



Monthly Environmental Monitoring Report Yancoal Mount Thorley Warkworth August 2022

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Revision History

Version No.	Version Details	Document Status	Date
1.0	Environment and Community Advisor	Final	10/11/2022

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 August to 31 August 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**.

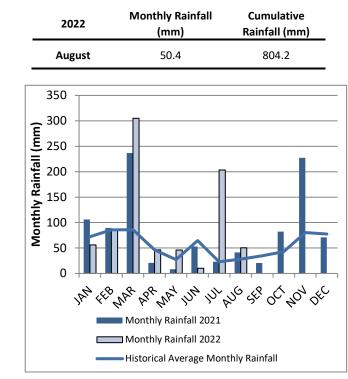


Table 1: Monthly Rainfall MTW

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 Northwest were dominant during the reporting period as shown in **Figure 2**.

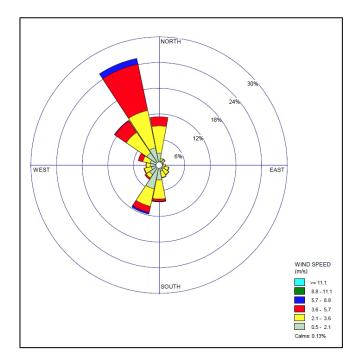


Figure 2: Charlton Ridge Wind Rose – August 2022

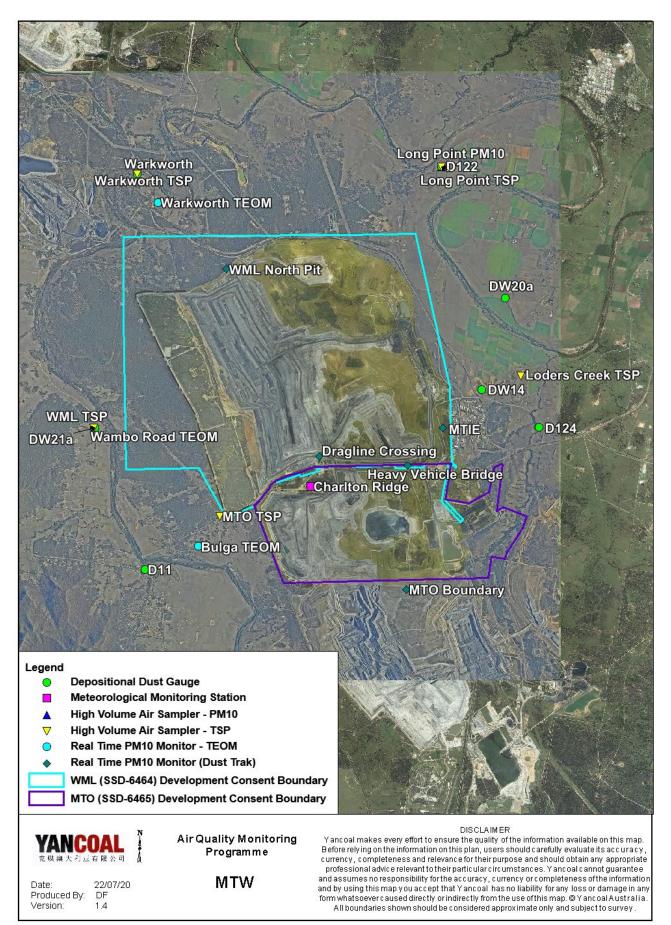


Figure 3: Air Quality Monitoring Locations

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/m2 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.

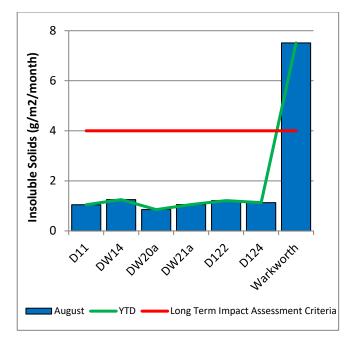


Figure 4: Depositional Dust – August 2022

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 $50\mu g/m^3$.

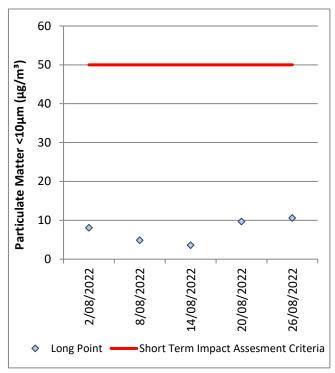


Figure 5: Individual PM10 Results - August 2022

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.

