February 2022 from the Wambo Road monitor and from 12 to 14 February from the Warkworth Monitor due to equipment issues.

2.3.4 Real Time Alarms for Air Quality

During February, the real time monitoring system generated 38 automated air quality related alerts, including 11 alerts for adverse meteorological conditions and 27 alerts for elevated PM_{10} levels.

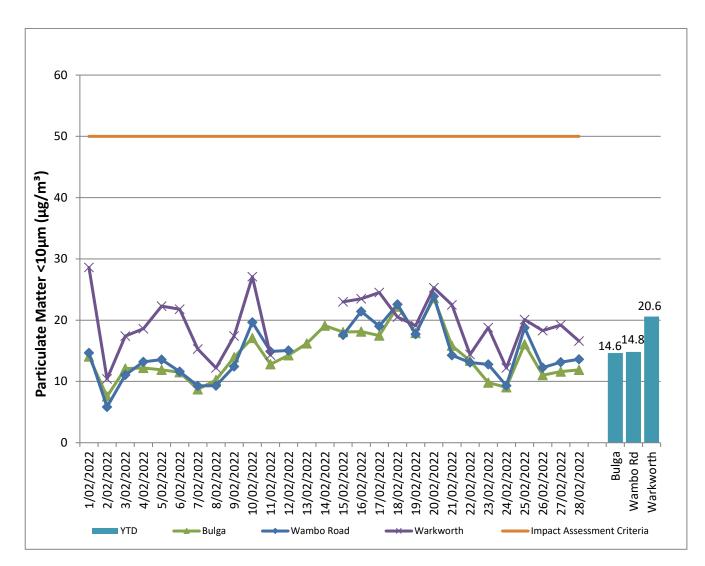


Figure 8: Real Time PM₁₀ daily 24hr average (line graphs) and YTD annual average (column graphs) – February

3.0 WATER QUALITY

MTW maintains a network of surface water and groundwater monitoring sites.

3.1 Surface Water

Monitoring is conducted at mine site dams and surrounding natural watercourses.

Surface water courses are sampled on a monthly or quarterly sampling regime. Water quality is evaluated through the parameters of pH, Electrical Conductivity (EC) and Total Suspended Solids (TSS). The Hunter River and the Wollombi Brook are sampled both upstream and downstream of mining operations, to record background water quality and to monitor the potential impact of mining on the river system. Other Hunter River tributaries are also monitored.

Results of monitoring are reported quarterly, next available in the March 2022 report.

3.2 HRSTS Discharge

MTW participates in the Hunter River Salinity Trading Scheme (HRSTS), allowing discharge from licensed discharge points located at Dam 1N and Dam 9S. Discharges can only take place subject to HRSTS regulations.

During the reporting month no water was discharged under the HRSTS.

3.3 Groundwater Monitoring

Groundwater monitoring is undertaken on a quarterly basis in accordance with the MTW Groundwater Monitoring Programme.

Groundwater results are reported quarterly, next available in the March 2022 report.

4.0 BLAST MONITORING

MTW have a network of six blast monitoring units. These are located at nearby privately owned residences and function as regulatory compliance monitors.

The location of these monitors can be found in Figure 15.

4.1 Blast Monitoring Results

During February 2022, 16 blasts were initiated at MTW. **Figure 9** to **Figure 14** show the blast monitoring results for the reporting period against the impact assessment criteria. The criteria are summarised in **Table 2**.

Table 2: Blasting Limits

Airblast Overpressure (dB(L))	Comments
115	5% of the total number of blasts in a 12 month period at WML or MTO
120	0%
Ground Vibration (mm/s)	Comments
Ground Vibration (mm/s)	Comments 5% of the total number of blasts in a 12 month period at WML or MTO

During the reporting period one blast exceeded the 120 dB(L) threshold for airblast overpressure at the Warkworth monitoring location and was reported to the Department of Planning and Environment and the Environment Protection Authority on 24 February 2022 and investigated (refer to section 8.0 below). One blast also exceeded the 115dB(L) threshold for airblast overpressure at the MTIE monitoring location. No blast exceeded the 5mm/s criteria for ground vibration.

