



Mount Thorley Warkworth EPL Monitoring Data

Published 26 February 2020 FOR THE MONTH ENDING 31 January 2020

| Name of Operation | Mount Thorley Coal Loader | | | | |
|--------------------------------|-------------------------------------------------------------------------------|--|--|--|--|
| Environment Protection Licence | 24 | | | | |
| Licensee | Mount Thorley Coal Loading Ltd | | | | |
| | Mount Thorley Coal Loading Ltd | | | | |
| Premises | Mount Thorley Road, Mount Thorley Via Singleton NSW 2330 | | | | |
| | http://app.epa.nsw.gov.au/prpoeoapp/Vi | | | | |
| EPL Link | ewPOEOLicence.aspx?DOCID=89660&SYS | | | | |
| | UID=1&LICID=24 | | | | |
| Name of Operation | Mount Thorley Operations | | | | |
| Environment Protection Licence | 1976 | | | | |
| Licensee | Mount Thorley Operations Pty Limited | | | | |
| | Mount Thorley Operations | | | | |
| Premises | Mount Thorley Road | | | | |
| | Mount Thorley NSW 2330 | | | | |
| FPL Link | https://apps.epa.nsw.gov.au/prpoeoapp/ ViewPOEOLicence.aspx?DOCID=161559&S | | | | |
| LF L LIIIK | YSUID=1&LICID=1976 | | | | |
| Name of Operation | Warkworth Coal Mine | | | | |
| Environment Protection Licence | 1376 | | | | |
| Licensee | Warkworth Mining Ltd | | | | |
| | Warkworth Coal Mine | | | | |
| Premises | Putty Road | | | | |
| | Mount Thorley NSW 2330 | | | | |
| | https://apps.epa.nsw.gov.au/prpoeoapp/ | | | | |
| EPL Link | ViewPOEOLicence.aspx?DOCID=160262&S | | | | |
| | YSUID=1&LICID=1376 | | | | |

1 INTRODUCTION

This report provides a summary of environmental monitoring results for Mount Thorley Warkworth (MTW) in accordance with the requirements of the following Environment Protection Licences (EPL):

- EPL24 Mount Thorley Coal Loader (MTCL);
- EPL1376 Warkworth Mining Limited (WML); and
- EPL1976 Mount Thorley Operations (MTO).

This report includes all monitoring data collected in accordance with the above licences for the period 1 to 31 January 2020.

Monitoring in this report includes:

- Air quality monitoring;
- Surface water monitoring including mine water discharge and effluent quality; and
- Blast monitoring.

Monitoring locations are shown in **Figure 1**.

2 AIR QUALITY

In accordance with the requirements of Condition M2.2 of WML EPL 1376 and MTO EPL 1976, MTW maintains a network of five PM_{10} monitors.

Results of Particulates (PM_{10}) monitoring are shown in **Table 1**. Results reported represent the 24hr average PM_{10} , derived from 10 minute PM_{10} values for the period midnight to midnight, for each calendar date during the reporting period. The last sampling date was 31 January 2020 and the data was obtained on 1 February 2020.

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TABLE 1: PARTICULATE MATTER < 10 µM MONITORING