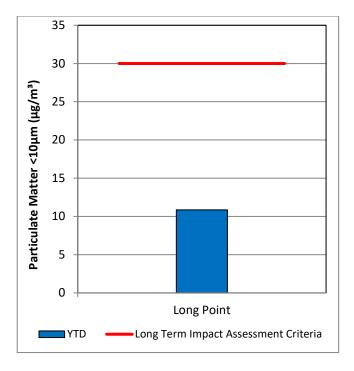


Figure 6: Annual Average PM₁₀ – August 2022

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.

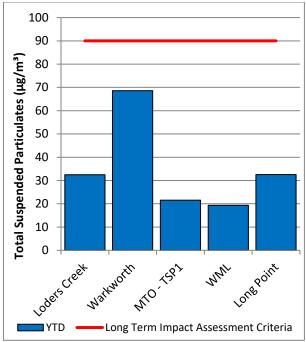


Figure 7: Annual Average Total Suspended Particulates – August 2022

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.

2.3.4 Real Time Alarms for Air Quality

During August, the real time monitoring system generated 33 automated air quality related alerts, including 7 alerts for adverse meteorological conditions and 26 alerts for elevated PM_{10} levels.

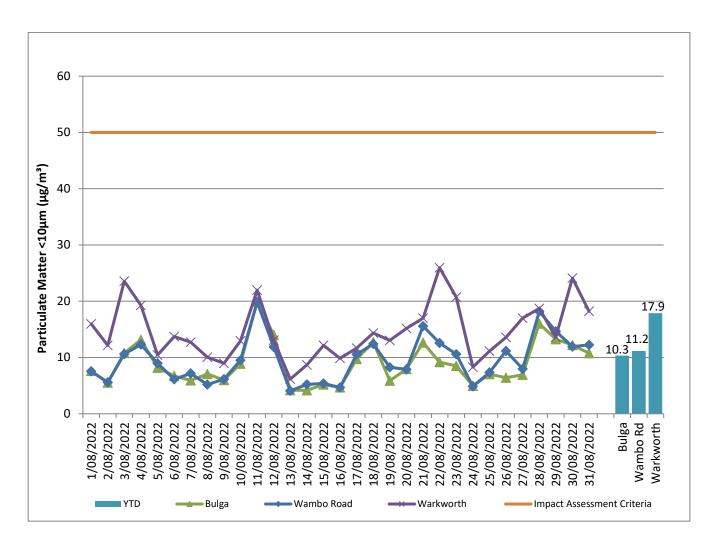


Figure 8: Real Time PM₁₀ daily 24hr average (line graphs) and YTD annual average (column graphs) – August 2022

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 September 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 period licenced HRSTS discharge from Dam 9S (EPL 1976 Point 4) occurred on 4 and 5 August, from 8 August to 22 August 2022 and on 31 August, discharging a total of 889 ML.

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 September 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 August 2022, 22 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 no blast exceeded the 115dB(L) threshold for airblast overpressure and no blast exceeded the 5mm/s criteria for ground vibration.

