



# Monthly Environmental Monitoring Report Yancoal Mount Thorley Warkworth May 2022

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#### **Revision History**

Version No.	Version Details	Document Status	Date
1.1	Environment and Community Advisor	Final	01/08/2022

## **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 May to 31 May 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

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**.

#### 2.1.2 Wind Speed and Direction

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

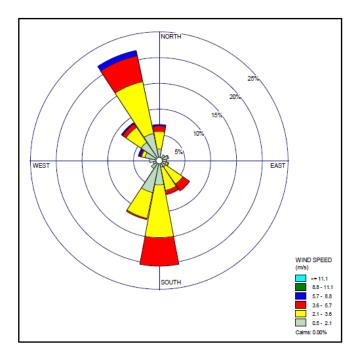
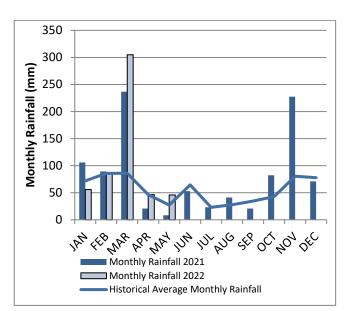


Figure 2: Charlton Ridge Wind Rose – May 2022

#### Table 1: Monthly Rainfall MTW

2022	Monthly Rainfall (mm)	Cumulative Rainfall (mm)		
May	46	540.2		



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

#### Figure 1: Rainfall Trend YTD

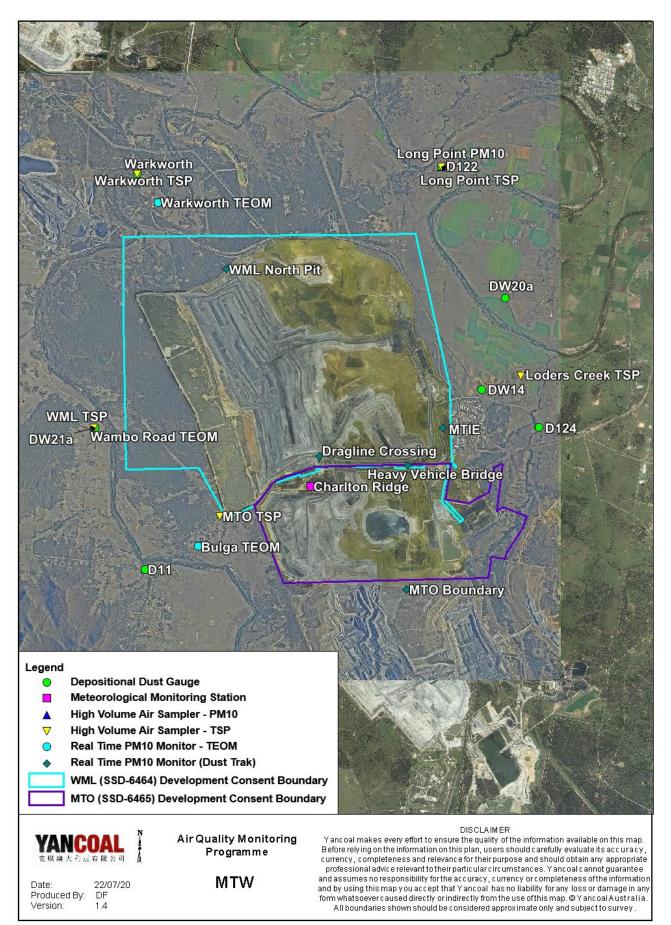


Figure 3: Air Quality Monitoring Locations

#### 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/m<sup>2</sup>per 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.

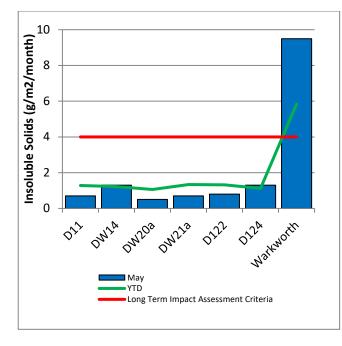


Figure 4: Depositional Dust – May 2022

#### 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 (PM<sub>10</sub>). 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 PM<sub>10</sub> Results

