

15 September 2020

Julie Thomas
Environmental Superintendent
Muswellbrook Coal Company Ltd

Dear Julie,

Ambient Air Monitoring - Muscle Creek Rd - August 2020

1.0 Introduction

AECOM Australia Pty Ltd (AECOM) was appointed by Muswellbrook Coal Company Ltd (MCC) to provide static real time atmospheric monitoring for Hydrogen Sulfide (H₂S) and Sulfur Dioxide (SO₂) at one location on Muscle Creek Road, Muswellbrook.

Monitoring is conducted using a GrayWolf Advanced Sense II Probe with Hydrogen Sulfide and Sulfur Dioxide sensors capable of reading in the parts per billion range. Data is recorded as 5 minute average concentrations on an Advanced Sense unit with live data then transmitted to an online account at regular intervals where it can be viewed and downloaded for further analysis by MCC and AECOM staff.

Meteorology data is obtained from the onsite MCC weather station, located approximately 6km to the northwest of the monitoring location. Wind data will be analysed each month with the aim of identifying any trends or relationships between the wind data and monitoring results. Results are reported on a monthly basis with this report presenting results for the period 1 to 31 August 2020.

2.0 Site Location

The monitoring location on Muscle Creek Rd was chosen due to it being downwind of the mine site during the prevailing north westerly winds. Siting was performed in accordance with AS 3580.1.1 2016.



Figure 1 Muscle Creek Rd Monitoring Location

3.0 Assessment Criteria

The gaseous ambient air quality criteria in **Table 1** and **Table 2** are reproduced from the MCC Development Consent (DA 205/2002, Condition 28).

Table 1 H₂S Assessment Criteria

| Analyte Averaging Period | Criteria | Unit |
|----------------------------------|----------|------|
| H ₂ S 1 Hour Average | 500 | ppb |
| H ₂ S 24 Hour Average | 100 | ppb |

Table 2 SO₂ Assessment Criteria

| Analyte Averaging Period | Criteria | Unit |
|---------------------------------|----------|------|
| SO ₂ 1 Hour Average | 200 | ppb |
| SO ₂ 24 Hour Average | 80 | ppb |

4.0 Methodology

Monitoring is typically performed by a GrayWolf Advanced Sense II Probe fitted with H₂S and SO₂ sensors however, following numerous issues with this device it was sent offsite for repairs and an AreaRAE fitted with equivalent sensors was installed on 9 March to perform the monitoring.

On 11 August 2020 during a site visit to download data from the AreaRAE it was discovered that the unit had become waterlogged by recent storms and heavy rainfall in the area. The unit was not functional upon arrival and although extensive efforts were made to recover data between 13 July and 11 August 2020, data for this period was ultimately not able to be recovered. Given this, there is no data available for the period 1 August to 11 August 2020.

At the request of MCC the GrayWolf Advanced Sense unit was re-installed onsite on 11 August 2020 following its return from repairs. Issues with the unit persist since the re-installation with the unit failing to log continuously, requiring regular site visits to restart the unit. Efforts are continuing with GrayWolf to achieve a reliable solution.

The unit is enclosed in a weatherproof case with the sensor at a height of approximately 1.8m above the ground.

The GrayWolf Advanced Sense monitor measures gasses in parts per million (ppm) with the following limits of detection (LOD).

- H₂S: 0.01 ppm; and
- SO₂: 0.01 ppm.

Readings are logged in parts per million (ppm) and are converted to parts per billion (ppb) for reporting purposes, with the LOD's being 10 ppb for both H₂S and SO₂. For the calculation of 1hr and 24hr averages, where the instrument returns a zero reading, half the instrument LOD value is used (5 ppb).

5.0 Results

A summary of the H₂S and SO₂ results for August 2020 is presented in **Table 3**. **Table 4** provides a summary of 24hr (midnight to midnight) averages along with maximum 1hr averages for each day. Data is shown graphically against the relevant criteria in **Figure 2** and **Figure 3** with 1 hour data attached in **Tables 5** and **6**. It should be noted that the plots present 1 hour rolling averages calculated from raw data.

Table 3 Gaseous Monitoring Results – August 2020

| Parameter | Units | Hydrogen Sulfide (H ₂ S) | Sulfur Dioxide (SO ₂) |
|---------------------------------|-------|-------------------------------------|-----------------------------------|
| Maximum 1 Hour Average | ppb | 5.2 | 64.2 |
| Maximum 24 Hour Average | ppb | 5* | 5.6 |
| Number of Exceedances – 1 Hour | - | 0 | 0 |
| Number of Exceedances – 24 Hour | - | 0 | 0 |

* All raw data returned less than the instrument limit of detection. Half of the LOD value reported. Refer **Section 4.0**.

There were no exceedances of the applicable criteria for either H₂S or SO₂ for the August 2020 monitoring period. Due to the logging issues discussed in **Section 4.0** the data capture rates for August 2020 were 21.73% for both H₂S and SO₂.

Table 4 24hr Averages (Midnight to Midnight) and Maximum 1hr Averages – August 2020

