



# Monthly Environmental Monitoring Report

Yancoal Mount Thorley Warkworth

July 2025

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## Revision History

Version No.	Version Details	Date
1.0	Final	24/10/2025

## 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 July to 31 July 2025.

## 2.0 AIR QUALITY

### 2.1 Meteorological Monitoring

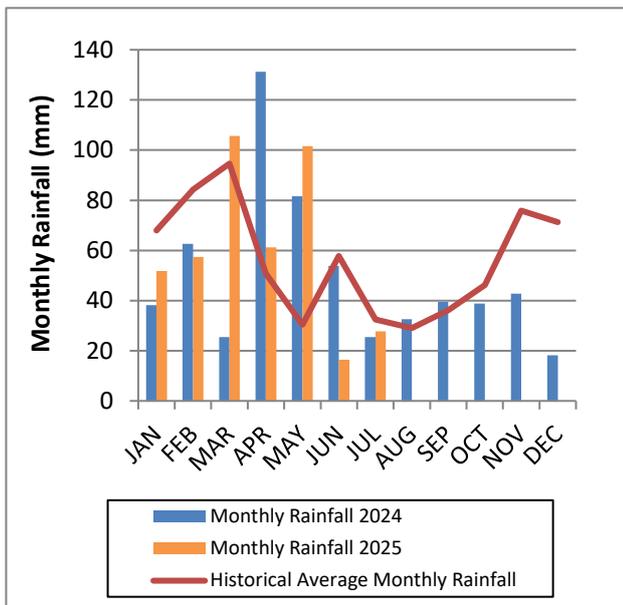
Meteorological data is collected at MTW's 'Charlton Ridge' meteorological station (refer to **Figure 3**).

#### 2.1.1 Rainfall

Rainfall for the reporting period is summarised in **Table 1**. The year-to-date monthly rainfall totals, 2025 monthly rainfall totals and historical average monthly rainfall trend are shown in **Figure 1**.

**Table 1: Monthly Rainfall MTW**

2025	Monthly Rainfall (mm)	Cumulative Rainfall (mm)
July	27.8	421.8

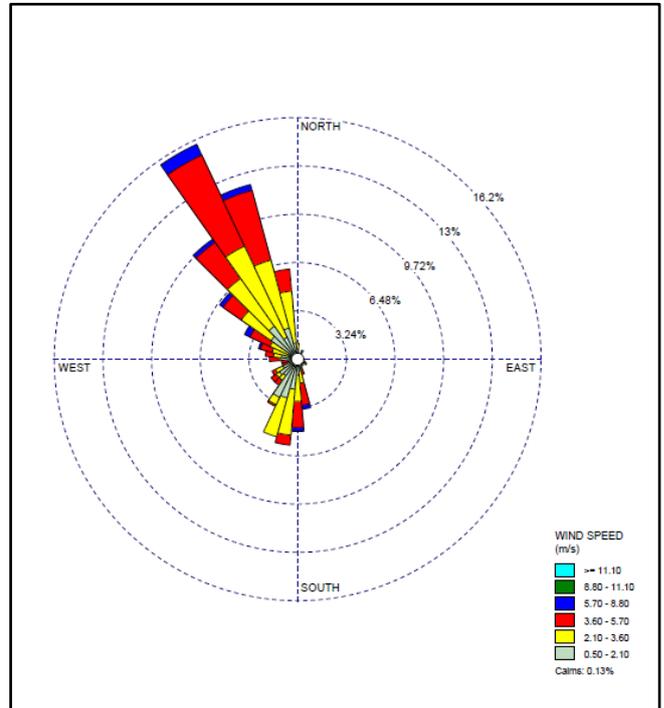


**Figure 1: Rainfall Trend YTD**

*Note: The historical average monthly rainfall is calculated from 2007 to 2024 monthly totals.*