| | | Monitoring | | | Monitoring Point | | |
|------------|-----------------|------------------------|------------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------|
| Date | Unit of Measure | Frequency & Capture | Warkworth North (EPA ID # 9 - WML EPL 1376) | MTO Boundary (EPA ID # 13 - MTO EPL 1976) | Dragline Crossing (EPA ID # 10 - WML EPL 1376 & MTO EPL 1976) | Heavy Vehicle Bridge (EPA ID # 11 - WML EPL 1376 & MTO EPL 1976) | MTIE (EPA ID # 12 - WML EPL 1376 & EPA ID #19 - MTO EPL 1976) |
| 1/01/2020 | μg/m³ | | 81.1 | 69.5 | 81.6 | 75.0 | 79.6 |
| 2/01/2020 | μg/m³ | | 94.1 | 102.9 | 95.0 | 101.9 | 106.3 |
| 3/01/2020 | μg/m³ | | 45.5 | 39.4 | 43.9 | 42.2 | 44.1 |
| 4/01/2020 | μg/m³ | | 53.0 | 97.3 | 179.2 | 68.3 | 63.5 |
| 5/01/2020 | μg/m³ | | 101.4 | 101.4 | 100.6 | 104.4 | 109.1 |
| 6/01/2020 | μg/m³ | | 41.2 | 36.0 | 35.6 | 37.2 | 42.0 |
| 7/01/2020 | μg/m³ | | 48.1 | 40.5 | 51.9 | 46.6 | 52.1 |
| 8/01/2020 | μg/m³ | | 122.4 | 115.8 | 124.8 | 120.9 | 131.7 |
| 9/01/2020 | μg/m³ | | 93.5 | 85.2 | 89.0 | 87.9 | 97.3 |
| 10/01/2020 | μg/m³ | | 39.9 | 40.4 | 55.6 | 43.2 | 42.3 |
| 11/01/2020 | μg/m³ | Continuous | 69.5 | 64.5 | 72.0 | 68.1 | 74.6 |
| 12/01/2020 | μg/m³ | - | 91.6 | 84.1 | 85.5 | 85.4 | 89.6 |
| 13/01/2020 | μg/m³ | - | 43.1 | 35.3 | 35.5 | 36.9 | 40.0 |
| 14/01/2020 | μg/m³ | - | 23.8 | 19.1 | 18.8 | 19.9 | 19.9 |
| 15/01/2020 | μg/m³ | | 18.7 | 13.2 | 14.2 | 14.3 | 15.3 |
| 16/01/2020 | μg/m³ | 1 | 27.1 | 32.4 | 34.2 | 27.9 | 29.3 |
| 17/01/2020 | μg/m³ | 1 | 72.0 | 57.9 | 59.1 | 59.3 | 66.7 |
| 18/01/2020 | μg/m³ | 1 | 50.1 | 43.5 | 44.3 | 43.2 | 53.7 |
| 19/01/2020 | μg/m³ | 1 | 33.8 | 26.5 | 26.9 | 26.6 | 32.3 |
| 20/01/2020 | μg/m³ | 1 | 16.2 | 15.2 | 21.4 | 16.9 | 18.3 |
| 21/01/2020 | μg/m³ | 1 | 15.9 | 16.4 | 27.7 | 17.1 | 17.1 |

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| | | Monitoring | | | Monitoring Point | | |
|--------------------|-----------------|---------------------|------------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------|
| Date Unit of Measu | Unit of Measure | Frequency & Capture | Warkworth North (EPA ID # 9 - WML EPL 1376) | MTO Boundary (EPA ID # 13 - MTO EPL 1976) | Dragline Crossing (EPA ID # 10 - WML EPL 1376 & MTO EPL 1976) | Heavy Vehicle Bridge (EPA ID # 11 - WML EPL 1376 & MTO EPL 1976) | MTIE (EPA ID # 12 - WML EPI 1376 & EPA ID #19 - MTO EPL 1976) |
| 22/01/2020 | μg/m³ | | 18.2 | 13.9 | 26.9 | 14.6 | 16.8 |
| 23/01/2020 | μg/m³ | | 13.4 | 15.6 | 28.4 | 17.0 | 17.4 |
| 24/01/2020 | μg/m³ | | 42.3 | 45.8 | 49.9 | 43.7 | 47.9 |
| 25/01/2020 | μg/m³ | | 27.3 | 23.1 | 24.4 | 26.0 | 27.7 |
| 26/01/2020 | μg/m³ | | 12.0 | 14.3 | 20.7 | 13.4 | 15.5 |
| 27/01/2020 | μg/m³ | | 46.3 | 50.5 | 47.5 | 53.7 | 59.7 |
| 28/01/2020 | μg/m³ | | 16.3 | 21.4 | 23.4 | 16.8 | 18.3 |
| 29/01/2020 | μg/m³ | | 45.0 | 39.6 | 39.3 | 40.6 | 49.5 |
| 30/01/2020 | μg/m³ | | 48.5 | 43.2 | 44.9 | 45.8 | 50.1 |
| 31/01/2020 | μg/m³ | | 22.0 | 20.3 | 25.0 | 20.7 | 22.0 |
| | | | N | Monthly Meaningful Data | | | |
| January | μg/m³ | Minimum* | 12.0 | 13.2 | 14.2 | 13.4 | 15.3 |
| January | μg/m³ | Mean* | 47.5 | 46.0 | 52.5 | 46.3 | 50.0 |
| January | μg/m³ | Maximum* | 122.4 | 115.8 | 179.2 | 120.9 | 131.7 |
| January | μg/m³ | Median* | 43.1 | 39.6 | 43.9 | 42.2 | 44.1 |