| Date | Hydrogen Sulfide (H ₂ S) (ppb) | | Sulfur Dioxide (SO ₂) (ppb) | |
|---------------------|---|---------------------|---|---------------------|
| | 24hr Average | Maximum 1hr Average | 24hr Average | Maximum 1hr Average |
| 1/08/2020 | No Data | No Data | No Data | No Data |
| 2/08/2020 | No Data | No Data | No Data | No Data |
| 3/08/2020 | No Data | No Data | No Data | No Data |
| 4/08/2020 | No Data | No Data | No Data | No Data |
| 5/08/2020 | No Data | No Data | No Data | No Data |
| 6/08/2020 | No Data | No Data | No Data | No Data |
| 7/08/2020 | No Data | No Data | No Data | No Data |
| 8/08/2020 | No Data | No Data | No Data | No Data |
| 9/08/2020 | No Data | No Data | No Data | No Data |
| 10/08/2020 | No Data | No Data | No Data | No Data |
| 11/08/2020 | No Data | No Data | No Data | No Data |
| 12/08/2020 | No Data | No Data | No Data | No Data |
| 13/08/2020 | Insufficient Data | 5* | Insufficient Data | 5* |
| 14/08/2020 | Insufficient Data | 5* | Insufficient Data | 5* |
| 15/08/2020 | No Data | No Data | No Data | No Data |
| 16/08/2020 | No Data | No Data | No Data | No Data |
| 17/08/2020 | Insufficient Data | 5.2 | Insufficient Data | 5.8 |
| 18/08/2020 | No Data | No Data | No Data | No Data |
| 19/08/2020 | Insufficient Data | 5* | Insufficient Data | 5* |
| 20/08/2020 | Insufficient Data | 5* | Insufficient Data | 5* |
| 21/08/2020 | No Data | No Data | No Data | No Data |
| 22/08/2020 | No Data | No Data | No Data | No Data |
| 23/08/2020 | No Data | No Data | No Data | No Data |
| 24/08/2020 | Insufficient Data | 5* | Insufficient Data | 5* |
| 25/08/2020 | 5* | 5* | 5* | 5* |
| 26/08/2020 | No Data | No Data | No Data | No Data |
| 27/08/2020 | No Data | No Data | No Data | No Data |
| 28/08/2020 | Insufficient Data | 5* | Insufficient Data | 22.9 |
| 29/08/2020 | Insufficient Data | 5* | Insufficient Data | 64.2 |
| 30/08/2020 | Insufficient Data | 5* | Insufficient Data | 5* |
| 31/08/2020 | 5* | 5* | 5.6 | 15.0 |
| Criteria | 100 | 500 | 80 | 200 |
| Capture Rate | 21.73% | | 21.73% | |

* All raw data returned less than the instrument limit of detection. Half of the LOD value reported. Refer **Section 4.0**.