### 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 – July 2025**

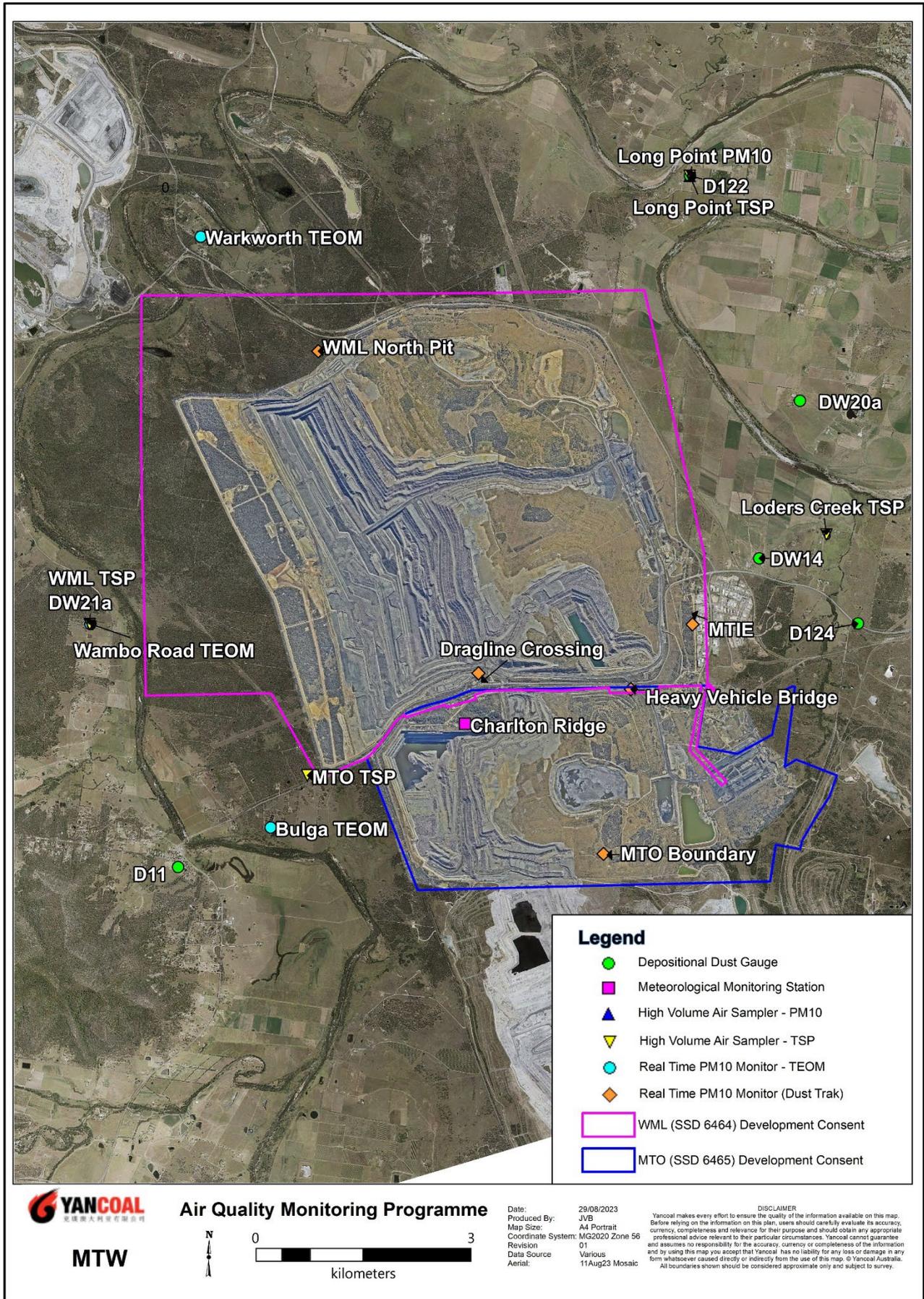


Figure 3: Air Quality Monitoring Locations

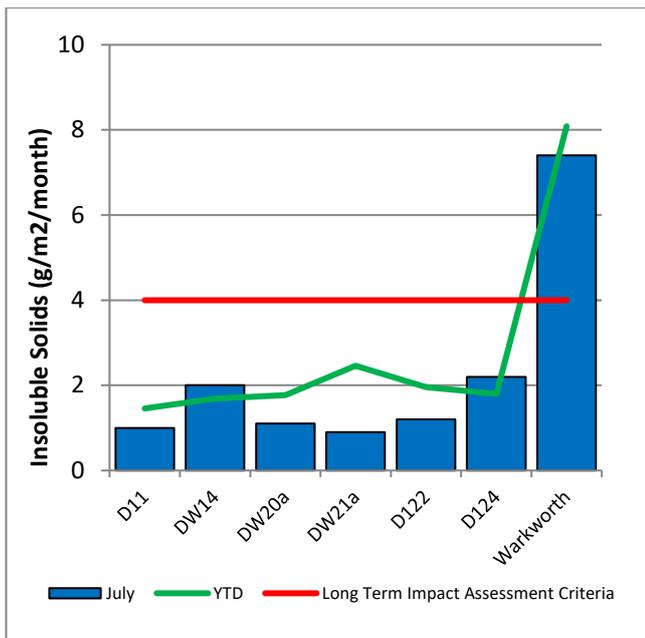
## 2.2 Depositional Dust

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 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 2025 Annual Review Report.



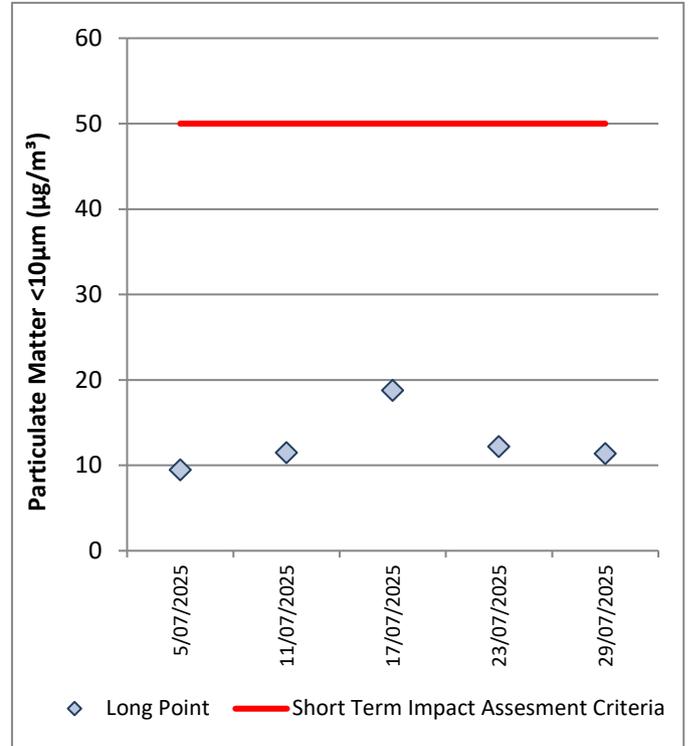
**Figure 4: Depositional Dust – July 2025**

## 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 <10µm (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<sub>10</sub> results at each monitoring station against the short-term impact assessment criteria of 50µg/m<sup>3</sup>.



**Figure 5: Individual PM<sub>10</sub> Results – July 2025**

**Figure 6** shows the annual average PM<sub>10</sub> 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 2025 Annual Review Report.

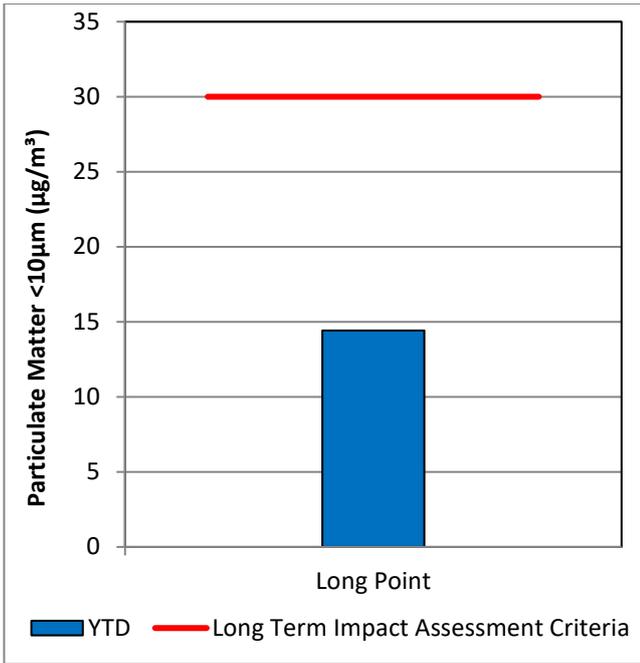


Figure 6: Annual Average PM<sub>10</sub> – July 2025

### 2.3.2 TSP Results

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

An assessment of MTW’s compliance with the Long-Term Impact Assessment Criteria will be provided in the 2025 Annual Review Report.