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

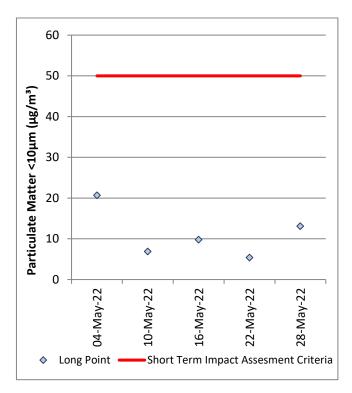
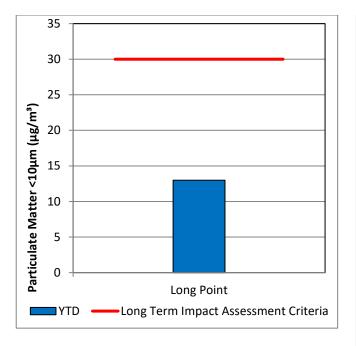


Figure 5: Individual PM10 Results - May 2022

**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.





## 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.

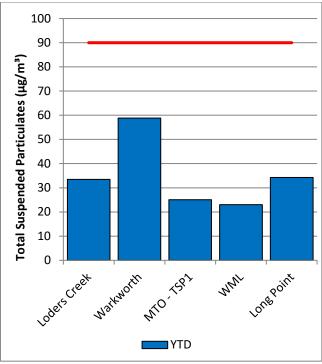


Figure 7: Annual Average Total Suspended Particulates – May 2022

#### 2.3.3 Real Time PM<sub>10</sub> Results

MTW maintains a network of real time PM<sub>10</sub> 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 18 May 2022 from the Wambo Road monitor, or on 25 and 26 May from the Warkworth monitor due to equipment issues.

#### 2.3.4 Real Time Alarms for Air Quality

During May, the real time monitoring system generated 15 automated air quality related alerts for elevated  $PM_{10}$  levels.

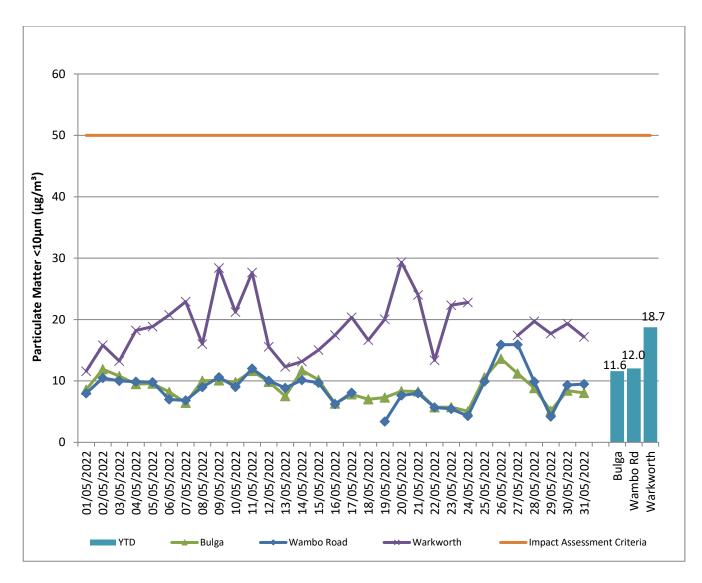


Figure 8: Real Time PM<sub>10</sub> daily 24hr average (line graphs) and YTD annual average (column graphs) – May 2022

## 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 June 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 June 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 May 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)	<b>Comments</b> 5% of the total number of blasts in a 12 month period at WML or MTO

During the reporting period one blast exceeded the 115dB(L) threshold for airblast overpressure at the Abbey Green monitoring location. No blast exceeded the 5mm/s criteria for ground vibration.