^{# 24} hour data unavailable due to equipment or communications issue causing one or more missing 10 minute values

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^{*}Data calculated with missing 10 minute value(s) due to equipment or communication issue MTIE denotes Mount Thorley Industrial Estate

3 SURFACE WATER

3.1 Mine Water Discharge Monitoring

MTW participates in the Hunter River Salinity Trading Scheme (HRSTS) and maintains two monitoring locations associated with this scheme.

MTW did not receive any discharge opportunities in the reporting period and no water was discharged as shown in **Table 2**. As such, no samples were collected during the reporting period as shown in **Table 3**.

TABLE 2: MINE WATER DISCHARGE MONITORING - VOLUME AND MASS LIMITS

| Monitoring Location | Unit of measure | Volume/mass Limit | Volume/mass Discharged | |
|-------------------------------------------------------------------------------|--------------------|-------------------|------------------------|--|
| Dam 1N Discharge / Point 1 (WML EPL 1376) Dam 1N Discharge Point | Megalitres per day | 100 | - | |
| Dam 9S Discharge / EPL Point 4 (MTO EPL 1976) Discharge pipe from Dam 9 | Megalitres per day | 100 | - | |

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TABLE 3: MINE WATER DISCHARGE MONITORING- CONCENTRATION LIMITS

| Discharge Point | Date | Pollutant | Unit of measure | Licence limits | No. of samples required by licence | No. of samples you collected and analysed |
|----------------------------------------------|------|-------------------------|-----------------------------|----------------|------------------------------------|-------------------------------------------|
| Dam 1N Discharge / Point 1 (WML EPL 1376) | | Electrical Conductivity | microsiemens per centimetre | - | 0 | 0 |
| | N/A | рН | рН | 6.5 - 9.0 | 0 | 0 |
| Dam 1N Discharge Point | | Total Suspended Solids | milligrams per litre | 120 | 0 | 0 |
| Dam 9S Discharge / EPL Point 4 | | Electrical Conductivity | microsiemens per centimetre | - | 0 | 0 |
| (MTO EPL 1976) | N/A | рН | рН | 6.5 - 9.0 | 0 | 0 |
| Discharge pipe from Dam 9 | | Total Suspended Solids | milligrams per litre | 120 | 0 | 0 |

3.2 Hunter River Tributaries Monitoring

MTW undertakes monitoring in Loders Creek, in accordance with Condition M2.3 of MTO EPL 1976 as detailed in **Table 4**. Monthly sampling occurred 9 January 2020 and the data was obtained 12 February 2020.

TABLE 4: HUNTER WATER TRIBUTARIES MONITORING

| Monitoring Location | Pollutant | unit of measure | Monitoring frequency required by licence | No. of samples collected and analysed | Value |
|-------------------------------------------|-------------------------|------------------------------|------------------------------------------|---------------------------------------|-------|
| | Electrical Conductivity | microsiemens per centimetre | Once a month | 0 | # |
| W5 – Loders Creek / EPL Point 3 | Liectrical Conductivity | inicrosiemens per centimetre | (min. of 4 weeks) | U | # |
| (MTO EPL 1976) | pH | pH units | Once a month | 0 | # |
| Coal preparation plant access road bridge | ρπ | pri dilits | (min. of 4 weeks) | U | # |
| | Total Suspended Solids | milligrams per litre | Once a month | 0 | # |
| | Total Suspended Solids | minigrams per litre | (min. of 4 weeks) | U | # |

^{# -} Sample unable to be collected due to insufficient water

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3.3 Effluent Quality Monitoring

MTO undertakes monitoring in the MTO receiving lagoon (Dam 1S), in accordance with Condition M2.3 of MTO EPL 1976 as detailed in **Table 5**. Sampling is undertaken on a quarterly basis and as such no sampling was conducted in January 2020.

