



Monthly Environmental Monitoring Report

Yancoal Mount Thorley Warkworth
May 2021

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Revision History

Version No.	Version Details	Document Status	Date
1.0	Environment and Community Coordinator	Draft	12/08/2021

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 2021.

2.0 AIR QUALITY

2.1 Meteorological Monitoring

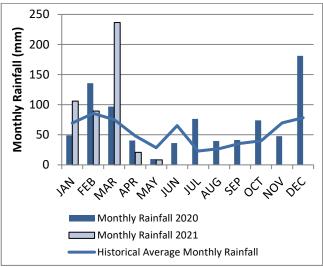
Meteorological data is collected at MTW's 'Charlton Ridge' meteorological station (refer to **Figure 3**: Air Quality Monitoring Locations).

2.1.1 Rainfall

Rainfall for the reporting period is summarised in **Table 1**. The year-to-date monthly rainfall totals, 2021 monthly rainfall totals and historical average monthly rainfall trend are shown in **Figure 1**.

Table 1: Monthly Rainfall MTW

2021	Monthly Rainfall (mm)	Cumulative Rainfall (mm)
May	8.4	461.2



Note: The historical average monthly rainfall is calculated from 2007 to 2020 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.**

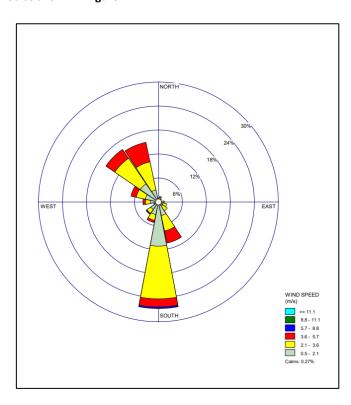


Figure 2: Charlton Ridge Wind Rose -May 2021

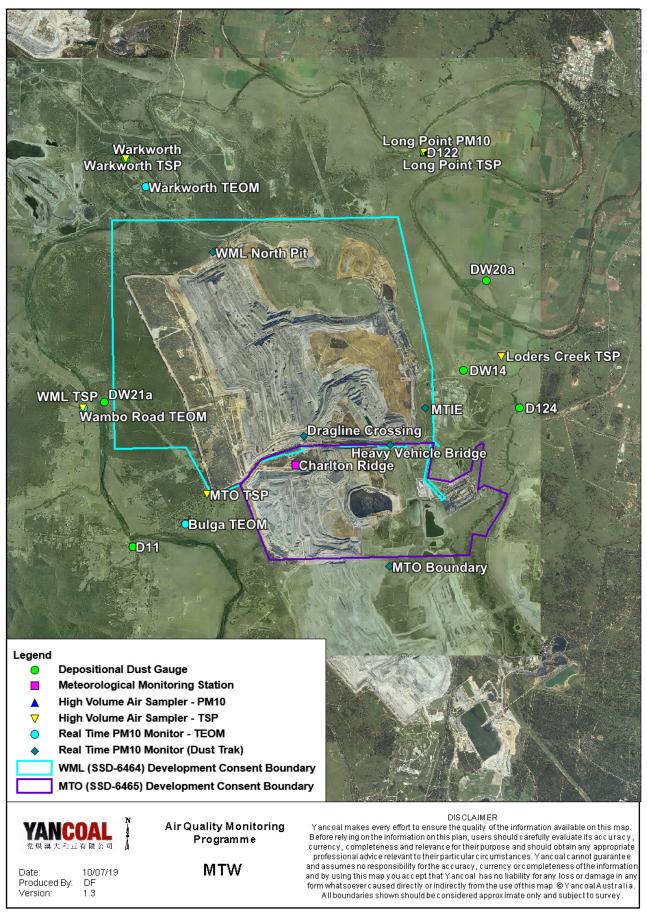


Figure 3: Air Quality Monitoring Locations

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/m² per month. There is no evidence to suggest that the Warkworth results are contaminated. Accordingly, the results 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 2021 Annual Review Report.

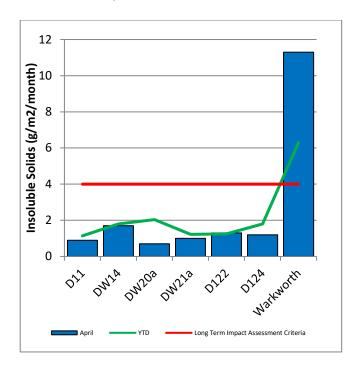


Figure 4: Depositional Dust - May 2021

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 μ 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 $50\mu g/m^3$.