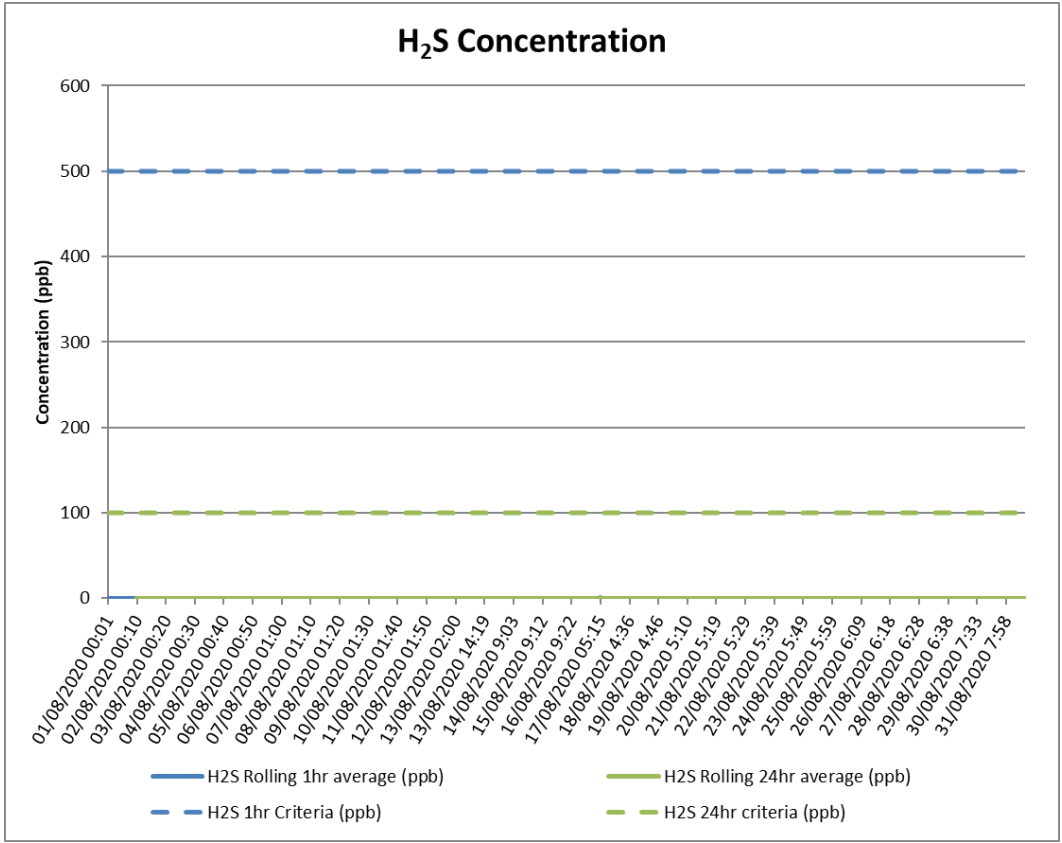


Figure 2 H₂S Concentrations – August 2020

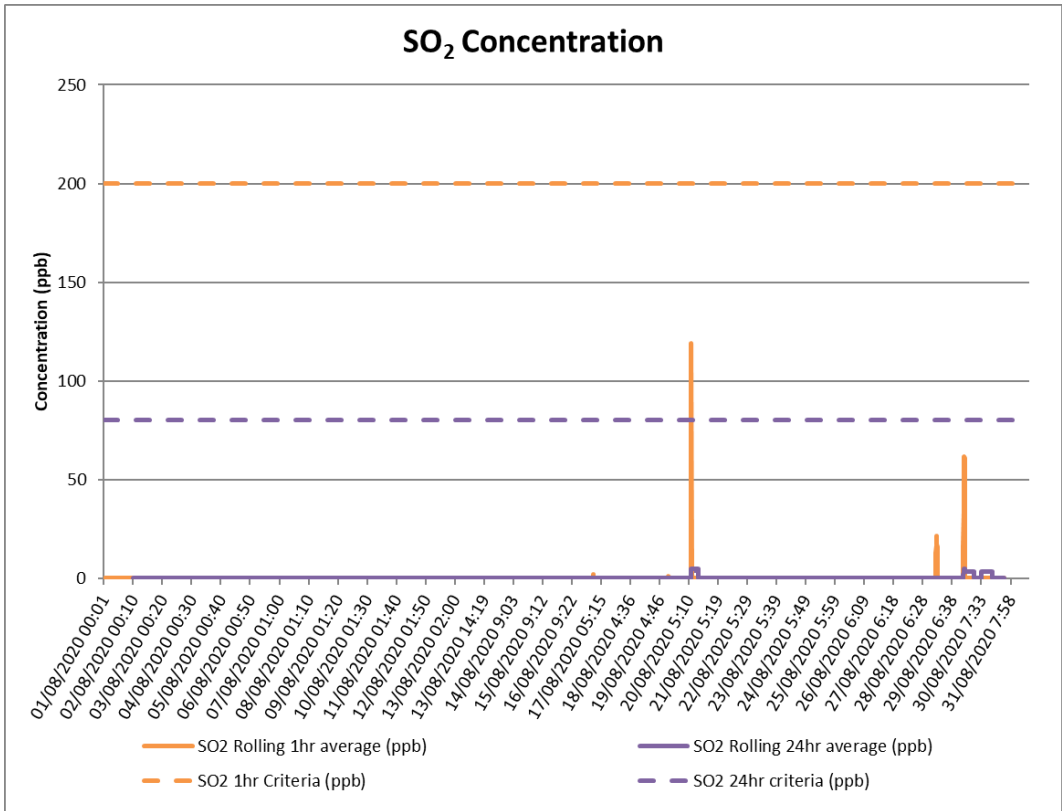


Figure 3 SO₂ Concentrations – August 2020

5.1 Meteorology

Meteorology data sourced from MCC's onsite meteorology station for August indicated winds were predominately from the Northwest quadrant. The average wind speed for the month was 3.32 m/s.

When winds are from the Northwest, the monitoring location is generally down wind of the mine site. A wind rose for this monitoring period can be found attached as **Figure 4**.

6.0 Conclusion

AECOM commenced ambient air quality monitoring on Muscle Creek Rd on 26 July 2017. Monitoring results for the period 1 to 31 August 2020 returned no exceedances of either the 1hr or 24hr criteria for H₂S or SO₂. Both gases recorded data capture rates of 21.73% for August 2020.

Wind data obtained from the MCC meteorology station indicates that winds for this period were predominantly from the Northwest quadrant placing the monitoring location downwind of the mine for a significant portion of the month during August 2020.

Yours faithfully,

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encl: Hourly Monitoring Data, Wind Rose

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Table 5 H₂S 1hr Data (ppb) – August 2020

| Date | Hour | H ₂ S 1hr Average | Date | Hour | H ₂ S 1hr Average | Date | Hour | H ₂ S 1hr Average | Date | Hour | H ₂ S 1hr Average | Date | Hour | H ₂ S 1hr Average |
|----------------|------|------------------------------|-----------|------|------------------------------|-----------|------|------------------------------|-----------|------|------------------------------|-----------|------|------------------------------|
| 1/08/2020 | 0 | No Data | 2/08/2020 | 0 | No Data | 3/08/2020 | 0 | No Data | 4/08/2020 | 0 | No Data | 5/08/2020 | 0 | No Data |
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| 1/08/2020 | 4 | No Data | 2/08/2020 | 4 | No Data | 3/08/2020 | 4 | No Data | 4/08/2020 | 4 | No Data | 5/08/2020 | 4 | No Data |
| 1/08/2020 | 5 | No Data | 2/08/2020 | 5 | No Data | 3/08/2020 | 5 | No Data | 4/08/2020 | 5 | No Data | 5/08/2020 | 5 | No Data |
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| 1/08/2020 | 7 | No Data | 2/08/2020 | 7 | No Data | 3/08/2020 | 7 | No Data | 4/08/2020 | 7 | No Data | 5/08/2020 | 7 | No Data |
| 1/08/2020 | 8 | No Data | 2/08/2020 | 8 | No Data | 3/08/2020 | 8 | No Data | 4/08/2020 | 8 | No Data | 5/08/2020 | 8 | No Data |
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| Maximum | | No Data | | | No Data | | | No Data | | | No Data | | | No Data |

| Date | Hour | H ₂ S 1hr Average | Date | Hour | H ₂ S 1hr Average | Date | Hour | H ₂ S 1hr Average | Date | Hour | H ₂ S 1hr Average | Date | Hour | H ₂ S 1hr Average |
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| 6/08/2020 | 22 | No Data | 7/08/2020 | 22 | No Data | 8/08/2020 | 22 | No Data | 9/08/2020 | 22 | No Data | 10/08/2020 | 22 | No Data |
| 6/08/2020 | 23 | No Data | 7/08/2020 | 23 | No Data | 8/08/2020 | 23 | No Data | 9/08/2020 | 23 | No Data | 10/08/2020 | 23 | No Data |
| Maximum | | No Data | | | No Data | | | No Data | | | No Data | | | No Data |