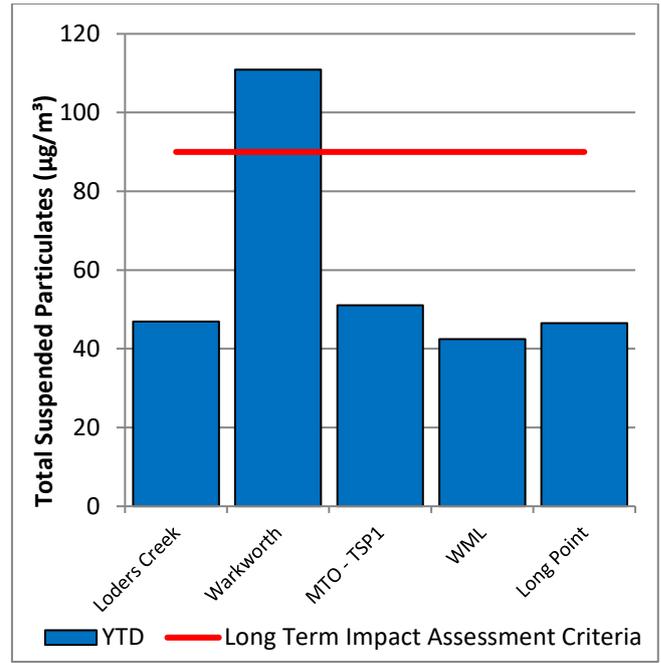


Figure 7: Annual Average Total Suspended Particulates – July 2025

### 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<sub>10</sub> result and the annual PM<sub>10</sub> average.

On 10 July 2025, the Warkworth TEOM (54.5  $\mu\text{g}/\text{m}^3$ ) exceeded the short term (24hr) criteria. The measurement was assessed for MTW’s potential contribution based on meteorological conditions on this day. It was determined that the wind direction was not from MTW’s angle of influence on this day and so that MTW did not contribute to the result. Accordingly, no further action is required.

Data from the Wambo Road monitor was not available on 18 to 22 July or on 29 July due to equipment issues.

### 2.3.4 Real Time Alarms for Air Quality

During July, the real time monitoring system generated 127 automated air quality related alerts, including 20 alerts for adverse meteorological conditions and 107 alerts for elevated PM<sub>10</sub> levels.

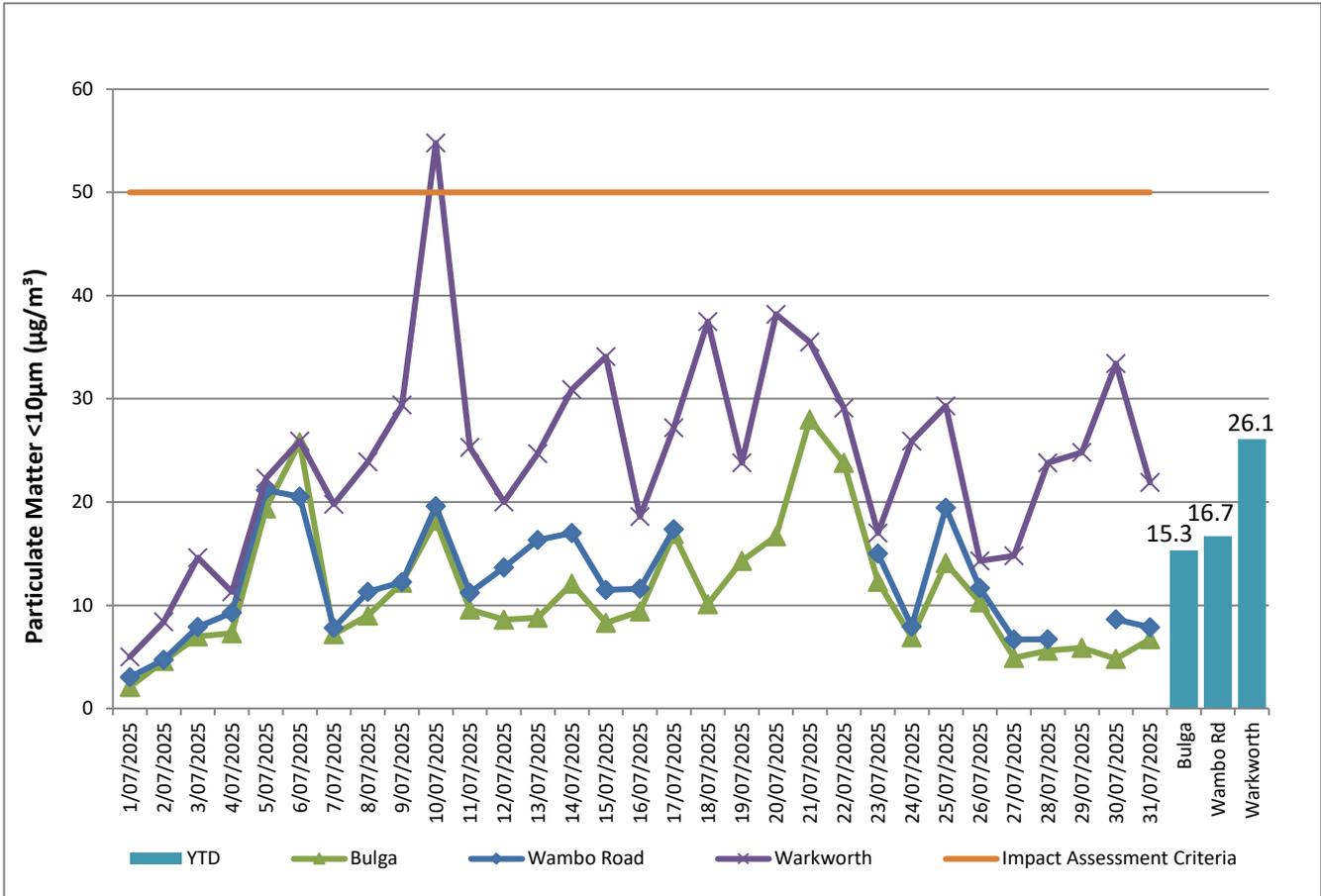


Figure 8: Real Time PM<sub>10</sub> daily 24hr average (line graphs) and YTD annual average (column graphs) – July 2025

### 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 2025 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.

MTW did undertake HRSTS discharges. In July MTW discharged 274.8 ML from Dam 9S during the reporting period.