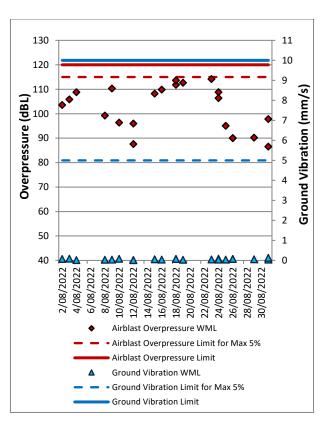


Figure 9: Abbey Green Blast Monitoring Results – August 2022

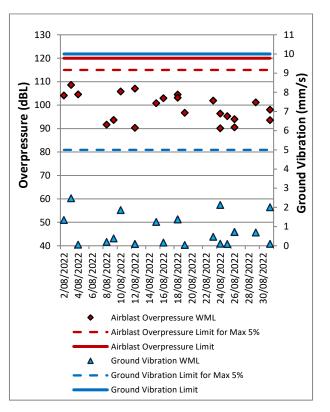


Figure 10: Bulga Village Blast Monitoring Results – August 2022

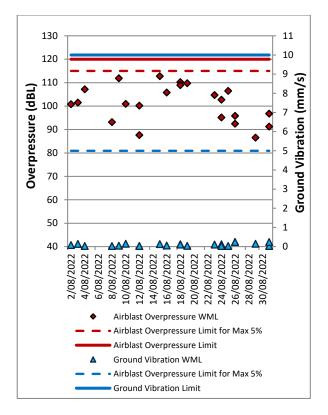


Figure 11: MTIE Blast Monitoring Results – August 2022

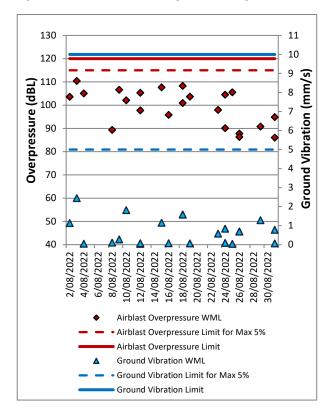


Figure 12: Wollemi Peak Road Blast Monitoring Results – August 2022

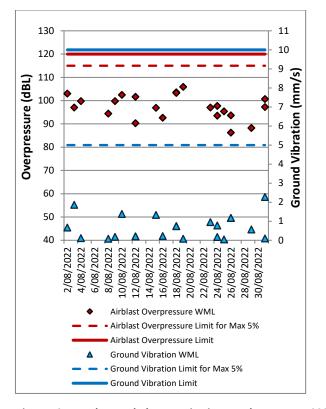


Figure 13: Wambo Road Blast Monitoring Results – August 2022

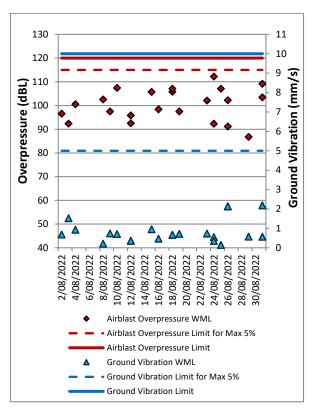


Figure 14: Warkworth Blast Monitoring Results – August 2022

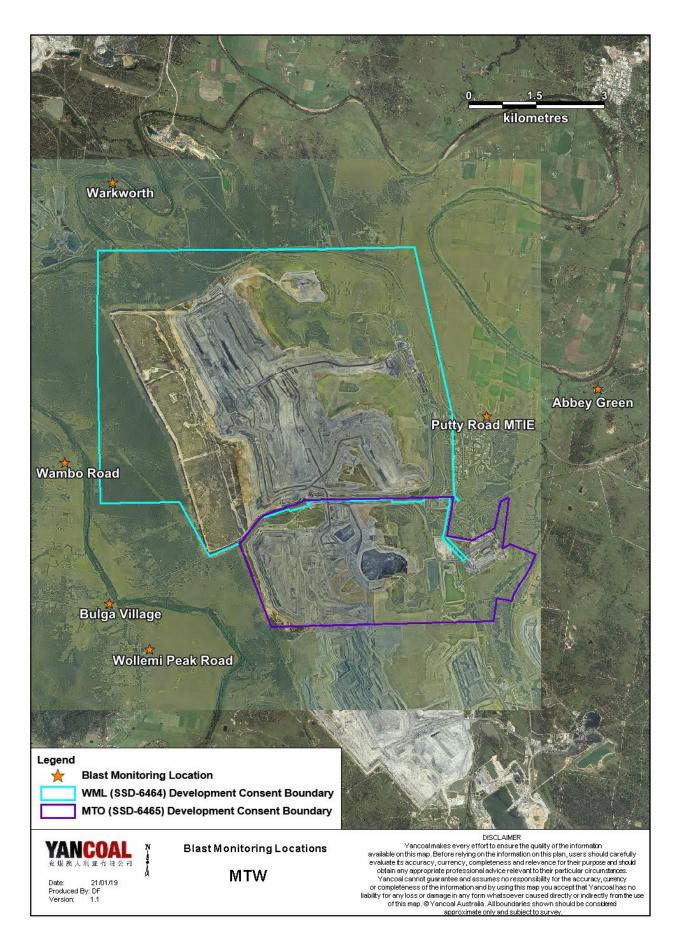


Figure 15: MTW Blast Monitoring Location Plan

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 August 2022. Measurements complied with the relevant criteria, with the exception of WML levels at Inlet Road, Inlet Road West and Wambo Road. 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? ¹	WML L _{Aeq} dB ^{2,3}	Exceedance ^{3,4}
Bulga RFS	18/08/2022 0:13	1.6	D	37	Yes	29	Nil
Bulga Village	17/08/2022 23:28	0.6	E	38	Yes	31	Nil
Gouldsville	17/08/2022 21:27	0.6	F	38	Yes	<25	Nil
Inlet Rd	17/08/2022 21:25	0.6	F	37	Yes	<30	Nil
Inlet Rd West	17/08/2022 21:00	1.2	F	35	Yes	28	Nil
Long Point	17/08/2022 21:00	1.2	F	35	Yes	IA	Nil
South Bulga	18/08/2022 0:37	2.2	E	35	Yes	<30	Nil
Wambo Road	17/08/2022 21:58	0.2	F	38	Yes	34	Nil

Table 3: LAeq, 15 minute Warkworth Impact Assessment Criteria – August 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 on dwind 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 conditions.

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.

5. Followup measurement.

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

Location	Date and Time	Wind Speed (m/s)	Stability Class	Criterion dB(A)	Criterion Applies? ¹	WML L _{A1, 1min} dB ^{2,3}	Exceedance ^{3,4}
Bulga RFS	18/08/2022 0:13	1.6	D	47	Yes	39	Nil
Bulga Village	17/08/2022 23:28	0.6	E	48	Yes	38	Nil