| Date | Hour | H ₂ S 1hr Average | Date | Hour | H ₂ S 1hr Average | Date | Hour | H ₂ S 1hr Average | Date | Hour | H ₂ S 1hr Average | Date | Hour | H ₂ S 1hr Average |
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| 11/08/2020 | 14 | No Data | 12/08/2020 | 14 | No Data | 13/08/2020 | 14 | No Data | 14/08/2020 | 14 | No Data | 15/08/2020 | 14 | No Data |
| 11/08/2020 | 15 | No Data | 12/08/2020 | 15 | No Data | 13/08/2020 | 15 | No Data | 14/08/2020 | 15 | No Data | 15/08/2020 | 15 | No Data |
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| 11/08/2020 | 18 | No Data | 12/08/2020 | 18 | No Data | 13/08/2020 | 18 | No Data | 14/08/2020 | 18 | No Data | 15/08/2020 | 18 | No Data |
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| 11/08/2020 | 21 | No Data | 12/08/2020 | 21 | No Data | 13/08/2020 | 21 | No Data | 14/08/2020 | 21 | No Data | 15/08/2020 | 21 | No Data |
| 11/08/2020 | 22 | No Data | 12/08/2020 | 22 | No Data | 13/08/2020 | 22 | No Data | 14/08/2020 | 22 | No Data | 15/08/2020 | 22 | No Data |
| 11/08/2020 | 23 | No Data | 12/08/2020 | 23 | No Data | 13/08/2020 | 23 | No Data | 14/08/2020 | 23 | No Data | 15/08/2020 | 23 | No Data |
| Maximum | | No Data | | | No Data | | | 5* | | | 5* | | | No Data |

| Date | Hour | H ₂ S 1hr Average | Date | Hour | H ₂ S 1hr Average | Date | Hour | H ₂ S 1hr Average | Date | Hour | H ₂ S 1hr Average | Date | Hour | H ₂ S 1hr Average |
|----------------|------|------------------------------|------------|------|------------------------------|------------|------|------------------------------|------------|------|------------------------------|------------|------|------------------------------|
| 16/08/2020 | 0 | No Data | 17/08/2020 | 0 | No Data | 18/08/2020 | 0 | No Data | 19/08/2020 | 0 | No Data | 20/08/2020 | 0 | 5 |
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| 16/08/2020 | 5 | No Data | 17/08/2020 | 5 | 5 | 18/08/2020 | 5 | No Data | 19/08/2020 | 5 | No Data | 20/08/2020 | 5 | 5 |
| 16/08/2020 | 6 | No Data | 17/08/2020 | 6 | No Data | 18/08/2020 | 6 | No Data | 19/08/2020 | 6 | No Data | 20/08/2020 | 6 | 5 |
| 16/08/2020 | 7 | No Data | 17/08/2020 | 7 | No Data | 18/08/2020 | 7 | No Data | 19/08/2020 | 7 | No Data | 20/08/2020 | 7 | No Data |
| 16/08/2020 | 8 | No Data | 17/08/2020 | 8 | No Data | 18/08/2020 | 8 | No Data | 19/08/2020 | 8 | No Data | 20/08/2020 | 8 | No Data |
| 16/08/2020 | 9 | No Data | 17/08/2020 | 9 | No Data | 18/08/2020 | 9 | No Data | 19/08/2020 | 9 | No Data | 20/08/2020 | 9 | No Data |
| 16/08/2020 | 10 | No Data | 17/08/2020 | 10 | No Data | 18/08/2020 | 10 | No Data | 19/08/2020 | 10 | No Data | 20/08/2020 | 10 | No Data |
| 16/08/2020 | 11 | No Data | 17/08/2020 | 11 | No Data | 18/08/2020 | 11 | No Data | 19/08/2020 | 11 | No Data | 20/08/2020 | 11 | No Data |
| 16/08/2020 | 12 | No Data | 17/08/2020 | 12 | No Data | 18/08/2020 | 12 | No Data | 19/08/2020 | 12 | 5 | 20/08/2020 | 12 | No Data |
| 16/08/2020 | 13 | No Data | 17/08/2020 | 13 | No Data | 18/08/2020 | 13 | No Data | 19/08/2020 | 13 | 5 | 20/08/2020 | 13 | No Data |
| 16/08/2020 | 14 | No Data | 17/08/2020 | 14 | No Data | 18/08/2020 | 14 | No Data | 19/08/2020 | 14 | 5 | 20/08/2020 | 14 | 5 |
| 16/08/2020 | 15 | No Data | 17/08/2020 | 15 | No Data | 18/08/2020 | 15 | No Data | 19/08/2020 | 15 | 5 | 20/08/2020 | 15 | 5 |
| 16/08/2020 | 16 | No Data | 17/08/2020 | 16 | No Data | 18/08/2020 | 16 | No Data | 19/08/2020 | 16 | 5 | 20/08/2020 | 16 | 5 |
| 16/08/2020 | 17 | No Data | 17/08/2020 | 17 | No Data | 18/08/2020 | 17 | No Data | 19/08/2020 | 17 | 5 | 20/08/2020 | 17 | 5 |
| 16/08/2020 | 18 | No Data | 17/08/2020 | 18 | No Data | 18/08/2020 | 18 | No Data | 19/08/2020 | 18 | 5 | 20/08/2020 | 18 | 5 |
| 16/08/2020 | 19 | No Data | 17/08/2020 | 19 | No Data | 18/08/2020 | 19 | No Data | 19/08/2020 | 19 | 5 | 20/08/2020 | 19 | 5 |
| 16/08/2020 | 20 | No Data | 17/08/2020 | 20 | No Data | 18/08/2020 | 20 | No Data | 19/08/2020 | 20 | 5 | 20/08/2020 | 20 | 5 |
| 16/08/2020 | 21 | No Data | 17/08/2020 | 21 | No Data | 18/08/2020 | 21 | No Data | 19/08/2020 | 21 | 5 | 20/08/2020 | 21 | 5 |
| 16/08/2020 | 22 | No Data | 17/08/2020 | 22 | No Data | 18/08/2020 | 22 | No Data | 19/08/2020 | 22 | 5 | 20/08/2020 | 22 | 5 |
| 16/08/2020 | 23 | No Data | 17/08/2020 | 23 | No Data | 18/08/2020 | 23 | No Data | 19/08/2020 | 23 | 5 | 20/08/2020 | 23 | 5 |
| Maximum | | No Data | | | 5.2 | | | No Data | | | 5* | | | 5* |