#### 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 2025 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**.

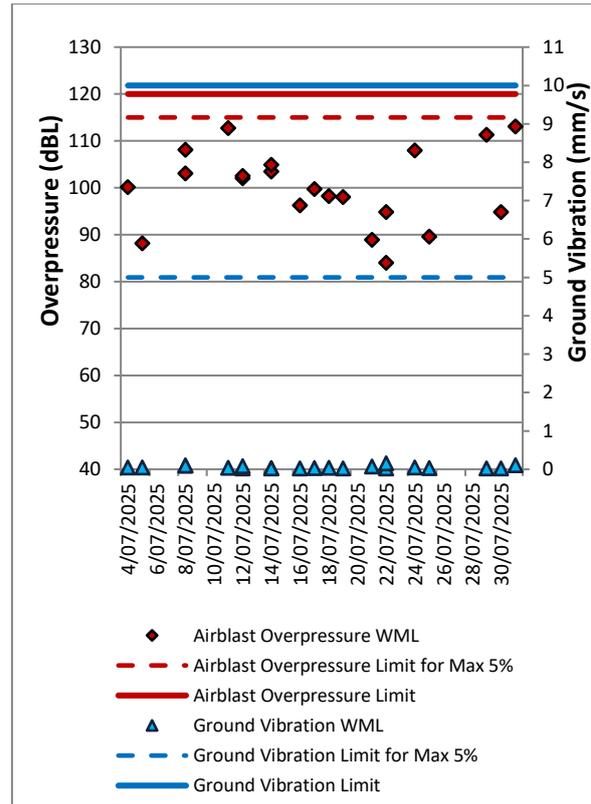
### 4.1 Blast Monitoring Results

During July 2025, 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**.

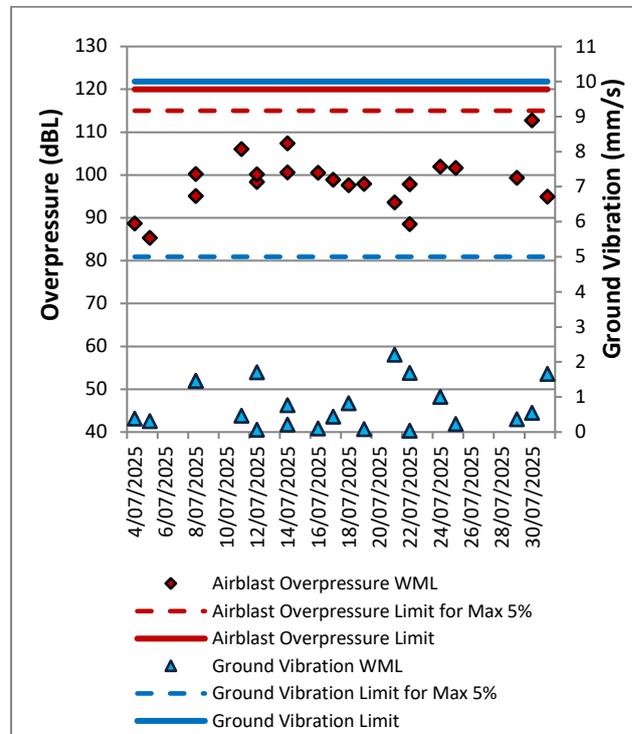
**Table 2: Blasting Limits**

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
5	5% of the total number of blasts in a 12 month period at WML or MTO
10	0%

During the reporting period no blasts exceeded the 5mm/s criteria for ground vibration, or the 115dB(L) threshold for airblast overpressure.