TABLE 5: MTO EFFLUENT QUALITY MONITORING

| Monitoring Location | Pollutant | unit of measure | Monitoring frequency required by licence | No. of samples collected and analysed | Value |
|-----------------------|------------------|------------------------------------------|------------------------------------------|---------------------------------------|-------|
| Dam 1S / EPL Point 18 | Faecal Coliforms | Colony forming units per 100 millilitres | Once a quarter | - | - |
| (MTO EPL 1976) | рН | pH units | Once a quarter | - | - |

4 BLAST MONITORING

In accordance with the requirements of Conditions M7.1 (WML EPL 1376) and M8.1 (MTO EPL 1976), MTW maintains a network of blast monitors to measure airblast overpressure and ground vibration for all blasts carried out at MTW.

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

Blast monitoring results are detailed in **Table 6** (Airblast Overpressure) and **Table 7** (Ground Vibration). The last date sampled was on 31 January 2019. The data was obtained on 1 February 2020.

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TABLE 6: BLAST MONITORING (AIRBLAST OVERPRESSURE)

| | | | Frequency | EPL L | imits | | | Monitoring Poin | t | |
|----------------------------------|------------------|--------------------|--------------------|------------------|-------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------------------------------|
| Blast ID | Date and Time | Unit of Measure | | 95% of Blasts | 100% of Blasts | Bulga Village EPA ID # 6 (EPL 1376) & EPA ID # 7 (EPL 1976) | Wambo Road EPA ID # 5 (EPL 1376) & EPA ID # 6 (EPL 1976) | Putty Rd MTIE EPA ID # 8 (EPL 1376) & EPA ID # 9 (EPL 1976) | Warkworth EPA ID # 4 (EPL 1376) & EPA ID # 5 (EPL 1976) | Wollemi Peak Road EPA ID # 7 (EPL 1376) & EPA ID # 8 (EPL 1976) |
| w30-bfe-ptg1 | 2/01/2020 13:34 | dB(L) | | 115 | 120 | 98.3 | 99.1 | 99.8 | 102.4 | 98.9 |
| n39-wha-c-co2 | 3/01/2020 12:58 | dB(L) | | 115 | 120 | 92.9 | 96.0 | 104.0 | 106.6 | 93.1 |
| n43-wna-pr5 | 3/01/2020 13:01 | dB(L) | | 115 | 120 | 100.6 | 98.4 | 92.7 | 96.8 | 93.9 |
| n35-wwa-ptg2 & n35- bfb-j-co2 | 7/01/2020 12:46 | dB(L) | | 115 | 120 | 95.1 | 97.6 | 95.6 | 106.0 | 86.6 |
| w30-bfe-ptg2 | 8/01/2020 12:41 | dB(L) | | 115 | 120 | 96.0 | 95.7 | 99.4 | 101.3 | 94.3 |
| w32-wha-c-co1 & n43- wna-pr6 | 10/01/2020 11:30 | dB(L) | | 115 | 120 | 99.0 | 96.6 | 96.3 | 97.0 | 94.9 |
| w32-gmd-ptg1 & n47- rca-ps1 | 13/01/2020 13:01 | dB(L) | All Blasts 100% | 115 | 120 | 101.7 | 104.8 | 108.6 | 93.6 | 102.6 |
| n43-bla-ptg3 | 15/01/2020 11:31 | dB(L) | | 115 | 120 | 99.1 | 96.0 | 105.0 | 96.7 | 94.5 |
| w38-rcd-pr1 | 15/01/2020 12:55 | dB(L) | | 115 | 120 | | 105.1 | 96.5 | 99.3 | 110.4 |
| n39-whf-pr2 | 16/01/2020 12:31 | dB(L) | | 115 | 120 | 94.8 | 103.1 | 103.3 | 100.0 | 112.7 |
| n45-wba-ps1 | 16/01/2020 16:20 | dB(L) | | 115 | 120 | 97.3 | 110.6 | 92.3 | 98.5 | 94.7 |
| w28-mac-j-co2 | 17/01/2020 11:21 | dB(L) | | 115 | 120 | 100.7 | 96.4 | 114.5 | 98.1 | 106.0 |
| n45-wba-ps2 | 18/01/2020 9:36 | dB(L) | | 115 | 120 | 90.0 | 101.8 | 95.4 | 99.1 | 92.0 |