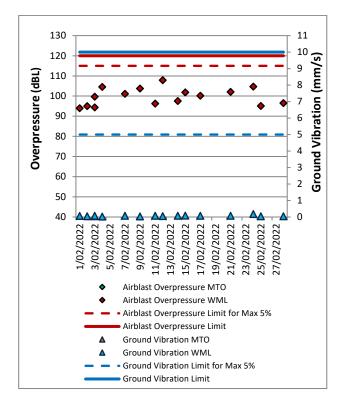


Figure 9: Abbey Green Blast Monitoring Results – February 2022

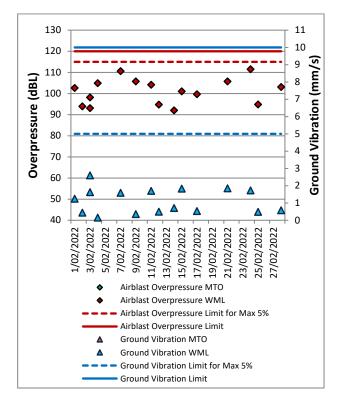


Figure 10: Bulga Village Blast Monitoring Results – February 2022

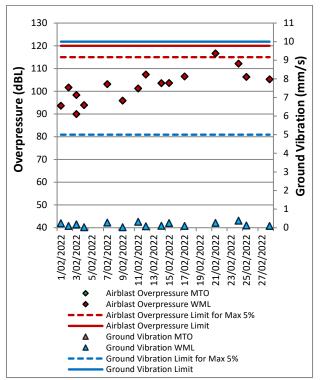


Figure 11: MTIE Blast Monitoring Results – February 2022

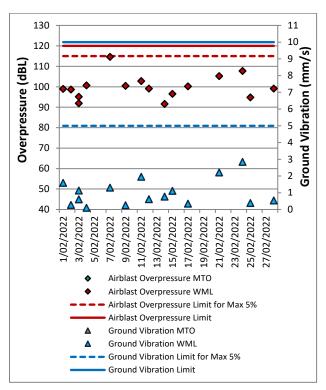
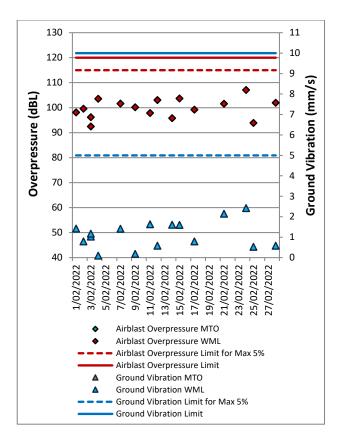


Figure 12: Wollemi Peak Road Blast Monitoring Results – February 2022



٥ 10 8 0 10 8 0 10 8 6 01 **Ground Vibration (mm/s)** 120 Overpressure (dBL) 110 • 100 90 80 Δ 70 Δ 60 2 Δ 50 1 4 Δ 0 40 1/02/2022 3/02/2022 5/02/2022 7/02/2022 9/02/2022 15/02/2022 17/02/2022 21/02/2022 23/02/2022 25/02/2022 27/02/2022 11/02/2022 13/02/2022 19/02/2022 Airblast Overpressure MTO Airblast Overpressure WML Airblast Overpressure Limit for Max 5% Airblast Overpressure Limit Ground Vibration MTO Ground Vibration WML Ground Vibration Limit for Max 5% Ground Vibration Limit