| Date | Hour | H ₂ S 1hr Average | Date | Hour | H ₂ S 1hr Average | Date | Hour | H ₂ S 1hr Average | Date | Hour | H ₂ S 1hr Average | Date | Hour | H ₂ S 1hr Average |
|----------------|------|------------------------------|------------|------|------------------------------|------------|------|------------------------------|------------|------|------------------------------|------------|------|------------------------------|
| 21/08/2020 | 0 | No Data | 22/08/2020 | 0 | No Data | 23/08/2020 | 0 | No Data | 24/08/2020 | 0 | No Data | 25/08/2020 | 0 | 5 |
| 21/08/2020 | 1 | No Data | 22/08/2020 | 1 | No Data | 23/08/2020 | 1 | No Data | 24/08/2020 | 1 | No Data | 25/08/2020 | 1 | 5 |
| 21/08/2020 | 2 | No Data | 22/08/2020 | 2 | No Data | 23/08/2020 | 2 | No Data | 24/08/2020 | 2 | No Data | 25/08/2020 | 2 | 5 |
| 21/08/2020 | 3 | No Data | 22/08/2020 | 3 | No Data | 23/08/2020 | 3 | No Data | 24/08/2020 | 3 | No Data | 25/08/2020 | 3 | 5 |
| 21/08/2020 | 4 | No Data | 22/08/2020 | 4 | No Data | 23/08/2020 | 4 | No Data | 24/08/2020 | 4 | No Data | 25/08/2020 | 4 | 5 |
| 21/08/2020 | 5 | No Data | 22/08/2020 | 5 | No Data | 23/08/2020 | 5 | No Data | 24/08/2020 | 5 | No Data | 25/08/2020 | 5 | 5 |
| 21/08/2020 | 6 | No Data | 22/08/2020 | 6 | No Data | 23/08/2020 | 6 | No Data | 24/08/2020 | 6 | No Data | 25/08/2020 | 6 | 5 |
| 21/08/2020 | 7 | No Data | 22/08/2020 | 7 | No Data | 23/08/2020 | 7 | No Data | 24/08/2020 | 7 | No Data | 25/08/2020 | 7 | 5 |
| 21/08/2020 | 8 | No Data | 22/08/2020 | 8 | No Data | 23/08/2020 | 8 | No Data | 24/08/2020 | 8 | No Data | 25/08/2020 | 8 | 5 |
| 21/08/2020 | 9 | No Data | 22/08/2020 | 9 | No Data | 23/08/2020 | 9 | No Data | 24/08/2020 | 9 | No Data | 25/08/2020 | 9 | 5 |
| 21/08/2020 | 10 | No Data | 22/08/2020 | 10 | No Data | 23/08/2020 | 10 | No Data | 24/08/2020 | 10 | No Data | 25/08/2020 | 10 | 5 |
| 21/08/2020 | 11 | No Data | 22/08/2020 | 11 | No Data | 23/08/2020 | 11 | No Data | 24/08/2020 | 11 | No Data | 25/08/2020 | 11 | 5 |
| 21/08/2020 | 12 | No Data | 22/08/2020 | 12 | No Data | 23/08/2020 | 12 | No Data | 24/08/2020 | 12 | No Data | 25/08/2020 | 12 | 5 |
| 21/08/2020 | 13 | No Data | 22/08/2020 | 13 | No Data | 23/08/2020 | 13 | No Data | 24/08/2020 | 13 | No Data | 25/08/2020 | 13 | 5 |
| 21/08/2020 | 14 | No Data | 22/08/2020 | 14 | No Data | 23/08/2020 | 14 | No Data | 24/08/2020 | 14 | 5 | 25/08/2020 | 14 | 5 |
| 21/08/2020 | 15 | No Data | 22/08/2020 | 15 | No Data | 23/08/2020 | 15 | No Data | 24/08/2020 | 15 | 5 | 25/08/2020 | 15 | 5 |
| 21/08/2020 | 16 | No Data | 22/08/2020 | 16 | No Data | 23/08/2020 | 16 | No Data | 24/08/2020 | 16 | 5 | 25/08/2020 | 16 | 5 |
| 21/08/2020 | 17 | No Data | 22/08/2020 | 17 | No Data | 23/08/2020 | 17 | No Data | 24/08/2020 | 17 | 5 | 25/08/2020 | 17 | 5 |
| 21/08/2020 | 18 | No Data | 22/08/2020 | 18 | No Data | 23/08/2020 | 18 | No Data | 24/08/2020 | 18 | 5 | 25/08/2020 | 18 | 5 |
| 21/08/2020 | 19 | No Data | 22/08/2020 | 19 | No Data | 23/08/2020 | 19 | No Data | 24/08/2020 | 19 | 5 | 25/08/2020 | 19 | 5 |
| 21/08/2020 | 20 | No Data | 22/08/2020 | 20 | No Data | 23/08/2020 | 20 | No Data | 24/08/2020 | 20 | 5 | 25/08/2020 | 20 | 5 |
| 21/08/2020 | 21 | No Data | 22/08/2020 | 21 | No Data | 23/08/2020 | 21 | No Data | 24/08/2020 | 21 | 5 | 25/08/2020 | 21 | 5 |
| 21/08/2020 | 22 | No Data | 22/08/2020 | 22 | No Data | 23/08/2020 | 22 | No Data | 24/08/2020 | 22 | 5 | 25/08/2020 | 22 | 5 |
| 21/08/2020 | 23 | No Data | 22/08/2020 | 23 | No Data | 23/08/2020 | 23 | No Data | 24/08/2020 | 23 | 5 | 25/08/2020 | 23 | No Data |
| Maximum | | No Data | | | No Data | | | No Data | | | 5* | | | 5* |