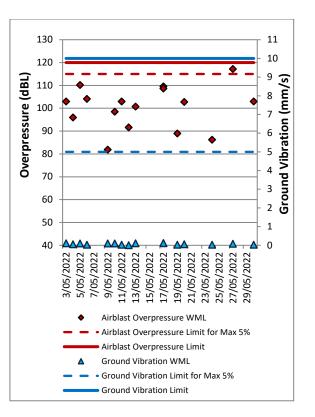


Figure 9: Abbey Green Blast Monitoring Results – May 2022

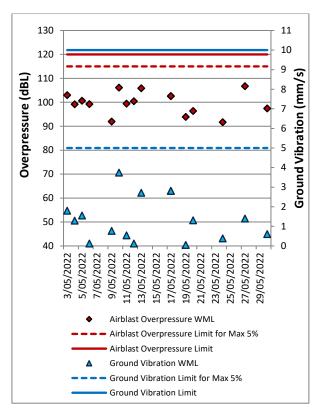


Figure 10: Bulga Village Blast Monitoring Results - May 2022

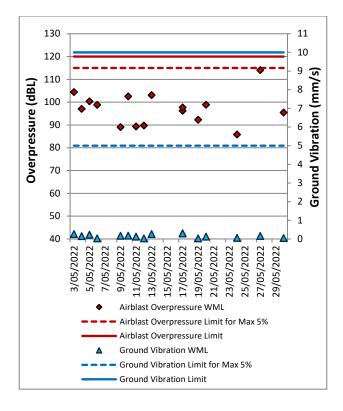


Figure 11: MTIE Blast Monitoring Results – May 2022

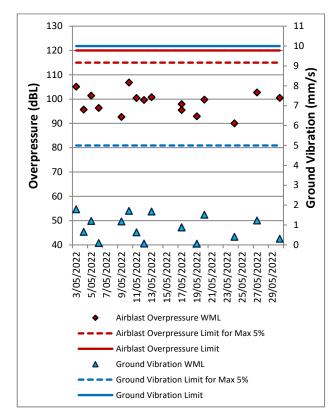


Figure 12: Wambo Road Blast Monitoring Results – May 2022

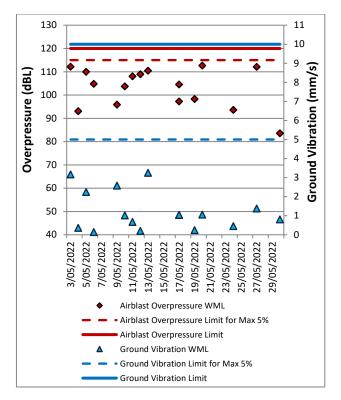


Figure 13: Warkworth Blast Monitoring Results – May 2022

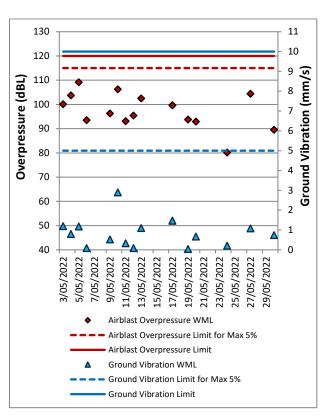


Figure 14: Wollemi Peak Road Blast Monitoring Results – May 2022

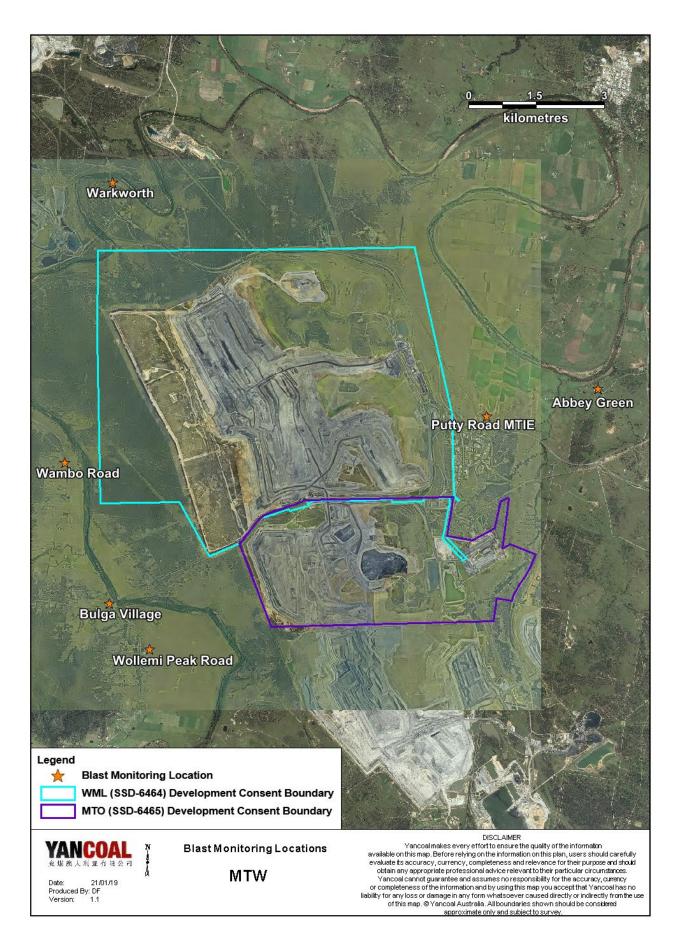


Figure 15: MTW Blast Monitoring Location Plan

#### 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 17<sup>th</sup> May 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.