11

130

Figure 13: Wambo Road Blast Monitoring Results – February 2022

Figure 14: Warkworth Blast Monitoring Results – February 2022

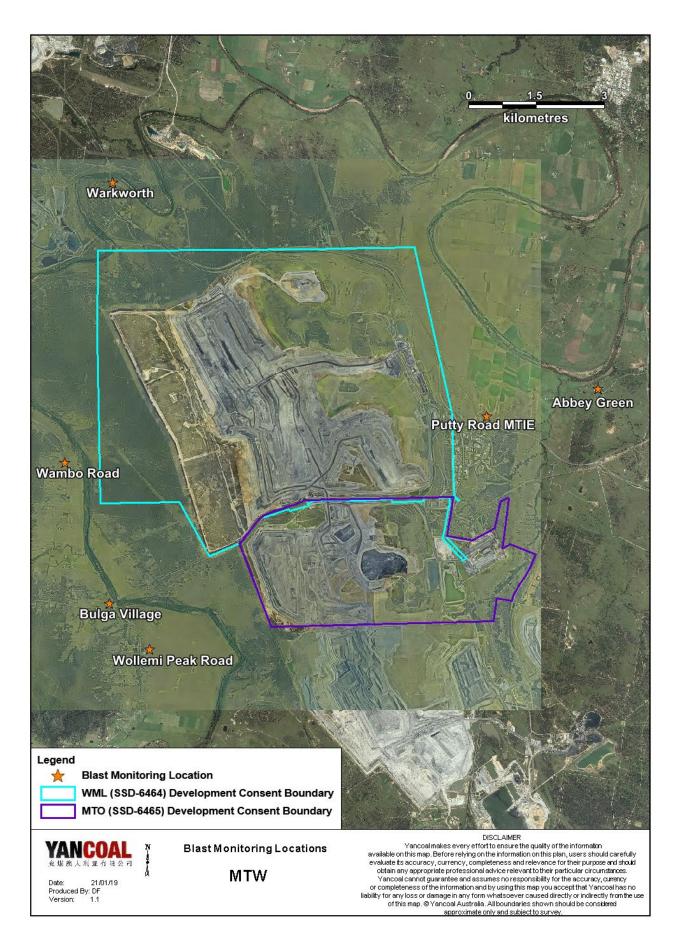


Figure 15: MTW Blast Monitoring Location Plan

5.0 NOISE

Routine attended noise monitoring is carried out in accordance with the MTW Noise Management Plan. A review against EIS predictions will be reported in the Annual Review. The purpose of the noise surveys is to quantify and describe the acoustic environment around the site and compare results with specified limits. Real time noise monitoring also occurs at five sites surrounding MTW. Noise monitoring locations are displayed in Figure 16.

5.1 **Attended Noise Monitoring Results**

Attended monitoring was conducted at receiver locations surrounding MTW on the night of 1 February 2022. All measurements complied with the relevant criteria. Results are detailed in Table 3 to Table 6.

5.1.1 WML Noise Assessment

Compliance assessments undertaken against the WML noise criteria are presented in Tables 3 and 4.

Table 3: Laeg. 15 minute Warkworth Impact Assessment Criteria – February 2022

Location	Date and Time	Wind Speed (m/s)	Stability Class	Criterion dB(A)	Criterion Applies? ¹	WML L _{Aeq} dB ^{2,3,4}	Exceedance ^{3,5}
Bulga RFS	2/02/2022 0:04	0.2	F	37	Yes	IA	NA
Bulga Village	1/02/2022 22:51	0.2	D	38	Yes	<25	NA
Gouldsville	1/02/2022 21:28	0.2	E	38	Yes	<30	NA
Inlet Rd	1/02/2022 21:45	0.2	D	37	Yes	<25	NA
Inlet Rd West	1/02/2022 21:11	0.2	F	35	Yes	IA	NA
Long Point	1/02/2022 21:01	0.2	E	35	Yes	IA	NA
South Bulga	2/02/2022 0:55	0.3	F	35	Yes	IA	NA
Wambo Road	1/02/2022 22:24	0.2	E	38	Yes	<25	NA

Notes:

1. Noise criteria apply during all meteorological conditions except the following: during periods of rain or hail; average wind speed at microphone height exceeds 5 m/s; wind speeds greater than 3 m/s measured at 10 metres above ground level; stability category F temperature inversion conditions and wind speeds greater than 2m/s at 10m above ground level; or stability category G temperature inversion conditions. Criterion may or may not apply due to rounding of meteorological data values;

2. Site-only LAeq, 15minute attributed to WML, including modifying factors if applicable;

3. Bold results in red indicate exceedance of relevant criterion: and

4. NA in exceedance column means atmospheric conditions outside conditions specified in consent, therefore criterion was not applicable.