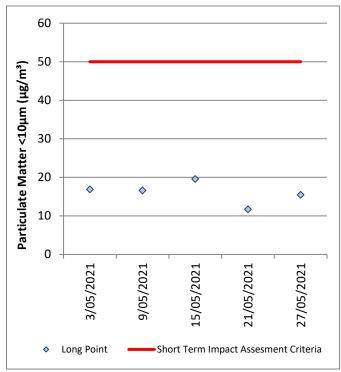


Figure 5: Individual PM10 Results -May 2021

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 2021 Annual Review Report.

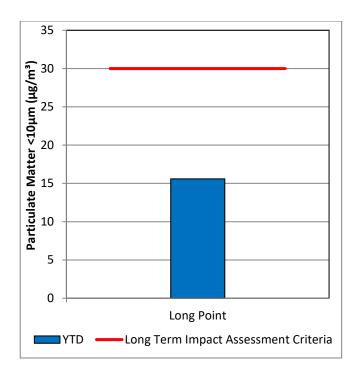


Figure 6: Annual Average PM₁₀ - May 2021

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 2021 Annual Review Report.

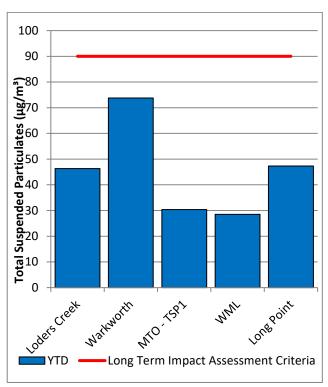


Figure 7: Annual Average Total Suspended Particulates – May 2021

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 20 May 2021 from the Warkworth monitor, 22 and 25 May 2021 from the Wambo Road monitor, and 25 and 29 May 2021 from the Bulga monitor due to equipment issues.

2.3.4 Real Time Alarms for Air Quality

During May, the real time monitoring system generated 21 automated air quality related alerts, including 6 alerts for adverse meteorological conditions and 15 alerts for elevated PM_{10} levels.

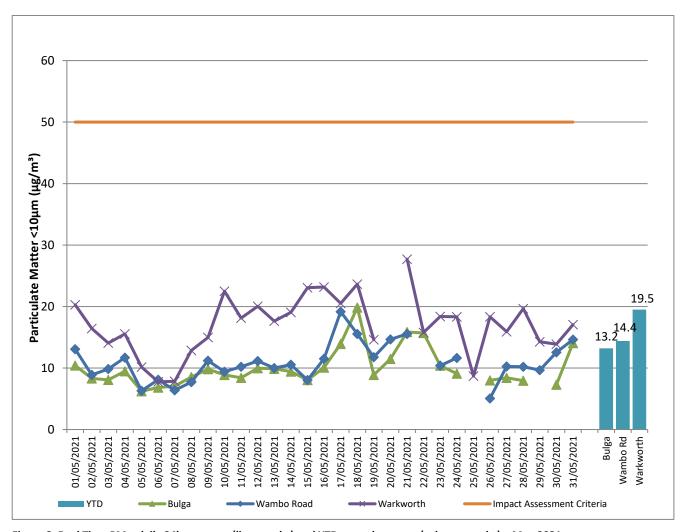


Figure 8: Real Time PM_{10} daily 24hr average (line graphs) and YTD annual average (column graphs) – May_2021

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 2021 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 2021 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 2021, 21 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) 5	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 115 dB(L) 5% threshold for airblast overpressure at the Abbey Green blast monitoring location. No blast exceeded the 5mm/s 5% criteria for ground vibration.