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| | | | | EPL L | imits | Monitoring Point | | | | | |
|--------------------------------|------------------|--------------------|--------------------------------------|------------------|-------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------------------------------|--|
| Blast ID Da | Date and Time | Unit of Measure | Monitoring Frequency & Capture | 95% of Blasts | 100% of Blasts | Bulga Village EPA ID # 6 (EPL 1376) & EPA ID # 7 (EPL 1976) | Wambo Road EPA ID # 5 (EPL 1376) & EPA ID # 6 (EPL 1976) | Putty Rd MTIE EPA ID # 8 (EPL 1376) & EPA ID # 9 (EPL 1976) | Warkworth EPA ID # 4 (EPL 1376) & EPA ID # 5 (EPL 1976) | Wollemi Peak Road EPA ID # 7 (EPL 1376) & EPA ID # 8 (EPL 1976) | |
| n35-bfb-ptg1 | 21/01/2020 11:44 | dB(L) | | 115 | 120 | 102.0 | 107.7 | 113.4 | 104.5 | 107.8 | |
| l54-wnb-md4 | 21/01/2020 12:20 | dB(L) | | 115 | 120 | 97.1 | 100.3 | 93.0 | 103.1 | 97.8 | |
| n35-bfb-j-co3 | 24/01/2020 12:25 | dB(L) | | 115 | 120 | 92.7 | 96.6 | 95.9 | 103.6 | 93.3 | |
| n45-rcf-pr1 | 24/01/2020 12:25 | dB(L) | | 115 | 120 | 99.5 | 102.1 | 98.8 | 103.6 | 103.8 | |
| w35-wnb-ps1 | 25/01/2020 11:15 | dB(L) | | 115 | 120 | 86.6 | 94.0 | 89.2 | 101.7 | 87.8 | |
| n39-gmd-ptg1 | 28/01/2020 13:17 | dB(L) | | 115 | 120 | 93.2 | 100.0 | 95.9 | 99.5 | 107.2 | |
| n35-bfb-h-co1 | 29/01/2020 13:20 | dB(L) | | 115 | 120 | 96.2 | 106.8 | 94.7 | 105.3 | 98.9 | |
| n47-rca-pr1 | 29/01/2020 13:21 | dB(L) | | 115 | 120 | 105.9 | 106.8 | 94.7 | 104.3 | 98.9 | |
| w33-whe-ps1 | 30/01/2020 12:35 | dB(L) | | 115 | 120 | 97.2 | 97.2 | 101.6 | 92.5 | 90.1 | |
| n39-whf-pr3 & n39- gmd-ptg2 | 31/01/2020 11:58 | dB(L) | | 115 | 120 | 96.5 | 95.8 | 101.5 | 103.7 | 89.9 | |
| | | | | Monthly | y Meaningful | Data | | | | | |
| Minimum | January | dB(L) | | 115 | 120 | 86.6 | 94.0 | 89.2 | 92.5 | 86.6 | |
| Mean | January | dB(L) | | 115 | 120 | 97.5 | 100.4 | 99.2 | 100.7 | 97.8 | |
| Maximum | January | dB(L) | | 115 | 120 | 110.3 | 110.6 | 114.5 | 106.6 | 112.7 | |
| Median | January | dB(L) | | 115 | 120 | 97.2 | 99.1 | 96.5 | 101.3 | 94.9 | |