Table 4: LA1, 1 minute Warkworth - Impact Assessment Criteria – February 2022

Location	Date and Time	Wind Speed (m/s)	Stability Class	Criterion dB(A)	Criterion Applies? ¹	WML L _{A1, 1min} dB ^{2,3,4}	Exceedance ^{3,5}
Bulga RFS	2/02/2022 0:04	0.2	F	47	Yes	IA	NA
Bulga Village	1/02/2022 22:51	0.2	D	48	Yes	<25	NA
Gouldsville	1/02/2022 21:28	0.2	E	48	Yes	36	NA
Inlet Rd	1/02/2022 21:45	0.2	D	47	Yes	<25	NA
Inlet Rd West	1/02/2022 21:11	0.2	F	45	Yes	IA	NA
Long Point	1/02/2022 21:01	0.2	E	45	Yes	IA	NA
South Bulga	2/02/2022 0:55	0.3	F	45	Yes	IA	NA
Wambo Road	1/02/2022 22:24	0.2	E	48	Yes	<25	NA

Notes.

1. Noise criteria apply during all meteorological conditions except the following: during periods of rain or hail; average wind speed at microphone height exceeds 5 m/s; wind speeds greater than 3 m/s measured at 10 metres above ground level; stability category F temperature inversion conditions and wind speeds greater than 2m/s at 10m above ground level; or stability category G temperature inversion conditions. Criterion may or may not apply due to rounding of meteorological data values;

Site-only LA1,1minute attributed to WML;
 Bold results in red indicate exceedance of relevant criterion; and

4. NA in exceedance column means atmospheric conditions outside conditions specified in consent, therefore criterion was not applicable.

5.1.3 MTO Noise Assessment

Location	Date and Time	Wind Speed (m/s)	Stability Class	Criterion dB	Criterion Applies? ¹	MTO L _{Aeq} dB ^{2,3,4}	Exceedance ^{3,!}
Bulga RFS	2/02/2022 0:04	0.2	F	37	Yes	<25	NA
Bulga Village	1/02/2022 22:51	0.2	D	38	Yes	<25	NA
Gouldsville	1/02/2022 21:28	0.2	E	35	Yes	IA	NA
Inlet Rd	1/02/2022 21:45	0.2	D	37	Yes	IA	NA
Inlet Rd West	1/02/2022 21:11	0.2	F	35	Yes	IA	NA
Long Point	1/02/2022 21:01	0.2	E	35	Yes	IA	NA
South Bulga	2/02/2022 0:55	0.3	F	36	Yes	<25	NA
Wambo Road	1/02/2022 22:24	0.2	E	38	Yes	IA	NA

Table 5: LAeg. 15minute Mount Thorley - Impact Assessment Criteria – February 2022

Compliance assessments undertaken against the MTO noise criteria are presented in Table 5 and 6.

Notes:

1. Noise criteria apply during all meteorological conditions except the following: during periods of rain or hail; average wind speed at microphone height exceeds 5 m/s; wind speeds greater than 3 m/s measured at 10 metres above ground level; stability category F temperature inversion conditions and wind speeds greater than 2m/s at 10m above ground level; or stability category G temperature

inversion conditions. Criterion may or may not apply due to rounding of meteorological data values; 2. Site-only LAeq, 15minute attributed to MTO, including modifying factors if applicable;

3. Bold results in red indicate exceedance of relevant criterion; and

4. NA in exceedance column means atmospheric conditions outside conditions specified in consent, therefore criterion was not applicable.