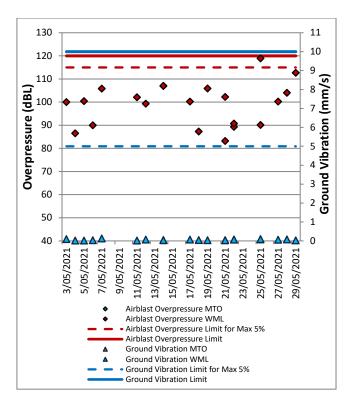


Figure 9: Abbey Green Blast Monitoring Results - May 2021

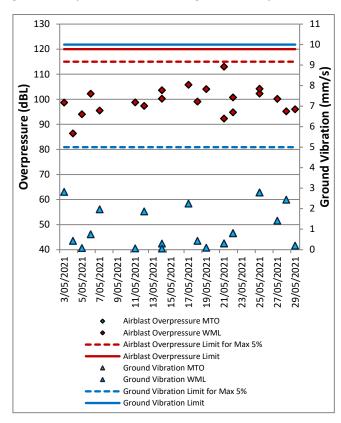
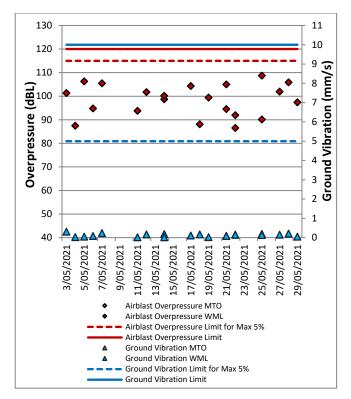


Figure 10: Bulga Village Blast Monitoring Results - May 2021



130 11 10 120 (mm/s) 110 **B**100 Overpressure (**Ground Vibration** 90 80 70 3 60 2 50 1 40 5/05/2021 25/05/2021 27/05/2021 29/05/2021 3/05/2021 11/05/2021 17/05/2021 21/05/2021 23/05/2021 7/05/2021 13/05/2021 15/05/2021 19/05/2021 9/05/2023 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

Figure 11: MTIE Blast Monitoring Results - May 2021

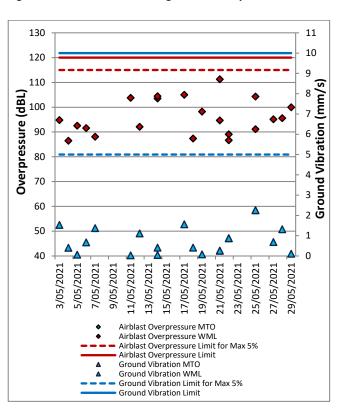


Figure 12: Wollemi Peak Road Blast Monitoring Results – May 2021

Figure 13: Wambo Road Blast Monitoring Results – May 2021

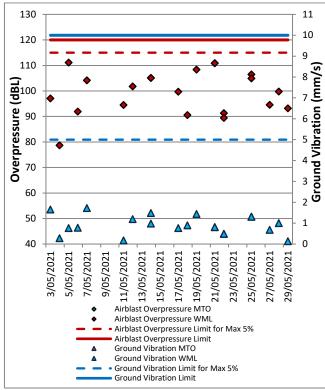


Figure 14: Warkworth Blast Monitoring Results – May 2021

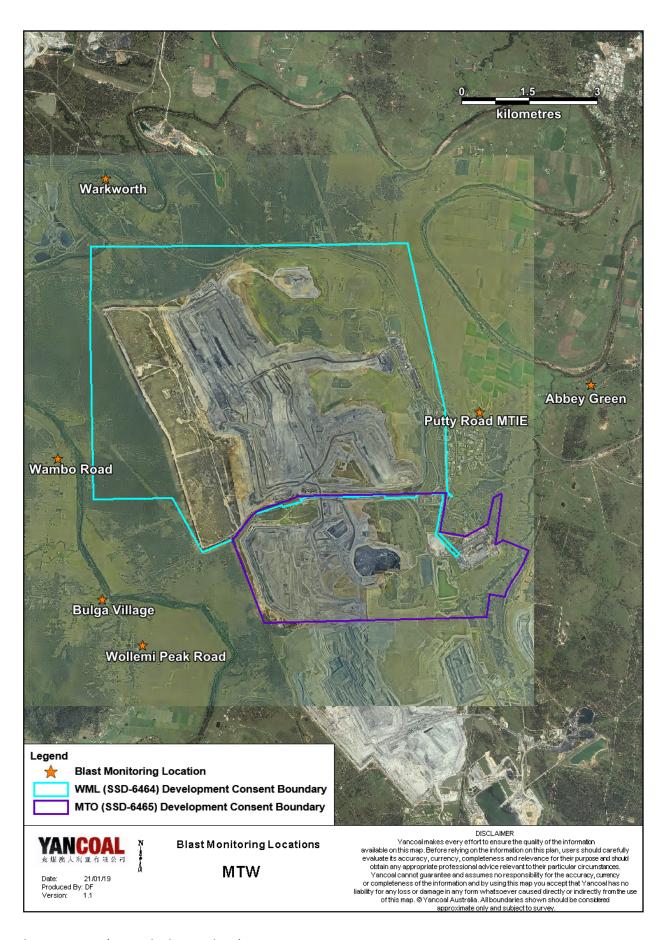


Figure 15: MTW Blast Monitoring Location Plan

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 17-18 May 2021. 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: LAeq. 15 minute Warkworth Impact Assessment Criteria -May 2021