Location	Date and Time	Wind Speed (m/s)	Stability Class	Criterion dB(A)	Criterion Applies? <sup>1</sup>	WML L <sub>Aeq</sub> dB <sup>2,3,4</sup>	Exceedance <sup>3,4</sup>
Bulga RFS	17/05/2022 23:41	1.5	E	37	Yes	IA	Nil
Bulga Village	17/05/2022 23:18	1.2	F	38	Yes	IA	Nil
Gouldsville	17/05/2022 21:29	2.6	E	38	Yes	34	Nil
Inlet Rd	17/05/2022 21:24	2.6	E	37	Yes	IA	Nil
Inlet Rd West	17/05/2022 21:00	2.2	D	35	Yes	IA	Nil
Long Point	17/05/2022 21:04	2.2	D	35	Yes	29	Nil
South Bulga	18/05/2022 0:04	1.1	F	35	Yes	IA	Nil
Wambo Road	17/05/2022 21:50	2.5	E	38	Yes	IA	Nil

#### Table 3: Lago 15 minute Warkworth Impact Assessment Criteria – May 2022

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 – May 2022

Location	Date and Time	Wind Speed (m/s)	Stability Class	Criterion dB(A)	Criterion Applies? <sup>1</sup>	WML L <sub>A1, 1min</sub> dB <sup>2,3,4</sup>	Exceedance <sup>3,4</sup>
Bulga RFS	17/05/2022 23:41	1.5	E	47	Yes	IA	Nil
Bulga Village	17/05/2022 23:18	1.2	F	48	Yes	IA	Nil
Gouldsville	17/05/2022 21:29	2.6	E	48	Yes	35	Nil
Inlet Rd	17/05/2022 21:24	2.6	E	47	Yes	IA	Nil
Inlet Rd West	17/05/2022 21:00	2.2	D	45	Yes	IA	Nil
Long Point	17/05/2022 21:04	2.2	D	45	Yes	36	Nil
South Bulga	18/05/2022 0:04	1.1	F	45	Yes	IA	Nil
Wambo Road	17/05/2022 21:50	2.5	E	48	Yes	IA	Nil

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? <sup>1</sup>	MTO L <sub>Aeq</sub> dB <sup>2,3,4</sup>	Exceedance <sup>3,4</sup>
Bulga RFS	17/05/2022 23:41	1.5	E	37	Yes	32	Nil
Bulga Village	17/05/2022 23:18	1.2	F	38	Yes	IA	Nil
Gouldsville	17/05/2022 21:29	2.6	E	35	Yes	IA	Nil
Inlet Rd	17/05/2022 21:24	2.6	E	37	Yes	IA	Nil
Inlet Rd West	17/05/2022 21:00	2.2	D	35	Yes	IA	Nil
Long Point	17/05/2022 21:04	2.2	D	35	Yes	IA	Nil
South Bulga	18/05/2022 0:04	1.1	F	36	Yes	30	Nil
Wambo Road	17/05/2022 21:50	2.5	E	38	Yes	IA	Nil

#### Table 5: Laeg 15minute Mount Thorley - Impact Assessment Criteria – May 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 and wind speeds greater than 2m/s at 10m above ground level; or stability category G temperature inversion conditions and wind speeds greater than 2m/s at 10m above ground level; or stability category G temperature inversion is a stability category G temperature inversion in the data temperature inversion of temperature inversion

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;

 Site-only LAeq, 15minute attributed to MTO, including modifying factors in 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 – May 2022

Location	Date and Time	Wind Speed (m/s)	Stability Class	Criterion dB	Criterion Applies? <sup>1</sup>	MTO L <sub>A1, 1min</sub> dB <sup>2,3,4</sup>	Exceedance <sup>3,4</sup>
Bulga RFS	17/05/2022 23:41	1.5	E	47	Yes	34	Nil
Bulga Village	17/05/2022 23:18	1.2	F	48	Yes	IA	Nil
Gouldsville	17/05/2022 21:29	2.6	E	45	Yes	IA	Nil
Inlet Rd	17/05/2022 21:24	2.6	E	47	Yes	IA	Nil
Inlet Rd West	17/05/2022 21:00	2.2	D	45	Yes	IA	Nil
Long Point	17/05/2022 21:04	2.2	D	45	Yes	IA	Nil
South Bulga	18/05/2022 0:04	1.1	F	46	Yes	34	Nil
Wambo Road	17/05/2022 21:50	2.5	E	48	Yes	IA	Nil