Table 6: LA1, 1Minute Mount Thorley - Impact Assessment Criteria – February 2022

Location	Date and Time	Wind Speed (m/s)	Stability Class	Criterion dB	Criterion Applies? ¹	MTO L _{A1, 1min} dB ^{2,3,4}	Exceedance ^{3,5}
Bulga RFS	2/02/2022 0:04	0.2	F	47	Yes	<25	NA
Bulga Village	1/02/2022 22:51	0.2	D	48	Yes	32	NA
Gouldsville	1/02/2022 21:28	0.2	E	45	Yes	IA	NA
Inlet Rd	1/02/2022 21:45	0.2	D	47	Yes	IA	NA
Inlet Rd West	1/02/2022 21:11	0.2	F	45	Yes	IA	NA
Long Point	1/02/2022 21:01	0.2	E	45	Yes	IA	NA
South Bulga	2/02/2022 0:55	0.3	F	46	Yes	32	NA
Wambo Road	1/02/2022 22:24	0.2	E	48	Yes	IA	NA

Notes:

1. Noise criteria apply during all meteorological conditions except the following: during periods of rain or hail; average wind speed at microphone height exceeds 5 m/s; wind speeds greater than 3 m/s measured at 10 metres above ground level; stability category F temperature inversion conditions and wind speeds greater than 2m/s at 10m above ground level; or stability category G temperature inversion conditions. Criterion may or may not apply due to rounding of meteorological data values;

2. Site-only LA1, 1minute attributed to MTO;

3. Bold results in red indicate exceedance of relevant criterion: and

4. NA in exceedance column means atmospheric conditions outside conditions specified in consent, therefore criterion was not applicable.

5.1.4 NPfI Low Frequency Assessment

In accordance with the requirements of the EPA's Noise Policy for Industry (NPfI), the applicability of the low frequency modification factor corrections has been assessed. There were no noise measurements taken during the reporting period which required the penalty to be applied. The WML assessment for low frequency noise is shown in **Table 7** and the MTO assessment for low frequency noise is shown in **Table 8**: Mount Thorley Operations Low Frequency Noise Assessment –

Location	Date and Time	Measured WML LAeq dB ¹	Criterion Applies?	Intermittency Modifying Factor?	Tonality Modifying Factor?	Frequency of Tonality ²	Low- frequency Modifying Factor?	Maximum Exceedance of Reference Spectrum ^{2,3}	Penalty dB ³	Exceedance ²
Bulga RFS	2/02/2022 0:04	IA	Yes	No	No	No	No	NA	Nil	NA
Bulga Village	1/02/2022 22:51	<25	Yes	No	No	No	No	NA	Nil	NA
Gouldsville	1/02/2022 21:28	<30	Yes	No	No	No	No	NA	Nil	NA
Inlet Rd	1/02/2022 21:45	<25	Yes	No	No	No	No	NA	Nil	NA
Inlet Rd West	1/02/2022 21:11	IA	Yes	No	No	No	No	NA	Nil	NA
Long Point	1/02/2022 21:01	IA	Yes	No	No	No	No	NA	Nil	NA
South Bulga	2/02/2022 0:55	IA	Yes	No	No	No	No	NA	Nil	NA
Wambo Road	1/02/2022 22:24	<25	Yes	No	No	No	No	NA	Nil	NA

Table 7: Warkworth Low Frequency Noise Assessment – February 2022

Notes:

1. NA denotes 'not applicable'; and

2. Bold results indicate that application of NPfI modifying factor/s is required.

Table 8: Mount Thorle	y Operations Lo	w Frequency Noise	Assessment – February 2022
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Location	Date and Time	Measured WML LAeq dB ¹	Criterion Applies?	Intermittency Modifying Factor?	Tonality Modifying Factor?	Frequency of Tonality ²	Low-frequency Modifying Factor?	Maximum Exceedance of Reference Spectrum ^{2,3}	Penalty dB ³	Exceedance ²
Bulga RFS	2/02/2022 0:04	<25	Yes	No	No	No	No	NA	Nil	NA
Bulga Village	1/02/2022 22:51	<25	Yes	No	No	No	No	NA	Nil	NA
Gouldsville	1/02/2022 21:28	IA	Yes	No	No	No	No	NA	Nil	NA
Inlet Rd	1/02/2022 21:45	IA	Yes	No	No	No	No	NA	Nil	NA
Inlet Rd West	1/02/2022 21:11	IA	Yes	No	No	No	No	NA	Nil	NA
Long Point	1/02/2022 21:01	IA	Yes	No	No	No	No	NA	Nil	NA
South Bulga	2/02/2022 0:55	<25	Yes	No	No	No	No	NA	Nil	NA
Wambo Road	1/02/2022 22:24	IA	Yes	No	No	No	No	NA	Nil	NA

Notes:

NA denotes 'not applicable'; and
 Bold results indicate that application of NPfI modifying factor/s is required.