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	18/05/2021 0:04	2.3	D	37	Yes	NM	Nil
Bulga Village	17/05/2021 23:18	1.9	D	38	Yes	IA	Nil
Gouldsville	17/05/2021 21:25	0.4	F	38	Yes	IA	Nil
Inlet Rd	17/05/2021 21:29	0.4	F	37	Yes	33	Nil
Inlet Rd West	17/05/2021 21:00	1.2	E	35	Yes	32	Nil
Long Point	17/05/2021 21:03	1.2	E	35	Yes	IA	Nil
South Bulga	18/05/2021 0:26	2.6	E	35	Yes	IA	Nil
Wambo Road	17/05/2021 21:57	1.1	F	38	Yes	34	Nil

Notes:

Table 4: LA1, 1 minute Warkworth - Impact Assessment Criteria - May 2021

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	18/05/2021 0:04	2.3	D	47	Yes	NM	Nil
Bulga Village	17/05/2021 23:18	1.9	D	48	Yes	IA	Nil
Gouldsville	17/05/2021 21:25	0.4	F	48	Yes	IA	Nil
Inlet Rd	17/05/2021 21:29	0.4	F	47	Yes	38	Nil
Inlet Rd West	17/05/2021 21:00	1.2	E	45	Yes	39	Nil
Long Point	17/05/2021 21:03	1.2	E	45	Yes	IA	Nil
South Bulga	18/05/2021 0:26	2.6	E	45	Yes	IA	Nil
Wambo Road	17/05/2021 21:57	1.1	F	48	Yes	37	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 LAeq,15minute attributed to WML, including modifying factors if applicable;

^{3.} Bold results in red indicate exceedances of relevant criteria;

^{4.} IA denotes 'Inaudible'; and

^{4.} IA welrotes involudine, unit means atmospheric conditions outside conditions specified in development consent and so criterion is not applicable.

^{6.} NM denotes 'not measurable. If site noise is noted as NM, this means some noise was audible but could not be quantified.

^{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 WML;

^{3.} Bold results in red are possible exceedances of relevant criteria; and

- 4. IA denotes 'Inaudible'; and
- 5. NA in exceedance column means atmospheric conditions outside conditions specified in development consent and so criterion is not applicable.
- 6. NM denotes 'not measurable. If site noise is noted as NM, this means some noise was audible but could not be quantified.

5.1.3 MTO Noise Assessment

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

Table 5: LAeq, 15minute Mount Thorley - Impact Assessment Criteria - May 2021

Location	Date and Time	Wind Speed (m/s)	Stability Class	Criterion dB	Criterion Applies? ¹	MTO L _{Aeq} dB ^{2,3,4}	Exceedance ^{3,5}
Bulga RFS	18/05/2021 0:04	2.3	D	37	Yes	IA	Nil
Bulga Village	17/05/2021 23:18	1.9	D	38	Yes	IA	Nil
Gouldsville	17/05/2021 21:25	0.4	F	35	Yes	IA	Nil
Inlet Rd	17/05/2021 21:29	0.4	F	37	Yes	IA	Nil
Inlet Rd West	17/05/2021 21:00	1.2	E	35	Yes	IA	Nil
Long Point	17/05/2021 21:03	1.2	E	35	Yes	IA	Nil
South Bulga	18/05/2021 0:26	2.6	E	36	Yes	IA	Nil
Wambo Road	17/05/2021 21:57	1.1	F	38	Yes	IA	Nil

Notes:

Table 6: LA1. 1Minute Mount Thorley - Impact Assessment Criteria - May 2021

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	18/05/2021 0:04	2.3	D	47	Yes	IA	Nil
Bulga Village	17/05/2021 23:18	1.9	D	48	Yes	IA	Nil
Gouldsville	17/05/2021 21:25	0.4	F	45	Yes	IA	Nil
Inlet Rd	17/05/2021 21:29	0.4	F	47	Yes	IA	Nil
Inlet Rd West	17/05/2021 21:00	1.2	E	45	Yes	IA	Nil
Long Point	17/05/2021 21:03	1.2	E	45	Yes	IA	Nil
South Bulga	18/05/2021 0:26	2.6	E	46	Yes	IA	Nil
Wambo Road	17/05/2021 21:57	1.1	F	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 LAeq, 15minute attributed to MTO, including modifying factors if applicable; 3. Bold results in red indicate exceedances of relevant criteria; and

^{4.} IA denotes 'Inaudible'; and

^{5.} NA in exceedance column means atmospheric conditions outside conditions specified in development consent and so criterion is not applicable.