Gouldsville	17/08/2022 21:27	0.6	F	48	Yes	40	Nil
Inlet Rd	17/08/2022 21:25	0.6	F	47	Yes	32	Nil
Inlet Rd West	17/08/2022 21:00	1.2	F	45	Yes	32	Nil
Long Point	17/08/2022 21:00	1.2	F	45	Yes	IA	Nil
South Bulga	18/08/2022 0:37	2.2	E	45	Yes	40	Nil
Wambo Road	17/08/2022 21:58	0.2	F	48	Yes	36	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 or tapply due to rounding of meteorological data values; 2. Site-only LA1_Iminute attributed to WML; 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. Followup measurement.

5.1.2 MTO Noise Assessment

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

Location	Date and Time	Wind Speed (m/s)	Stability Class	Criterion dB	Criterion Applies? ¹	MTO L _{Aeq} dB ^{2,3}	Exceedance ^{3,4}
Bulga RFS	18/08/2022 0:13	1.6	D	37	Yes	31	Nil
Bulga Village	17/08/2022 23:28	0.6	E	38	Yes	IA	Nil
Gouldsville	17/08/2022 21:27	0.6	F	35	Yes	IA	Nil
Inlet Rd	17/08/2022 21:25	0.6	F	37	Yes	33	Nil
Inlet Rd West	17/08/2022 21:00	1.2	F	35	Yes	IA	Nil
Long Point	17/08/2022 21:00	1.2	F	35	Yes	IA	Nil
South Bulga	18/08/2022 0:37	2.2	E	36	Yes	31	Nil
Wambo Road	17/08/2022 21:58	0.2	F	38	Yes	IA	Nil

Table 5: Laeg 15minute Mount Thorley - Impact Assessment Criteria – August 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 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.

5. Followup measurement.

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

Location	Date and Time	Wind Speed (m/s)	Stability Class	Criterion dB	Criterion Applies? ¹	MTO L _{A1, 1min} dB ^{2,3}	Exceedance ^{3,4}
Bulga RFS	18/08/2022 0:13	1.6	D	47	Yes	33	Nil
Bulga Village	17/08/2022 23:28	0.6	E	48	Yes	IA	Nil
Gouldsville	17/08/2022 21:27	0.6	F	45	Yes	IA	Nil
Inlet Rd	17/08/2022 21:25	0.6	F	47	Yes	36	Nil
Inlet Rd West	17/08/2022 21:00	1.2	F	45	Yes	IA	Nil
Long Point	17/08/2022 21:00	1.2	F	45	Yes	IA	Nil
South Bulga	18/08/2022 0:37	2.2	E	46	Yes	33	Nil
Wambo Road	17/08/2022 21:58	0.2	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;

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. Followup measurement.