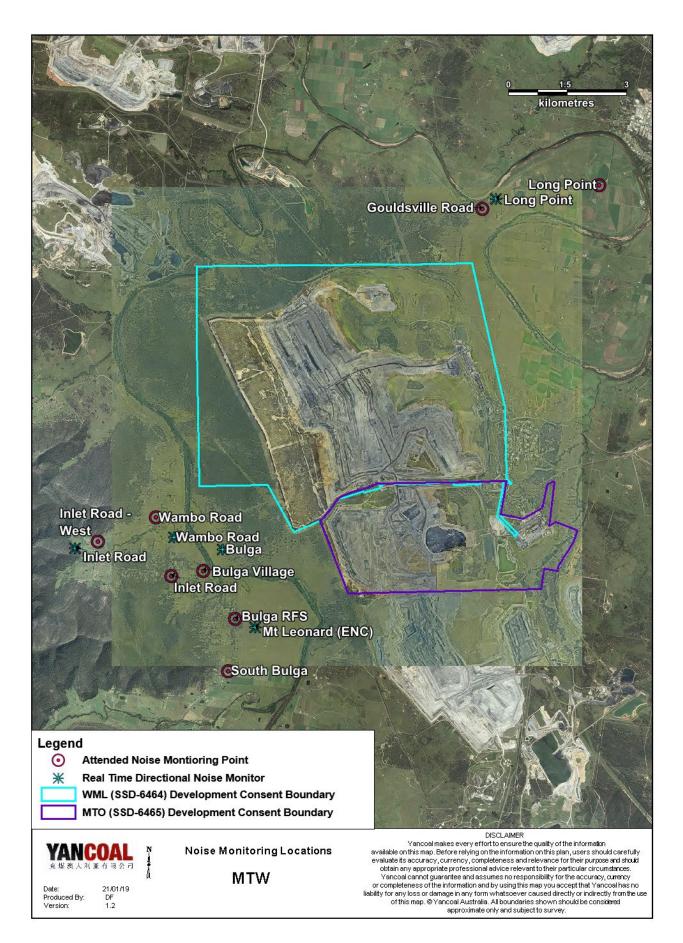


Figure 16: Noise Monitoring Location Plan

5.2 Noise Management Measures

A program of targeted supplementary attended noise monitoring is in place at MTW, supported by the realtime directional monitoring network and ensuring the highest level of noise management is maintained. The supplementary program is undertaken by MTW personnel and involves:

- Routine inspections from both inside and outside the mine boundary;
- Routine and as-required handheld noise assessments (undertaken in response to noise alarm and/or community complaint), comparing measured levels against consent noise limits; and
- Validation monitoring following operational modifications to assess the adequacy of the modifications.

Where a noise assessment identifies noise emissions which are exceeding the relevant noise limit(s) for any particular residence, modifications will be made to ensure that the noise event is resolved within 75 minutes of identification. The actions taken are commensurate with the nature and severity of the noise event, but can include:

- Changing the haul route to a less noise sensitive haul;
- Changing dump locations (in-pit or less exposed dump option);
- Reducing equipment numbers;
- Shut down of task; or
- Site shut down.

A summary of these assessments undertaken during February are provided in **Table 9**.

Table 9: Supplementary Attended Noise Monitoring Data – February 2022

No. of	No. of	No. of nights	% greater	
assessments	assessments >	where		
	trigger	assessments	than	
		> trigger	trigger	

Note: Measurements are taken under all meteorological conditions, including conditions under which the consent noise criteria do not apply.

6.0 OPERATIONAL DOWNTIME

During February, a total of 31 hours of equipment downtime was logged in response to environmental events such as dust, noise and adverse meteorological conditions. Operational downtime by equipment type is shown in **Figure 17**.