^{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;

^{3.} Bold results in red indicate exceedances of relevant criteria; and

^{4.} IA denotes 'Inaudible'; and
5. NA in exceedance column means atmospheric conditions outside conditions specified in development consent and so criterion is 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.

Table 7: Warkworth Low Frequency Noise Assessment - May 2021

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 ²	Exceedance
Bulga RFS	18/05/2021 0:04	NM	Yes	No	No	NA	No	NA	Nil	NA
Bulga Village	17/05/2021 23:18	IA	Yes	No	No	NA	No	NA	Nil	NA
Gouldsville	17/05/2021 21:25	IA	Yes	No	No	NA	No	NA	Nil	NA
Inlet Rd	17/05/2021 21:29	33	Yes	No	No	NA	No	NA	Nil	NA
Inlet Rd West	17/05/2021 21:00	32	Yes	No	No	NA	No	NA	Nil	NA
Long Point	17/05/2021 21:03	IA	Yes	No	No	NA	No	NA	Nil	NA
South Bulga	18/05/2021 0:26	IA	Yes	No	No	NA	No	NA	Nil	NA
Wambo Road	17/05/2021 21:57	34	Yes	No	No	NA	No	NA	Nil	NA

Notes:

^{1.} IA denotes 'Inaudible';

^{2.} NA denotes 'Not Applicable'; and

^{3.} Bold results indicate that application of NPfI modifying factor/s is required.

Table 8: Mount Thorley Operations Low Frequency Noise Assessment – May 2021

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 ²	Exceedance
Bulga RFS	18/05/2021 0:04	IA	Yes	No	No	NA	No	NA	Nil	NA
Bulga Village	17/05/2021 23:18	IA	Yes	No	No	NA	No	NA	Nil	NA
Gouldsville	17/05/2021 21:25	IA	Yes	No	No	NA	No	NA	Nil	NA
Inlet Rd	17/05/2021 21:29	IA	Yes	No	No	NA	No	NA	Nil	NA
Inlet Rd West	17/05/2021 21:00	IA	Yes	No	No	NA	No	NA	Nil	NA
Long Point	17/05/2021 21:03	IA	Yes	No	No	NA	No	NA	Nil	NA
South Bulga	18/05/2021 0:26	IA	Yes	No	No	NA	No	NA	Nil	NA
Wambo Road	17/05/2021 21:57	IA	Yes	No	No	NA	No	NA	Nil	NA

Notes:

IA denotes 'Inaudible';
 NA denotes 'Not Applicable'; and
 Bold results indicate that application of NPfl modifying factor/s is required.