**Figure 9: Abbey Green Blast Monitoring Results – July 2025**



**Figure 10: Bulga Village Blast Monitoring Results – July 2025**

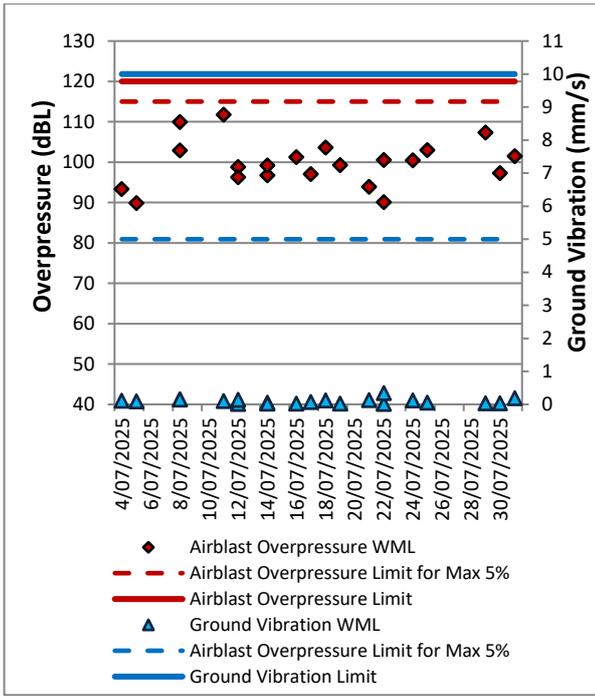


Figure 11: Putty Road MTIE Blast Monitoring Results – July 2025

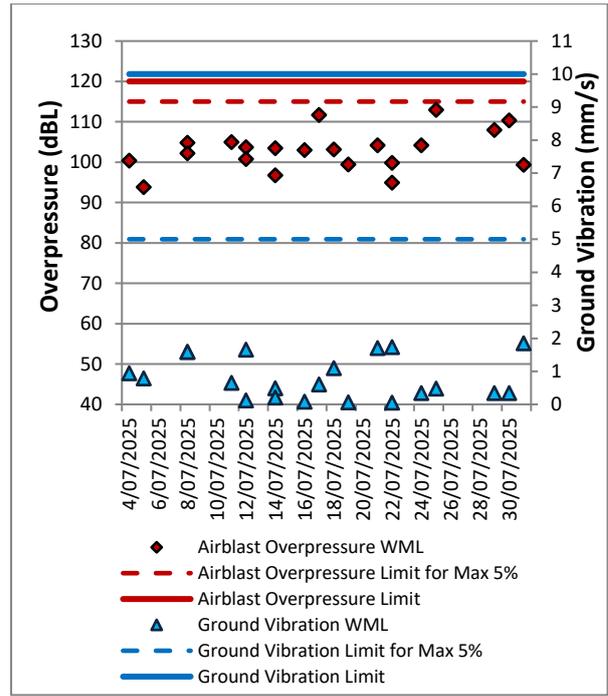


Figure 13: Wambo Road Blast Monitoring Results – July 2025

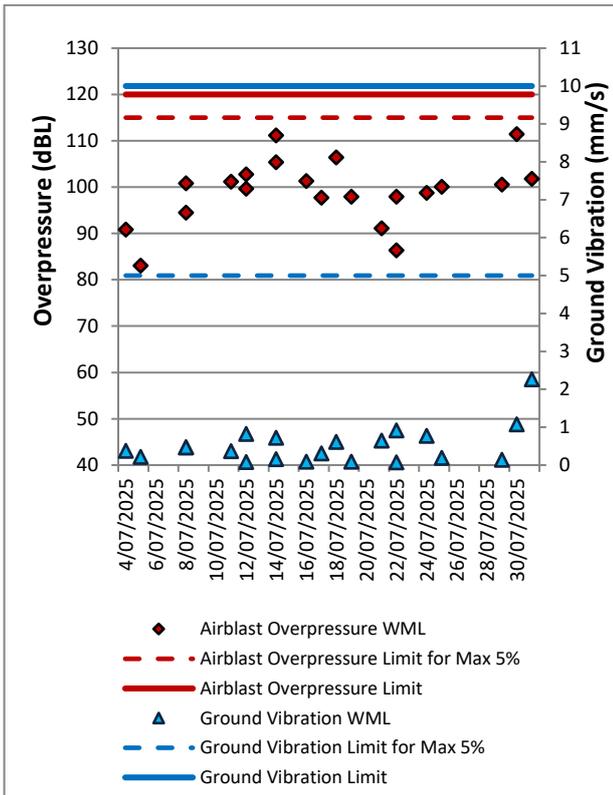


Figure 12: Wollemi Peak Road Blast Monitoring Results – July 2025

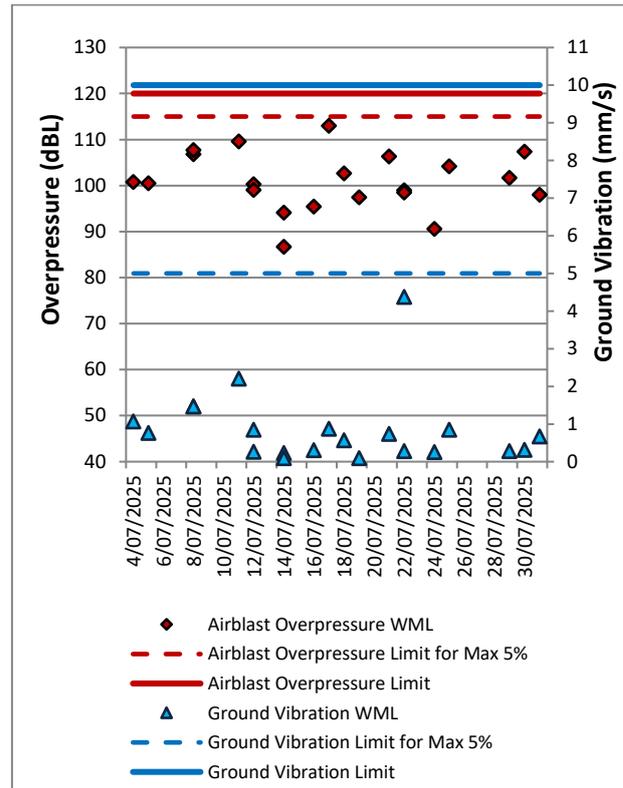


Figure 14: Warkworth Blast Monitoring Results – July 2025

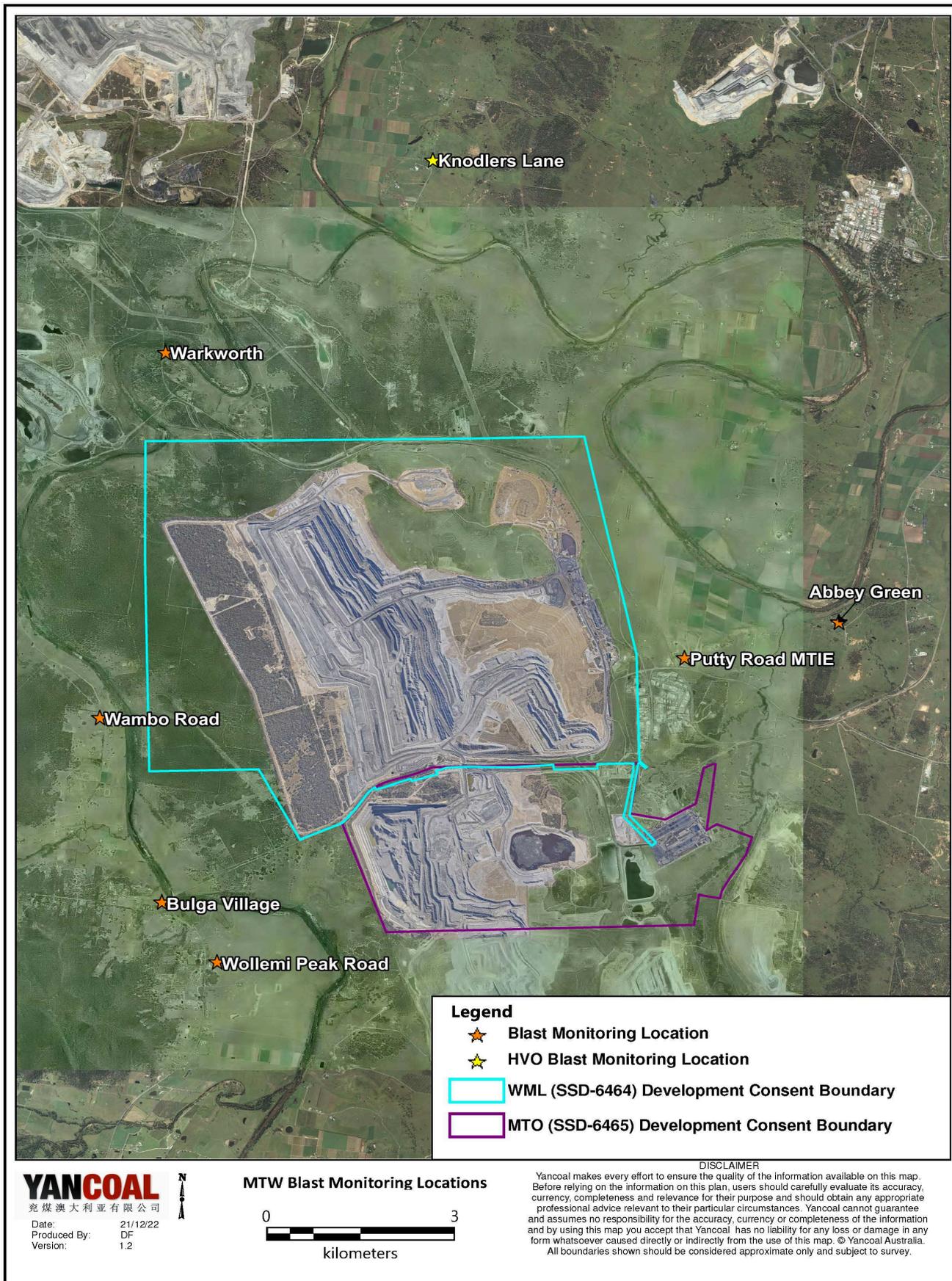


Figure 15: MTW Blast Monitoring Location Plan

## 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 17 July 2025. 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: L<sub>Aeq</sub>, 15 minute Warkworth Impact Assessment Criteria – July 2025**

Location <sup>5</sup>	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</sup>	Exceedance <sup>3,4</sup>
Bulga RFS	17/07/2025 23:50	2.2	F	37	No	IA	N/A
Bulga Village	17/07/2025 22:16	2.5	D	38	Yes	37	Nil
Gouldsville	17/07/2025 21:24	1.5	F	38	Yes	25	Nil
Inlet Road	17/07/2025 21:20	1.3	F	37	Yes	29	Nil
Inlet Road West	17/07/2025 21:00	1.2	D	35	Yes	<25	Nil
Long Point	17/07/2025 21:00	1.2	D	35	Yes	<20	Nil
South Bulga	17/07/2025 23:08	1.8	E	35	Yes	IA	Nil
Wambo Road	17/07/2025 21:55	1.5	F	38	Yes	29	Nil

Notes:

1. Noise criteria apply during all meteorological conditions except the following: 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 L<sub>Aeq</sub>,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. Follow up measurement after measured exceedance.

**Table 4: LA1, 1 minute Warkworth - Impact Assessment Criteria – July 2025**

Location <sup>5</sup>	Date and Time	Wind Speed (m/s)	Stability Class	Criterion dB(A)	Criterion Applies? <sup>1</sup>	WML LA1, 1min dB <sup>2,3</sup>	Exceedance <sup>3,4</sup>
Bulga RFS	17/07/2025 23:50	2.2	F	47	No	IA	N/A
Bulga Village	17/07/2025 22:16	2.5	D	48	Yes	39	Nil
Gouldsville	17/07/2025 21:24	1.5	F	48	Yes	30	Nil
Inlet Road	17/07/2025 21:20	1.3	F	47	Yes	30	Nil
Inlet Road West	17/07/2025 21:00	1.2	D	45	Yes	28	Nil