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TABLE 7: BLAST MONITORING (GROUND VIBRATION)

| | | | Monitoring Frequency & Capture | EPL L | imits | | | Monitoring Poin | t | |
|----------------------------------|------------------|--------------------|--------------------------------------|------------------|-------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------------------------------|
| Blast ID | Date and Time | Unit of Measure | | 95% of Blasts | 100% of Blasts | Bulga Village EPA ID # 6 (EPL 1376) & EPA ID # 7 (EPL 1976) | Wambo Road EPA ID # 5 (EPL 1376) & EPA ID # 6 (EPL 1976) | Putty Rd MTIE EPA ID # 8 (EPL 1376) & EPA ID # 9 (EPL 1976) | Warkworth EPA ID # 4 (EPL 1376) & EPA ID # 5 (EPL 1976) | Wollemi Peak Road EPA ID # 7 (EPL 1376) & EPA ID # 8 (EPL 1976) |
| w30-bfe-ptg1 | 2/01/2020 13:34 | mm/s | | 5 | 10 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 |
| n39-wha-c-co2 | 3/01/2020 12:58 | mm/s | | 5 | 10 | 0.0 | 0.1 | 0.0 | 0.1 | 0.0 |
| n43-wna-pr5 | 3/01/2020 13:01 | mm/s | | 5 | 10 | 1.2 | 2.1 | 0.3 | 0.9 | 0.7 |
| n35-wwa-ptg2 & n35- bfb-j-co2 | 7/01/2020 12:46 | mm/s | | 5 | 10 | 0.1 | 0.1 | 0.0 | 0.2 | 0.1 |
| w30-bfe-ptg2 | 8/01/2020 12:41 | mm/s | | 5 | 10 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 |
| w32-wha-c-co1 & n43- wna-pr6 | 10/01/2020 11:30 | mm/s | | 5 | 10 | 1.7 | 1.7 | 0.2 | 1.1 | 0.9 |
| w32-gmd-ptg1 & n47- rca-ps1 | 13/01/2020 13:01 | mm/s | All Blasts 100% | 5 | 10 | 0.5 | 0.8 | 0.1 | 0.3 | 0.7 |
| n43-bla-ptg3 | 15/01/2020 11:31 | mm/s | | 5 | 10 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 |
| w38-rcd-pr1 | 15/01/2020 12:55 | mm/s | | 5 | 10 | 1.4 | 1.5 | 0.2 | 0.5 | 1.5 |
| n39-whf-pr2 | 16/01/2020 12:31 | mm/s | | 5 | 10 | 0.3 | 0.5 | 0.1 | 0.2 | 0.3 |
| n45-wba-ps1 | 16/01/2020 16:20 | mm/s | | 5 | 10 | 0.3 | 0.4 | 0.1 | 0.2 | 0.4 |
| w28-mac-j-co2 | 17/01/2020 11:21 | mm/s | | 5 | 10 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| n45-wba-ps2 | 18/01/2020 9:36 | mm/s | | 5 | 10 | 0.4 | 0.4 | 0.2 | 0.2 | 0.4 |