| Date | Hour | H ₂ S 1hr Average | Date | Hour | H ₂ S 1hr Average | Date | Hour | H ₂ S 1hr Average | Date | Hour | H ₂ S 1hr Average | Date | Hour | H ₂ S 1hr Average |
|----------------|------|------------------------------|------------|------|------------------------------|------------|------|------------------------------|------------|------|------------------------------|------------|------|------------------------------|
| 26/08/2020 | 0 | No Data | 27/08/2020 | 0 | No Data | 28/08/2020 | 0 | No Data | 29/08/2020 | 0 | 5 | 30/08/2020 | 0 | 5 |
| 26/08/2020 | 1 | No Data | 27/08/2020 | 1 | No Data | 28/08/2020 | 1 | No Data | 29/08/2020 | 1 | No Data | 30/08/2020 | 1 | No Data |
| 26/08/2020 | 2 | No Data | 27/08/2020 | 2 | No Data | 28/08/2020 | 2 | No Data | 29/08/2020 | 2 | No Data | 30/08/2020 | 2 | No Data |
| 26/08/2020 | 3 | No Data | 27/08/2020 | 3 | No Data | 28/08/2020 | 3 | No Data | 29/08/2020 | 3 | No Data | 30/08/2020 | 3 | No Data |
| 26/08/2020 | 4 | No Data | 27/08/2020 | 4 | No Data | 28/08/2020 | 4 | No Data | 29/08/2020 | 4 | No Data | 30/08/2020 | 4 | No Data |
| 26/08/2020 | 5 | No Data | 27/08/2020 | 5 | No Data | 28/08/2020 | 5 | No Data | 29/08/2020 | 5 | No Data | 30/08/2020 | 5 | No Data |
| 26/08/2020 | 6 | No Data | 27/08/2020 | 6 | No Data | 28/08/2020 | 6 | No Data | 29/08/2020 | 6 | No Data | 30/08/2020 | 6 | No Data |
| 26/08/2020 | 7 | No Data | 27/08/2020 | 7 | No Data | 28/08/2020 | 7 | No Data | 29/08/2020 | 7 | No Data | 30/08/2020 | 7 | No Data |
| 26/08/2020 | 8 | No Data | 27/08/2020 | 8 | No Data | 28/08/2020 | 8 | No Data | 29/08/2020 | 8 | 5 | 30/08/2020 | 8 | 5 |
| 26/08/2020 | 9 | No Data | 27/08/2020 | 9 | No Data | 28/08/2020 | 9 | No Data | 29/08/2020 | 9 | 5 | 30/08/2020 | 9 | 5 |
| 26/08/2020 | 10 | No Data | 27/08/2020 | 10 | No Data | 28/08/2020 | 10 | No Data | 29/08/2020 | 10 | 5 | 30/08/2020 | 10 | 5 |
| 26/08/2020 | 11 | No Data | 27/08/2020 | 11 | No Data | 28/08/2020 | 11 | No Data | 29/08/2020 | 11 | 5 | 30/08/2020 | 11 | 5 |
| 26/08/2020 | 12 | No Data | 27/08/2020 | 12 | No Data | 28/08/2020 | 12 | No Data | 29/08/2020 | 12 | 5 | 30/08/2020 | 12 | 5 |
| 26/08/2020 | 13 | No Data | 27/08/2020 | 13 | No Data | 28/08/2020 | 13 | No Data | 29/08/2020 | 13 | 5 | 30/08/2020 | 13 | 5 |
| 26/08/2020 | 14 | No Data | 27/08/2020 | 14 | No Data | 28/08/2020 | 14 | No Data | 29/08/2020 | 14 | 5 | 30/08/2020 | 14 | 5 |
| 26/08/2020 | 15 | No Data | 27/08/2020 | 15 | No Data | 28/08/2020 | 15 | No Data | 29/08/2020 | 15 | 5 | 30/08/2020 | 15 | 5 |
| 26/08/2020 | 16 | No Data | 27/08/2020 | 16 | No Data | 28/08/2020 | 16 | 5 | 29/08/2020 | 16 | 5 | 30/08/2020 | 16 | 5 |
| 26/08/2020 | 17 | No Data | 27/08/2020 | 17 | No Data | 28/08/2020 | 17 | 5 | 29/08/2020 | 17 | 5 | 30/08/2020 | 17 | 5 |
| 26/08/2020 | 18 | No Data | 27/08/2020 | 18 | No Data | 28/08/2020 | 18 | 5 | 29/08/2020 | 18 | 5 | 30/08/2020 | 18 | 5 |
| 26/08/2020 | 19 | No Data | 27/08/2020 | 19 | No Data | 28/08/2020 | 19 | 5 | 29/08/2020 | 19 | 5 | 30/08/2020 | 19 | 5 |
| 26/08/2020 | 20 | No Data | 27/08/2020 | 20 | No Data | 28/08/2020 | 20 | 5 | 29/08/2020 | 20 | 5 | 30/08/2020 | 20 | 5 |
| 26/08/2020 | 21 | No Data | 27/08/2020 | 21 | No Data | 28/08/2020 | 21 | 5 | 29/08/2020 | 21 | 5 | 30/08/2020 | 21 | 5 |
| 26/08/2020 | 22 | No Data | 27/08/2020 | 22 | No Data | 28/08/2020 | 22 | 5 | 29/08/2020 | 22 | 5 | 30/08/2020 | 22 | 5 |
| 26/08/2020 | 23 | No Data | 27/08/2020 | 23 | No Data | 28/08/2020 | 23 | 5 | 29/08/2020 | 23 | 5 | 30/08/2020 | 23 | 5 |
| Maximum | | No Data | | | No Data | | | 5* | | | 5* | | | 5* |