5.1.3 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**.

Table 7: Warkworth Low Frequency Noise Assessment – August 2022

Location	Date and Time	Measured WML LAeq dB	Criterion Applies?	Intermittency Modifying Factor?	Tonality Modifying Factor?	Frequency of Tonality ¹	Low- frequency Modifying Factor?	Maximum Exceedance of Reference Spectrum ^{1,2}	Penalty dB ²	Exceedance
Bulga RFS	18/08/2022 0:13	29	Yes	No	No	NA	No	NA	Nil	Nil
Bulga Village	17/08/2022 23:28	31	Yes	No	No	NA	No	NA	Nil	Nil
Gouldsville	17/08/2022 21:27	<25	Yes	No	No	NA	No	NA	Nil	Nil
Inlet Rd	17/08/2022 21:25	<30	Yes	No	No	NA	No	NA	Nil	Nil
Inlet Rd West	17/08/2022 21:00	28	Yes	No	No	NA	No	NA	Nil	Nil
Long Point	17/08/2022 21:00	IA	Yes	No	No	NA	No	NA	Nil	Nil
South Bulga	18/08/2022 0:37	<30	Yes	No	No	NA	No	NA	Nil	Nil
Wambo Road	17/08/2022 21:58	34	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.

3. Followup measurement.

Location	Date and Time	Measured WML LAeq dB	Criterion Applies?	Intermittency Modifying Factor?	Tonality Modifying Factor?	Frequency of Tonality ¹	Low-frequency Modifying Factor?	Maximum Exceedance of Reference Spectrum ^{1,2}	Penalty dB ²	Exceedance ²
Bulga RFS	18/08/2022 0:13	31	Yes	No	No	NA	No	NA	Nil	NA
Bulga Village	17/08/2022 23:28	IA	Yes	No	No	NA	No	NA	Nil	NA
Gouldsville	17/08/2022 21:27	IA	Yes	No	No	NA	No	NA	Nil	Nil
Inlet Rd	17/08/2022 21:25	33	Yes	No	No	NA	No	NA	Nil	Nil
Inlet Rd West	17/08/2022 21:00	IA	Yes	No	No	NA	No	NA	Nil	Nil
Long Point	17/08/2022 21:00	IA	Yes	No	No	NA	No	NA	Nil	Nil
South Bulga	18/08/2022 0:37	31	Yes	No	No	NA	No	NA	Nil	NA
Wambo Road	17/08/2022 21:58	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.

3. Followup measurement.

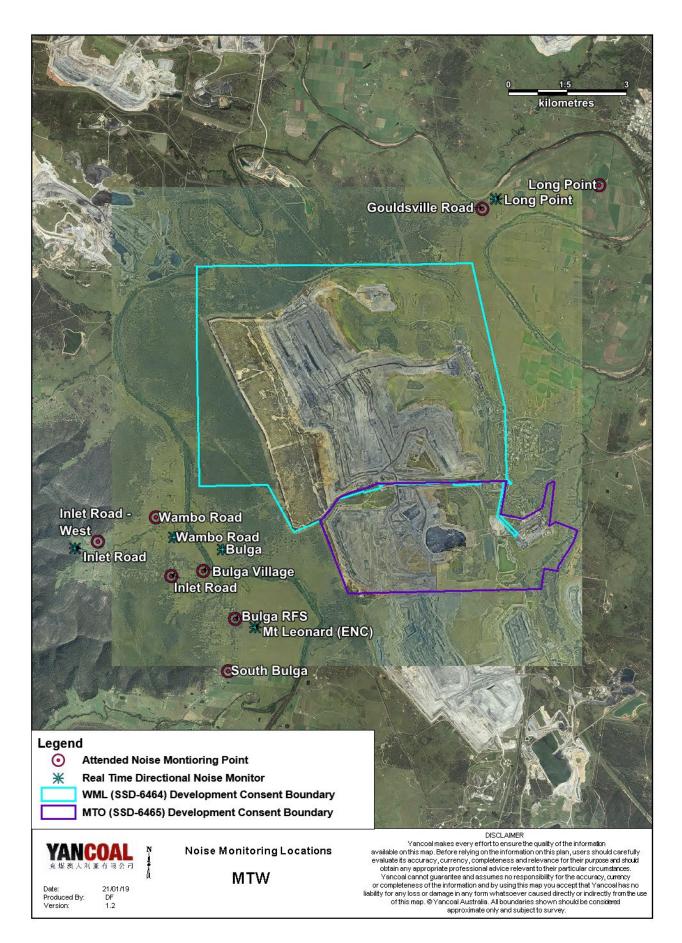


Figure 16: Noise Monitoring Location Plan

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 August are provided in **Table 9**.