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| | | Unit of Measure | | EPL Li | imits | Monitoring Point | | | | |
|--------------------------------|------------------|--------------------|--------------------------------------|------------------|-------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------------------------------|
| Blast ID | Date and Time | | Monitoring Frequency & Capture | 95% of Blasts | 100% of Blasts | Bulga Village EPA ID # 6 (EPL 1376) & EPA ID # 7 (EPL 1976) | Wambo Road EPA ID # 5 (EPL 1376) & EPA ID # 6 (EPL 1976) | Putty Rd MTIE EPA ID # 8 (EPL 1376) & EPA ID # 9 (EPL 1976) | Warkworth EPA ID # 4 (EPL 1376) & EPA ID # 5 (EPL 1976) | Wollemi Peak Road EPA ID # 7 (EPL 1376) & EPA ID # 8 (EPL 1976) |
| n35-bfb-ptg1 | 21/01/2020 11:44 | mm/s | | 5 | 10 | 0.0 | 0.1 | 0.0 | 0.2 | 0.0 |
| l54-wnb-md4 | 21/01/2020 12:20 | mm/s | | 5 | 10 | 1.2 | 0.3 | 0.1 | 0.1 | 1.9 |
| n35-bfb-j-co3 | 24/01/2020 12:25 | mm/s | | 5 | 10 | 0.0 | 1.0 | 0.2 | 1.2 | 0.5 |
| n45-rcf-pr1 | 24/01/2020 12:25 | mm/s | | 5 | 10 | 0.6 | 1.0 | 0.2 | 1.2 | 0.5 |
| w35-wnb-ps1 | 25/01/2020 11:15 | mm/s | | 5 | 10 | 0.4 | 0.6 | 0.1 | 0.4 | 0.3 |
| n39-gmd-ptg1 | 28/01/2020 13:17 | mm/s | | 5 | 10 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 |
| n35-bfb-h-co1 | 29/01/2020 13:20 | mm/s | | 5 | 10 | 0.6 | 0.6 | 0.1 | 0.4 | 0.5 |
| n47-rca-pr1 | 29/01/2020 13:21 | mm/s | | 5 | 10 | 0.6 | 0.6 | 0.1 | 0.4 | 0.5 |
| w33-whe-ps1 | 30/01/2020 12:35 | mm/s | | 5 | 10 | 0.2 | 0.2 | 0.1 | 0.1 | 0.3 |
| n39-whf-pr3 & n39- gmd-ptg2 | 31/01/2020 11:58 | mm/s | | 5 | 10 | 0.2 | 0.3 | 0.1 | 0.2 | 0.2 |
| | | | | Monthly | / Meaningful I | Data | | | | |
| Minimum | January | mm/s | | 5 | 10 | 0.03 | 0.02 | 0.02 | 0.02 | 0.03 |
| Mean | January | mm/s | | 5 | 10 | 0.43 | 0.55 | 0.10 | 0.37 | 0.44 |
| Maximum | January | mm/s | | 5 | 10 | 1.73 | 2.09 | 0.32 | 1.19 | 1.91 |
| Median | January | mm/s | | 5 | 10 | 0.27 | 0.41 | 0.07 | 0.20 | 0.34 |

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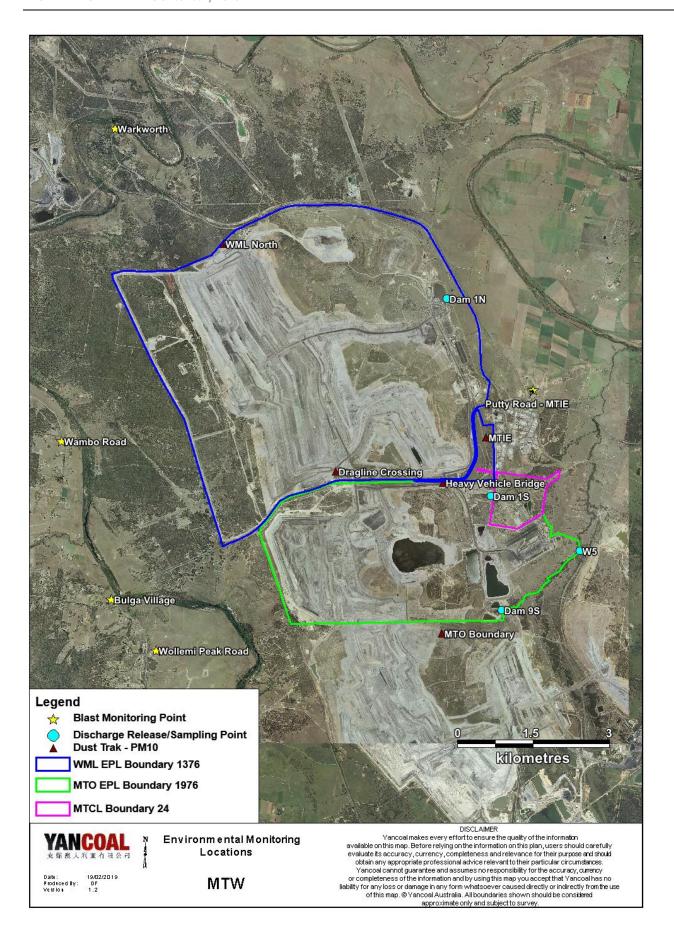


Figure 1: Mount Thorley Warkworth Environmental Monitoring Locations

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