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, 1 minute 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 NPfl 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. This resulted in the application of a 2dB penalty to the site only LAeq for the measurements taken at Gouldsville on 17 May 2022. Resulting LAeq noise levels did not exceed the WML impact assessment criteria at Gouldsville. 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	Criterion Applies?	Intermittency Modifying Factor?	Tonality Modifying Factor?	Frequency of Tonality <sup>1</sup>	Low- frequency Modifying Factor?	Maximum Exceedance of Reference Spectrum <sup>1,2</sup>	Penalty dB <sup>2</sup>	Exceedance <sup>1</sup>
Bulga RFS	17/05/2022 23:41	IA	Yes	No	No	NA	No	NA	Nil	Nil
Bulga Village	17/05/2022 23:18	IA	Yes	No	No	NA	No	NA	Nil	Nil
Gouldsville	17/05/2022 21:29	32	Yes	No	No	NA	Yes	2 dB @ 63 Hz	2	Nil
Inlet Rd	17/05/2022 21:24	IA	Yes	No	No	NA	No	NA	Nil	Nil
Inlet Rd West	17/05/2022 21:00	IA	Yes	No	No	NA	No	NA	Nil	Nil
Long Point	17/05/2022 21:04	29	Yes	No	No	NA	No	NA	Nil	Nil
South Bulga	18/05/2022 0:04	IA	Yes	No	No	NA	No	NA	Nil	Nil
Wambo Road	17/05/2022 21:50	IA	Yes	No	No	NA	No	NA	Nil	Nil

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 Low Frequency	/ Noise Assessment – May 2022
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Location	Date and Time	Measured WML LAeq dB	Criterion Applies?	Intermittency Modifying Factor?	Tonality Modifying Factor?	Frequency of Tonality <sup>1</sup>	Low-frequency Modifying Factor?	Maximum Exceedance of Reference Spectrum <sup>1,2</sup>	Penalty dB <sup>2</sup>	Exceedance <sup>1</sup>
Bulga RFS	17/05/2022 23:41	32	Yes	No	No	NA	No	NA	Nil	Nil
Bulga Village	17/05/2022 23:18	IA	Yes	No	No	NA	No	NA	Nil	Nil
Gouldsville	17/05/2022 21:29	IA	Yes	No	No	NA	No	NA	Nil	Nil
Inlet Rd	17/05/2022 21:24	IA	Yes	No	No	NA	No	NA	Nil	Nil
Inlet Rd West	17/05/2022 21:00	IA	Yes	No	No	NA	No	NA	Nil	Nil
Long Point	17/05/2022 21:04	IA	Yes	No	No	NA	No	NA	Nil	Nil
South Bulga	18/05/2022 0:04	30	Yes	No	No	NA	No	NA	Nil	Nil
Wambo Road	17/05/2022 21:50	IA	Yes	No	No	NA	No	NA	Nil	Nil

Notes:

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

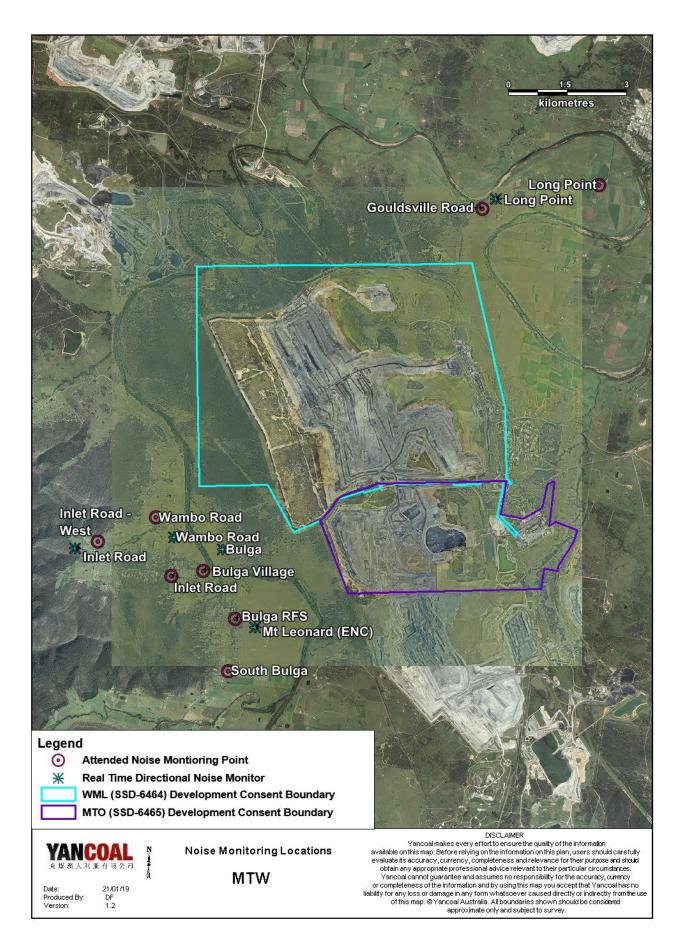


Figure 16: Noise Monitoring Location Plan

#### 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 May are provided in **Table 9**.

## Table 9: Supplementary Attended Noise Monitoring Data – May 2022

No. of	No. of	No. of nights	%
assessments	assessments >	where	greater
	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 May, a total of 155 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**.

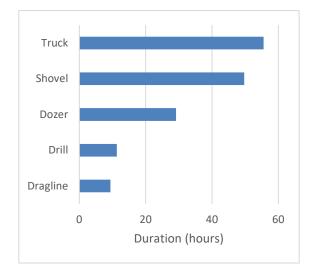


Figure 17: Operational Downtime by Equipment Type – May 2022

## 7.0 REHABILITATION

During May 2022, 4.08 Ha of land was released, 7.57 Ha was bulk shaped and 1.7 Ha was topsoiled.

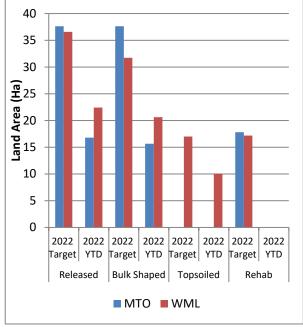


Figure 18: Rehabilitation YTD - May 2022

#### Table 10: Complaints Summary YTD

## 8.0 ENVIRONMENTAL INCIDENTS

There were no environmental incidents recorded during the reporting period.

## 9.0 COMPLAINTS

11 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	8	0	3	0	0	11
April	1	0	7	6	0	14
May	4	0	6	1	0	11
June						
July						
August						
September						
October						
November						
December						
Total	22	1	25	7	1	56

Appendix A: Meteorological Data

Data	Air Temperature		Relative Humidity		Wind Direction	Wind Speed	Rainfall
Date	Maximum (°C)	Minimum (°C)	Maximum (%)	Minimum (%)	Average (°)	Average (m/sec)	total (mm)
1/05/2022	20	4	100	64	218	1.5	0.2
2/05/2022	23	5	100	57	170	2.0	0.2
3/05/2022	23	6	100	44	189	1.5	0.0
4/05/2022	25	4	100	39	232	1.7	0.2
5/05/2022	24	10	100	51	221	2.4	10.0
6/05/2022	20	4	96	25	279	2.2	0.0
7/05/2022	18	0	100	42	291	3.0	0.0
8/05/2022	19	1	94	34	228	2.3	0.0
9/05/2022	21	2	99	58	191	2.6	0.0
10/05/2022	23	8	100	48	161	3.3	1.2
11/05/2022	18	10	100	75	148	3.1	2.6
12/05/2022	18	10	100	96	144	2.9	8.4
13/05/2022	20	11	100	92	146	1.3	6.4
14/05/2022	25	12	100	69	185	1.4	0.8
15/05/2022	23	12	100	82	246	1.8	0.2
16/05/2022	23	8	100	48	277	2.4	0.2
17/05/2022	21	5	98	47	293	2.3	0.0
18/05/2022	20	3	97	44	296	2.7	0.0
19/05/2022	18	1	98	38	228	2.1	0.0
20/05/2022	14	3	96	65	175	3.5	0.0
21/05/2022	18	6	100	76	173	3.0	2.6
22/05/2022	18	7	100	77	172	3.5	4.4
23/05/2022	18	6	100	68	177	3.1	0.6
24/05/2022	18	6	100	70	173	2.6	0.6
25/05/2022	17	6	100	71	176	1.8	0.2
26/05/2022	20	5	100	59	168	1.6	0.0
27/05/2022	20	5	100	73	184	1.3	0.4
28/05/2022	21	7	100	60	267	2.2	0.2
29/05/2022	19	2	100	44	298	3.1	0.0
30/05/2022	20	-1	100	44	250	3.4	6.2
31/05/2022	16	3	96	45	287	5.8	0.4

#### Table 11: Meteorological Data – Charlton Ridge Meteorological Station – May 2022