| Date | Hour | H ₂ S 1hr Average | Date | Hour | H ₂ S 1hr Average | Date | Hour | H ₂ S 1hr Average | Date | Hour | H ₂ S 1hr Average | Date | Hour | H ₂ S 1hr Average |
|----------------|------|------------------------------|------|------|------------------------------|------|------|------------------------------|------|------|------------------------------|------|------|------------------------------|
| 31/08/2020 | 0 | 5 | | | | | | | | | | | | |
| 31/08/2020 | 1 | No Data | | | | | | | | | | | | |
| 31/08/2020 | 2 | No Data | | | | | | | | | | | | |
| 31/08/2020 | 3 | No Data | | | | | | | | | | | | |
| 31/08/2020 | 4 | No Data | | | | | | | | | | | | |
| 31/08/2020 | 5 | No Data | | | | | | | | | | | | |
| 31/08/2020 | 6 | No Data | | | | | | | | | | | | |
| 31/08/2020 | 7 | 5 | | | | | | | | | | | | |
| 31/08/2020 | 8 | 5 | | | | | | | | | | | | |
| 31/08/2020 | 9 | 5 | | | | | | | | | | | | |
| 31/08/2020 | 10 | 5 | | | | | | | | | | | | |
| 31/08/2020 | 11 | 5 | | | | | | | | | | | | |
| 31/08/2020 | 12 | 5 | | | | | | | | | | | | |
| 31/08/2020 | 13 | 5 | | | | | | | | | | | | |
| 31/08/2020 | 14 | 5 | | | | | | | | | | | | |
| 31/08/2020 | 15 | 5 | | | | | | | | | | | | |
| 31/08/2020 | 16 | 5 | | | | | | | | | | | | |
| 31/08/2020 | 17 | 5 | | | | | | | | | | | | |
| 31/08/2020 | 18 | 5 | | | | | | | | | | | | |
| 31/08/2020 | 19 | 5 | | | | | | | | | | | | |
| 31/08/2020 | 20 | 5 | | | | | | | | | | | | |
| 31/08/2020 | 21 | 5 | | | | | | | | | | | | |
| 31/08/2020 | 22 | 5 | | | | | | | | | | | | |
| 31/08/2020 | 23 | 5 | | | | | | | | | | | | |
| Maximum | | 5* | | | | | | | | | | | | |

Table 6 SO₂ 1hr Data (ppb) – August 2020

| Date | Hour | SO ₂ 1hr Average | Date | Hour | SO ₂ 1hr Average | Date | Hour | SO ₂ 1hr Average | Date | Hour | SO ₂ 1hr Average | Date | Hour | SO ₂ 1hr Average |
|----------------|------|-----------------------------|-----------|------|-----------------------------|-----------|------|-----------------------------|-----------|------|-----------------------------|-----------|------|-----------------------------|
| 1/08/2020 | 0 | No Data | 2/08/2020 | 0 | No Data | 3/08/2020 | 0 | No Data | 4/08/2020 | 0 | No Data | 5/08/2020 | 0 | No Data |
| 1/08/2020 | 1 | No Data | 2/08/2020 | 1 | No Data | 3/08/2020 | 1 | No Data | 4/08/2020 | 1 | No Data | 5/08/2020 | 1 | No Data |
| 1/08/2020 | 2 | No Data | 2/08/2020 | 2 | No Data | 3/08/2020 | 2 | No Data | 4/08/2020 | 2 | No Data | 5/08/2020 | 2 | No Data |
| 1/08/2020 | 3 | No Data | 2/08/2020 | 3 | No Data | 3/08/2020 | 3 | No Data | 4/08/2020 | 3 | No Data | 5/08/2020 | 3 | No Data |
| 1/08/2020 | 4 | No Data | 2/08/2020 | 4 | No Data | 3/08/2020 | 4 | No Data | 4/08/2020 | 4 | No Data | 5/08/2020 | 4 | No Data |
| 1/08/2020 | 5 | No Data | 2/08/2020 | 5 | No Data | 3/08/2020 | 5 | No Data | 4/08/2020 | 5 | No Data | 5/08/2020 | 5 | No Data |
| 1/08/2020 | 6 | No Data | 2/08/2020 | 6 | No Data | 3/08/2020 | 6 | No Data | 4/08/2020 | 6 | No Data | 5/08/2020 | 6 | No Data |
| 1/08/2020 | 7 | No Data | 2/08/2020 | 7 | No Data | 3/08/2020 | 7 | No Data | 4/08/2020 | 7 | No Data | 5/08/2020 | 7 | No Data |
| 1/08/2020 | 8 | No Data | 2/08/2020 | 8 | No Data | 3/08/2020 | 8 | No Data | 4/08/2020 | 8 | No Data | 5/08/2020 | 8 | No Data |
| 1/08/2020 | 9 | No Data | 2/08/2020 | 9 | No Data | 3/08/2020 | 9 | No Data | 4/08/2020 | 9 | No Data | 5/08/2020 | 9 | No Data |
| 1/08/2020 | 10 | No Data | 2/08/2020 | 10 | No Data | 3/08/2020 | 10 | No Data | 4/08/2020 | 10 | No Data | 5/08/2020 | 10 | No Data |
| 1/08/2020 | 11 | No Data | 2/08/2020 | 11 | No Data | 3/08/2020 | 11 | No Data | 4/08/2020 | 11 | No Data | 5/08/2020 | 11 | No Data |
| 1/08/2020 | 12 | No Data | 2/08/2020 | 12 | No Data | 3/08/2020 | 12 | No Data | 4/08/2020 | 12 | No Data | 5/08/2020 | 12 | No Data |
| 1/08/2020 | 13 | No Data | 2/08/2020 | 13 | No Data | 3/08/2020 | 13 | No Data | 4/08/2020 | 13 | No Data | 5/08/2020 | 13 | No Data |
| 1/08/2020 | 14 | No Data | 2/08/2020 | 14 | No Data | 3/08/2020 | 14 | No Data | 4/08/2020 | 14 | No Data | 5/08/2020 | 14 | No Data |
| 1/08/2020 | 15 | No Data | 2/08/2020 | 15 | No Data | 3/08/2020 | 15 | No Data | 4/08/2020 | 15 | No Data | 5/08/2020 | 15 | No Data |
| 1/08/2020 | 16 | No Data | 2/08/2020 | 16 | No Data | 3/08/2020 | 16 | No Data | 4/08/2020 | 16 | No Data | 5/08/2020 | 16 | No Data |
| 1/08/2020 | 17 | No Data | 2/08/2020 | 17 | No Data | 3/08/2020 | 17 | No Data | 4/08/2020 | 17 | No Data | 5/08/2020 | 17 | No Data |
| 1/08/2020 | 18 | No Data | 2/08/2020 | 18 | No Data | 3/08/2020 | 18 | No Data | 4/08/2020 | 18 | No Data | 5/08/2020 | 18 | No Data |
| 1/08/2020 | 19 | No Data | 2/08/2020 | 19 | No Data | 3/08/2020 | 19 | No Data | 4/08/2020 | 19 | No Data | 5/08/2020 | 19 | No Data |
| 1/08/2020 | 20 | No Data | 2/08/2020 | 20 | No Data | 3/08/2020 | 20 | No Data | 4/08/2020 | 20 | No Data | 5/08/2020 | 20 | No Data |
| 1/08/2020 | 21 | No Data | 2/08/2020 | 21 | No Data | 3/08/2020 | 21 | No Data | 4/08/2020 | 21 | No Data | 5/08/2020 | 21 | No Data |
| 1/08/2020 | 22 | No Data | 2/08/2020 | 22 | No Data | 3/08/2020 | 22 | No Data | 4/08/2020 | 22 | No Data | 5/08/2020 | 22 | No Data |
| 1/08/2020 | 23 | No Data | 2/08/2020 | 23 | No Data | 3/08/2020 | 23 | No Data | 4/08/2020 | 23 | No Data | 5/08/2020 | 23 | No Data |
| Maximum | | No Data | | | No Data | | | No Data | | | No Data | | | No Data |