Long Point	17/07/2025 21:00	1.2	D	45	Yes	<20	Nil
South Bulga	17/07/2025 23:08	1.8	E	45	Yes	IA	Nil
Wambo Road	17/07/2025 21:55	1.5	F	48	Yes	35	Nil

Notes:

1. Noise criteria apply during all meteorological conditions except the following: 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 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. Follow up measurement after measured exceedance.

## 5.1.2 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 – July 2025**

Location <sup>5</sup>	Date and Time	Wind Speed (m/s)	Stability Class	Criterion dB	Criterion Applies? <sup>1</sup>	MTO LAeq dB <sup>2,3</sup>	Exceedance <sup>3,4</sup>
Bulga RFS	17/07/2025 23:50	2.2	F	37	No	30	N/A
Bulga Village	17/07/2025 22:16	2.5	D	38	Yes	IA	Nil
Gouldsville	17/07/2025 21:24	1.5	F	35	Yes	IA	Nil
Inlet Road	17/07/2025 21:20	1.3	F	37	Yes	<25	Nil
Inlet Road West	17/07/2025 21:00	1.2	D	35	Yes	IA	Nil
Long Point	17/07/2025 21:00	1.2	D	35	Yes	<20	Nil
South Bulga	17/07/2025 23:08	1.8	E	36	Yes	<20	Nil
Wambo Road	17/07/2025 21:55	1.5	F	38	Yes	<25	Nil

Notes:

1. Noise criteria apply during all meteorological conditions except the following: 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. Follow up measurement after measured exceedance.

**Table 6: LA1, 1Minute Mount Thorley - Impact Assessment Criteria – July 2025**

Location <sup>5</sup>	Date and Time	Wind Speed (m/s)	Stability Class	Criterion dB	Criterion Applies? <sup>1</sup>	MTO LA1, 1min dB <sup>2,3</sup>	Exceedance <sup>3,4</sup>
Bulga RFS	17/07/2025 23:50	2.2	F	47	No	32	N/A
Bulga Village	17/07/2025 22:16	2.5	D	48	Yes	IA	Nil
Gouldsville	17/07/2025 21:24	1.5	F	45	Yes	IA	Nil
Inlet Road	17/07/2025 21:20	1.3	F	47	Yes	<25	Nil
Inlet Road West	17/07/2025 21:00	1.2	D	45	Yes	IA	Nil
Long Point	17/07/2025 21:00	1.2	D	45	Yes	<20	Nil
South Bulga	17/07/2025 23:08	1.8	E	46	Yes	<20	Nil
Wambo Road	17/07/2025 21:55	1.5	F	48	Yes	<25	Nil

Notes:

1. Noise criteria apply during all meteorological conditions except the following: 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. Follow up measurement after measured exceedance.