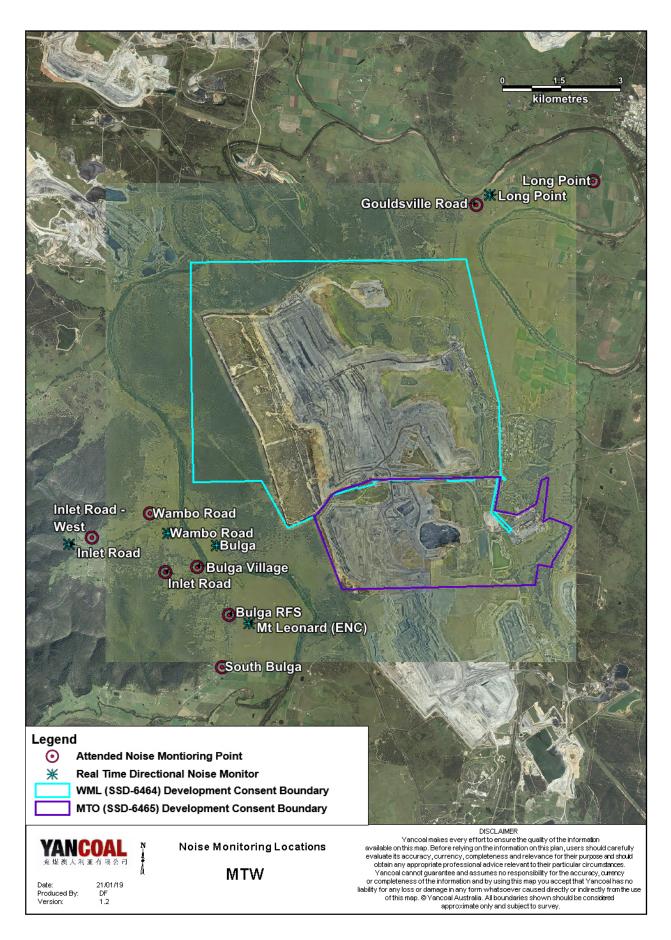


Figure 16: Noise Monitoring Location Plan

5.2 Noise Management Measures

A program of targeted supplementary attended noise monitoring is in place at MTW, supported by the real-time 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 2021

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 146 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**.

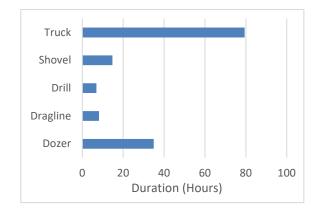


Figure 17: Operational Downtime by Equipment Type – May 2021

7.0 REHABILITATION

During May 2021, 11.4 Ha of land was released and 5.8 Ha of land was bulk shaped.

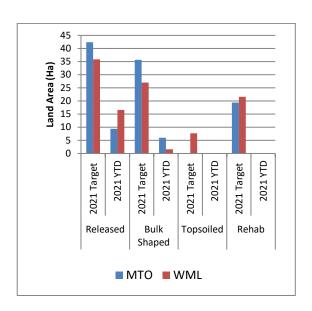


Figure 18: Rehabilitation YTD - May 2021

9.0 COMPLAINTS

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

8.0 ENVIRONMENTAL INCIDENTS

There were no reportable environmental incidents recorded during the reporting period.

Table 10: Complaints Summary YTD

	Noise	Dust	Blast	Lighting	Other	Total
January	1	0	6	4	1	12
February	4	0	3	0	0	7
March	5	0	3	3 1		12
April	6	2	1	10	0	19
May	3	1	10	5	0	19
June						
July						
August						
September						
October						
November						
December						
Total	19	3	23	22	2	69

Appendix A: Meteorological Data

Table 11: Meteorological Data – Charlton Ridge Meteorological Station – May 2021

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)
1/05/2021	24	9	98	45	148	2.1	0
2/05/2021	23	8	98	52	153	1.9	0.2
3/05/2021	25	7	99	41	232	1.9	0
4/05/2021	17	8	99	68	211	1.4	1
5/05/2021	20	8	99	62	175	2.3	0.2
6/05/2021	20	10	98	74	166	2.7	3.4
7/05/2021	24	12	98	64	197	2.3	0.4
8/05/2021	25	10	99	50	268	2.4	0.2
9/05/2021	18	10	95	62	204	1.9	0.8
10/05/2021	24	7	98	42	292	2.4	0
11/05/2021	20	9	94	51	285	2.2	1
12/05/2021	22	6	93	60	226	1.9	0
13/05/2021	23	9	95	47	272	2.9	0
14/05/2021	20	6	75	28	291	3.4	0
15/05/2021	18	3	79	33	290	3.5	0
16/05/2021	17	0	76	29	312	3.4	0
17/05/2021	19	1	77	38	251	3.0	0
18/05/2021	20	3	89	32	196	1.6	0
19/05/2021	21	1	96	30	262	2.0	0
20/05/2021	22	1	93	34	268	2.3	0
21/05/2021	18	5	96	45	174	2.9	0.8
22/05/2021	20	4	95	48	164	2.3	0
23/05/2021	21	4	99	48	221	2.0	0.2
24/05/2021	21	7	96	56	152	2.0	0.2
25/05/2021	22	6	99	45	212	1.9	0
26/05/2021	23	4	96	32	259	2.9	0
27/05/2021	19	2	84	26	283	2.6	0
28/05/2021	18	1	87	29	237	3.3	0
29/05/2021	17	2	68	42	177	3.3	0
30/05/2021	18	5	89	47	176	2.9	0
31/05/2021	19	2	94	42	183	1.4	0

[&]quot;-" Indicates that data was not available due to technical issues.