Table 9: Supplementary Attended Noise Monitoring Data – August 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 August, a total of 870 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**.

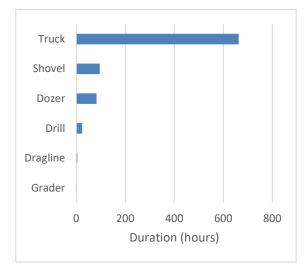


Figure 17: Operational Downtime by Equipment Type – August 2022

7.0 REHABILITATION

During August 2022, 0.93 Ha of land was released and 9.5 Ha was rehabilitated.

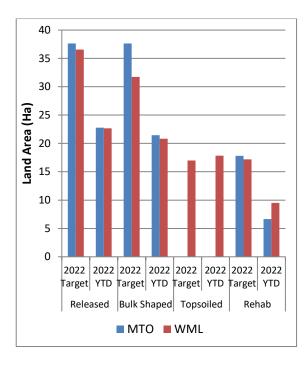


Figure 18: Rehabilitation YTD – August 2022

8.0 ENVIRONMENTAL INCIDENTS

There were no environmental incidents recorded during the reporting period.

9.0 COMPLAINTS

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

Table 10: Complaints Summary YTD

	Noise	Dust	Blast	Lighting	Other	Tota
January	2	1	4	0	0	7
February	8	0	5	0	1	14
March	8	0	3	0	0	11
April	1	0	7	6	0	14
May	4	0	6	1	0	11
June	0	1	4	1	0	6
July	7	0	5	0	1	13
August	3	0	5	0	0	8
September						
October						
November						
December						
Total	33	2	39	8	2	84

Appendix A: Meteorological Data

Date	Air Temperature		Relative	Relative Humidity		Wind Speed	Rainfall
Date	Maximum (°C)	Minimum (°C)	Maximum (%)	Minimum (%)	Average (°)	Average (m/sec)	total (mm)
1/08/2022	19	6	100	47	271	2.8	1.6
2/08/2022	18	0	100	25	247	2.3	0.0
3/08/2022	23	3	92	45	214	2.3	0.0
4/08/2022	23	9	100	55	194	2.9	24.4
5/08/2022	21	10	88	47	283	3.8	0.0
6/08/2022	19	5	97	36	283	3.9	2.0
7/08/2022	18	0	99	42	250	2.2	0.0
8/08/2022	17	3	89	46	193	2.0	0.0
9/08/2022	15	1	97	54	204	2.6	0.0
10/08/2022	18	2	97	43	169	2.6	0.0
11/08/2022	15	2	100	63	168	1.4	0.0
12/08/2022	15	4	100	78	153	1.6	9.2
13/08/2022	19	3	100	41	259	3.1	5.6
14/08/2022	16	1	89	51	290	4.8	0.0
15/08/2022	17	2	91	45	282	4.1	0.0
16/08/2022	18	1	97	36	248	2.8	0.0
17/08/2022	20	1	98	40	245	1.8	0.0
18/08/2022	20	0	100	44	258	3.1	0.0
19/08/2022	20	3	91	45	274	3.1	1.6
20/08/2022	19	-1	90	37	290	3.3	0.0
21/08/2022	19	2	95	37	164	1.5	0.0
22/08/2022	21	-1	100	37	276	2.9	0.0
23/08/2022	22	-1	99	43	245	3.6	5.0
24/08/2022	17	0	94	29	263	2.6	0.6
25/08/2022	18	1	93	43	250	2.8	0.0
26/08/2022	19	3	97	54	168	2.2	0.0
27/08/2022	20	3	99	46	161	2.5	0.0
28/08/2022	22	3	100	44	155	2.1	0.0
29/08/2022	21	3	100	53	179	1.6	0.4
30/08/2022	20	5	100	58	231	2.3	0.0
31/08/2022	21	1	100	41	177	1.9	0.0

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