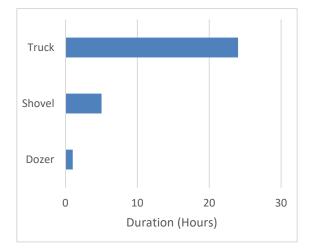


Figure 17: Operational Downtime by Equipment Type – February 2022

7.0 REHABILITATION

During February 2022, 7.06 Ha of land was released and 0.37 Ha was bulk shaped. No land was topsoiled, composted or rehabilitated.

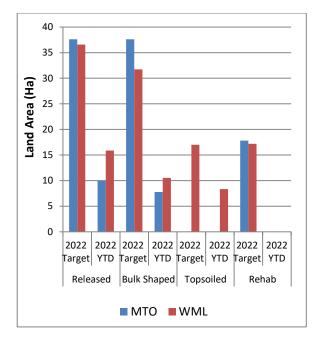


Figure 18: Rehabilitation YTD - February 2022

8.0 ENVIRONMENTAL INCIDENTS

There was one environmental incident recorded during the reporting period.

On the 24 February 2022, one blast event exceeded the 120dB(L) threshold for airblast overpressure at the Warkworth blast monitor. The exceedance was reported to the Department of Planning and Environment (DPE) and to the Environment Protection Authority (EPA) on 24 February 2022. A written report was also provided to DPE and to the EPA for this blast which noted preliminary analysis indicates that elevated airblast overpressure above the maximum limit in development consent SSD-6464 may have been caused by the effects of meteorology, which may have differed to the predicted meteorological effects. No blasts exceeded the 5mm/s threshold for ground vibration.

9.0 COMPLAINTS

13 complaints were received during the reporting period. Details of these complaints are shown in **Table 10** below.

	Noise	Dust	Blast	Lighting	Other	Total
January	2	1	4	0	0	7
February	7	0	5	0	1	13
March						
April						
May						
June						
July						
August						
September						
October						
November						
December						
Total	9	1	9	0	1	20

Table 10: Complaints Summary YTD

Appendix A: Meteorological Data

Table 11: Meteorological Data –	Charlton Ridge Meteorological	Station – February 2022

Date	Air Temperature Maximum (°C)	Air Temperature Minimum (°C)	Relative Humidity Maximum (%)	Relative Humidity Minimum (%)	Wind Direction Average (°)	Wind Speed Average (m/sec)	Rainfall(mm)
1/02/2022	34	16	98	42	207	0.9	5.6
2/02/2022	25	17	98	80	205	1.9	7.2
3/02/2022	24	15	93	48	175	2.8	0.2
4/02/2022	24	11	98	44	168	4.2	7.0
5/02/2022	25	10	96	41	164	4.1	3.0
6/02/2022	24	13	98	48	163	4.4	3.2
7/02/2022	26	11	97	43	168	3.9	1.0
8/02/2022	27	13	93	41	165	2.1	0.0
9/02/2022	33	9	98	19	189	1.6	0.0
10/02/2022	35	11	87	21	198	1.8	0.0
11/02/2022	31	14	96	38	170	3.3	2.2
12/02/2022	26	13	93	41	158	3.3	0.0
13/02/2022	27	12	94	36	150	2.4	0.0
14/02/2022	31	9	93	34	143	2.4	0.0
15/02/2022	31	13	92	32	148	2.3	0.0
16/02/2022	30	12	91	31	134	2.3	0.0
17/02/2022	36	16	95	25	236	2.1	2.0
18/02/2022	35	17	96	30	181	2.0	0.2
19/02/2022	25	14	99	51	145	2.9	10.0
20/02/2022	32	12	94	38	162	1.8	0.0
21/02/2022	33	15	98	35	222	2.5	10.0
22/02/2022	27	13	99	60	166	2.9	21.0
23/02/2022	29	15	95	51	139	2.5	0.2
24/02/2022	27	16	98	71	136	2.3	6.6
25/02/2022	28	16	98	54	141	2.6	0.8
26/02/2022	26	15	96	62	139	2.8	0.8
27/02/2022	27	14	98	56	145	2.5	3.8
28/02/2022	27	14	98	55	138	2.7	2.0