### 5.1.3 NPfl Low Frequency Assessment

In accordance with the requirements of the EPA’s Noise Policy for Industry (NPfl), 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 – July 2025**

Location <sup>3</sup>	Date and Time	Measured WML LAeq dB	Criterion Applies?	Intermittency Modifying Factor? <sup>1</sup>	Tonality Modifying Factor? <sup>1</sup>	Frequency of Tonality <sup>1</sup>	Low-frequency Modifying Factor?	Maximum Exceedance of Reference Spectrum <sup>1,2</sup>	Penalty dB <sup>2</sup>
Bulga RFS	17/07/2025 23:50	IA	No	N/A	N/A	N/A	N/A	N/A	N/A
Bulga Village	17/07/2025 22:16	37	Yes	No	No	N/A	No	N/A	Nil
Gouldsville	17/07/2025 21:24	25	Yes	No	No	N/A	No	N/A	Nil
Inlet Road	17/07/2025 21:20	29	Yes	No	No	N/A	No	N/A	Nil
Inlet Road West	17/07/2025 21:00	<25	Yes	No	No	N/A	No	N/A	Nil
Long Point	17/07/2025 21:00	<20	Yes	No	No	N/A	No	N/A	Nil
South Bulga	17/07/2025 23:08	IA	Yes	No	No	N/A	No	N/A	Nil
Wambo Road	17/07/2025 21:55	29	Yes	No	No	N/A	No	N/A	Nil

*Notes:*

1. Yes/No denote modifying factor was or was not applied. NA denotes 'not applicable'; and
2. Bold results indicate that application of NPfl modifying factor/s is required.
3. Follow up measurement within one week of measured exceedance.

**Table 8: Mount Thorley Operations Low Frequency Noise Assessment – July 2025**

Location <sup>3</sup>	Date and Time	Measured MTO LAeq dB	Criterion Applies?	Intermittency Modifying Factor? <sup>1</sup>	Tonality Modifying Factor? <sup>1</sup>	Frequency of Tonality <sup>1</sup>	Low-frequency Modifying Factor? <sup>1</sup>	Maximum Exceedance of Reference Spectrum <sup>1,2</sup>	Penalty dB <sup>2</sup>
Bulga RFS	17/07/2025 23:50	30	No	N/A	N/A	N/A	N/A	N/A	N/A
Bulga Village	17/07/2025 22:16	IA	Yes	No	No	N/A	No	N/A	Nil
Gouldsville	17/07/2025 21:24	IA	Yes	No	No	N/A	No	N/A	Nil
Inlet Road	17/07/2025 21:20	<25	Yes	No	No	N/A	No	N/A	Nil
Inlet Road West	17/07/2025 21:00	IA	Yes	No	No	N/A	No	N/A	Nil
Long Point	17/07/2025 21:00	<20	Yes	No	No	N/A	No	N/A	Nil
South Bulga	17/07/2025 23:08	<20	Yes	No	No	N/A	No	N/A	Nil
Wambo Road	17/07/2025 21:55	<25	Yes	No	No	N/A	No	N/A	Nil

**Notes:**

1. Yes/No denote modifying factor was or was not applied. NA denotes 'not applicable'; and

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

3. Follow up measurement within one week of measured exceedance.

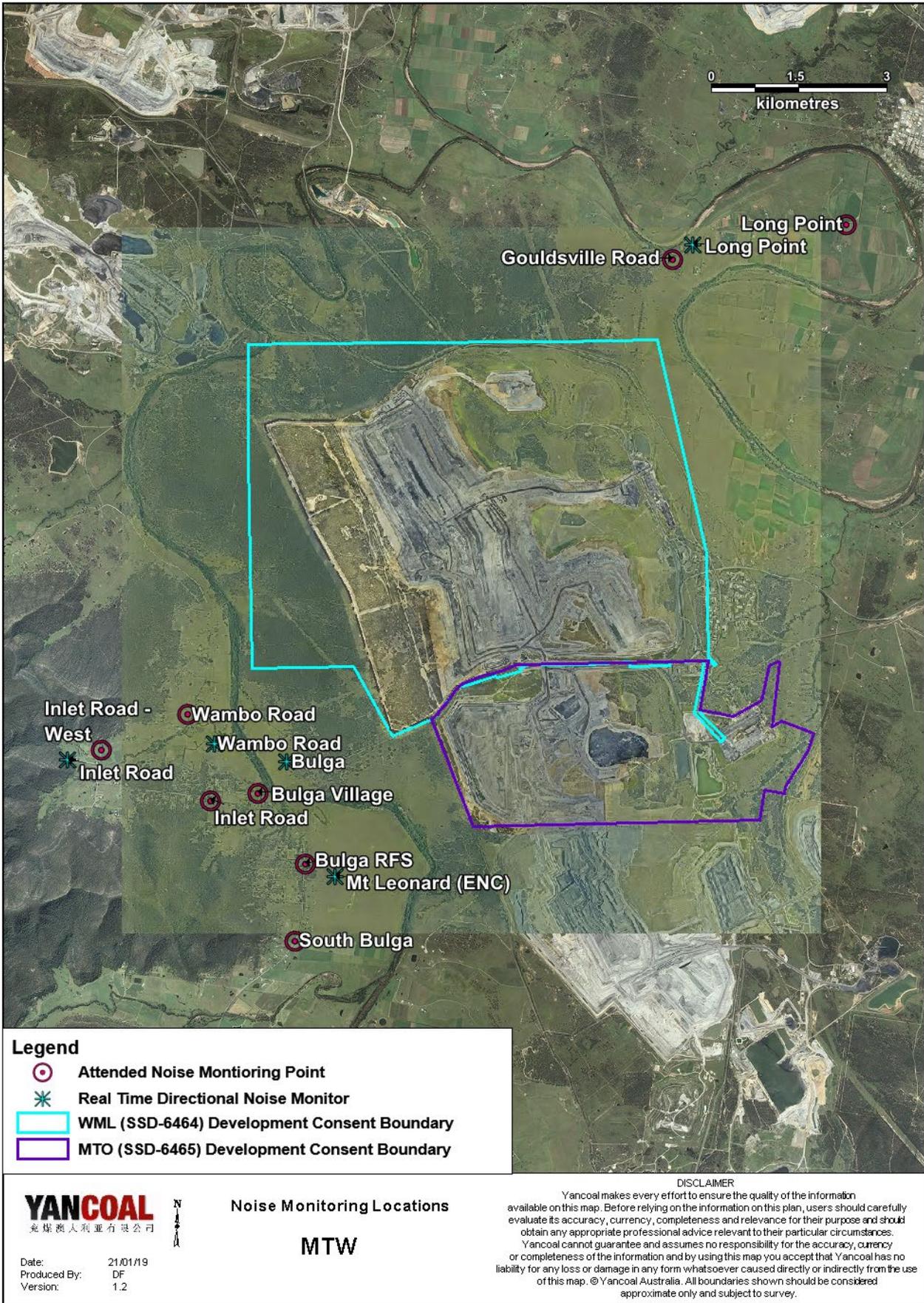


Figure 16: Noise Monitoring Location Plan

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

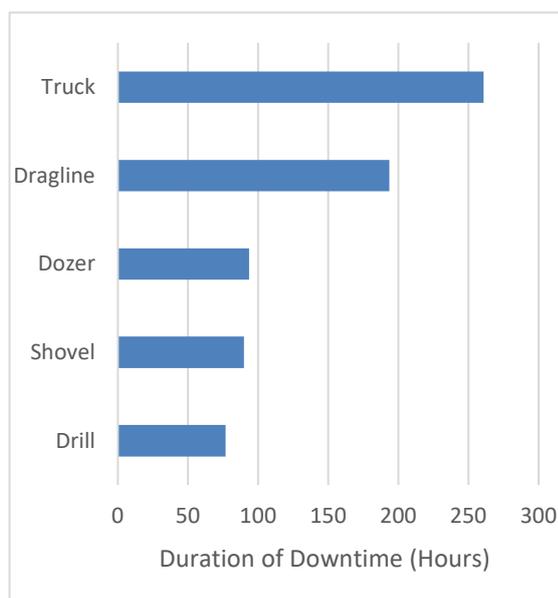
**Table 9: Supplementary Attended Noise Monitoring Data – July 2025**

No. of assessments	No. of assessments > trigger	No. of nights where assessments > trigger	% greater than trigger
734	18	6	2.5

## 6.0 OPERATIONAL DOWNTIME

During July, a total of 716 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 – July 2025**



## 7.0 REHABILITATION

During July 2025, 6.5 Ha of land was released, 9.0 Ha was bulk shaped, 4.4 Ha was topsoiled and 20.8 Ha was composted.

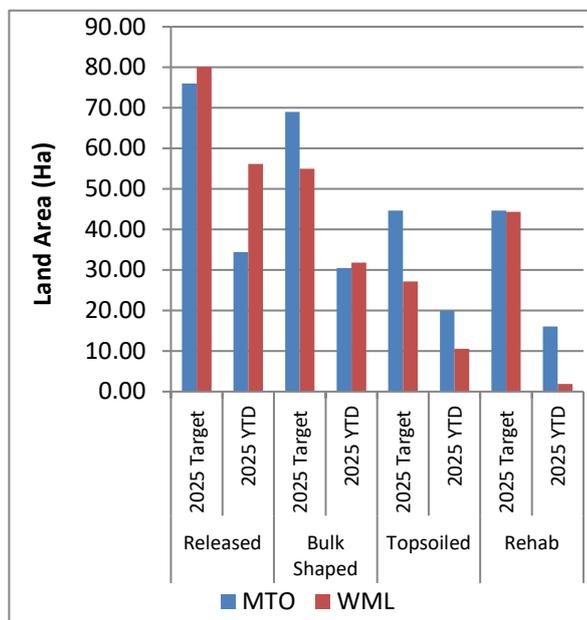


Figure 18: Rehabilitation YTD – July 2025

## 8.0 ENVIRONMENTAL INCIDENTS

There were no environmental incidents recorded during the reporting period.

## 9.0 COMPLAINTS

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

Table 10: Complaints Summary YTD

	Noise	Dust	Blast	Lighting	Other	Total
January	0	3	3	2	0	8
February	2	0	3	2	1	8
March	8	2	5	1	0	16
April	6	4	7	0	0	17
May	4	0	3	0	0	7
June	2	11	1	0	0	14
July	3	3	2	3	2	13
August						
September						
October						
November						
December						
<b>Total</b>	25	23	24	8	3	83

## **Appendix A: Meteorological Data**

**Table 11: Meteorological Data – Charlton Ridge Meteorological Station –July 2025**

Date	Air Temperature		Relative Humidity		Wind Direction	Wind Speed	Rainfall
	Maximum (°C)	Minimum (°C)	Maximum (%)	Minimum (%)	Average (°)	Average (m/sec)	total (mm)
1/07/2025	13	7	100	67	253	4.0	16.6
2/07/2025	16	7	99	57	277	3.9	0.6
3/07/2025	18	7	87	53	305	3.6	0.0
4/07/2025	17	4	100	51	270	2.7	0.0
5/07/2025	15	3	100	64	199	1.5	0.0
6/07/2025	21	6	100	53	227	1.7	0.0
7/07/2025	17	6	92	45	296	2.8	0.0
8/07/2025	16	6	92	47	294	3.7	0.0
9/07/2025	20	7	78	39	259	2.0	0.0
10/07/2025	15	8	61	35	287	4.7	0.0
11/07/2025	18	6	79	42	292	3.8	0.0
12/07/2025	18	5	91	45	261	2.4	0.0
13/07/2025	18	2	100	37	290	3.3	0.0
14/07/2025	20	6	63	29	276	3.8	0.0
15/07/2025	14	3	91	56	297	2.6	0.0
16/07/2025	15	1	100	40	272	2.2	0.0
17/07/2025	16	0	100	37	249	1.7	0.0
18/07/2025	17	6	85	53	181	3.1	0.0
19/07/2025	17	4	100	40	199	2.2	0.0
20/07/2025	16	1	100	38	232	2.0	0.0
21/07/2025	19	5	100	56	177	2.0	0.0
22/07/2025	18	6	100	51	175	1.2	0.2
23/07/2025	18	7	100	41	220	2.1	4.0
24/07/2025	15	3	95	44	274	2.5	0.0
25/07/2025	16	-1	100	37	182	1.6	0.0
26/07/2025	17	7	100	68	216	2.8	4.2
27/07/2025	17	9	92	52	287	4.8	0.4
28/07/2025	15	8	87	53	297	4.6	0.0
29/07/2025	17	8	82	41	282	2.7	0.0
30/07/2025	11	6	100	69	188	2.7	1.6
31/07/2025	15	7	97	55	181	4.4	0.2