| Date | Hour | SO ₂ 1hr Average | Date | Hour | SO ₂ 1hr Average | Date | Hour | SO ₂ 1hr Average | Date | Hour | SO ₂ 1hr Average | Date | Hour | SO ₂ 1hr Average |
|----------------|------|-----------------------------|-----------|------|-----------------------------|-----------|------|-----------------------------|-----------|------|-----------------------------|------------|------|-----------------------------|
| 6/08/2020 | 0 | No Data | 7/08/2020 | 0 | No Data | 8/08/2020 | 0 | No Data | 9/08/2020 | 0 | No Data | 10/08/2020 | 0 | No Data |
| 6/08/2020 | 1 | No Data | 7/08/2020 | 1 | No Data | 8/08/2020 | 1 | No Data | 9/08/2020 | 1 | No Data | 10/08/2020 | 1 | No Data |
| 6/08/2020 | 2 | No Data | 7/08/2020 | 2 | No Data | 8/08/2020 | 2 | No Data | 9/08/2020 | 2 | No Data | 10/08/2020 | 2 | No Data |
| 6/08/2020 | 3 | No Data | 7/08/2020 | 3 | No Data | 8/08/2020 | 3 | No Data | 9/08/2020 | 3 | No Data | 10/08/2020 | 3 | No Data |
| 6/08/2020 | 4 | No Data | 7/08/2020 | 4 | No Data | 8/08/2020 | 4 | No Data | 9/08/2020 | 4 | No Data | 10/08/2020 | 4 | No Data |
| 6/08/2020 | 5 | No Data | 7/08/2020 | 5 | No Data | 8/08/2020 | 5 | No Data | 9/08/2020 | 5 | No Data | 10/08/2020 | 5 | No Data |
| 6/08/2020 | 6 | No Data | 7/08/2020 | 6 | No Data | 8/08/2020 | 6 | No Data | 9/08/2020 | 6 | No Data | 10/08/2020 | 6 | No Data |
| 6/08/2020 | 7 | No Data | 7/08/2020 | 7 | No Data | 8/08/2020 | 7 | No Data | 9/08/2020 | 7 | No Data | 10/08/2020 | 7 | No Data |
| 6/08/2020 | 8 | No Data | 7/08/2020 | 8 | No Data | 8/08/2020 | 8 | No Data | 9/08/2020 | 8 | No Data | 10/08/2020 | 8 | No Data |
| 6/08/2020 | 9 | No Data | 7/08/2020 | 9 | No Data | 8/08/2020 | 9 | No Data | 9/08/2020 | 9 | No Data | 10/08/2020 | 9 | No Data |
| 6/08/2020 | 10 | No Data | 7/08/2020 | 10 | No Data | 8/08/2020 | 10 | No Data | 9/08/2020 | 10 | No Data | 10/08/2020 | 10 | No Data |
| 6/08/2020 | 11 | No Data | 7/08/2020 | 11 | No Data | 8/08/2020 | 11 | No Data | 9/08/2020 | 11 | No Data | 10/08/2020 | 11 | No Data |
| 6/08/2020 | 12 | No Data | 7/08/2020 | 12 | No Data | 8/08/2020 | 12 | No Data | 9/08/2020 | 12 | No Data | 10/08/2020 | 12 | No Data |
| 6/08/2020 | 13 | No Data | 7/08/2020 | 13 | No Data | 8/08/2020 | 13 | No Data | 9/08/2020 | 13 | No Data | 10/08/2020 | 13 | No Data |
| 6/08/2020 | 14 | No Data | 7/08/2020 | 14 | No Data | 8/08/2020 | 14 | No Data | 9/08/2020 | 14 | No Data | 10/08/2020 | 14 | No Data |
| 6/08/2020 | 15 | No Data | 7/08/2020 | 15 | No Data | 8/08/2020 | 15 | No Data | 9/08/2020 | 15 | No Data | 10/08/2020 | 15 | No Data |
| 6/08/2020 | 16 | No Data | 7/08/2020 | 16 | No Data | 8/08/2020 | 16 | No Data | 9/08/2020 | 16 | No Data | 10/08/2020 | 16 | No Data |
| 6/08/2020 | 17 | No Data | 7/08/2020 | 17 | No Data | 8/08/2020 | 17 | No Data | 9/08/2020 | 17 | No Data | 10/08/2020 | 17 | No Data |
| 6/08/2020 | 18 | No Data | 7/08/2020 | 18 | No Data | 8/08/2020 | 18 | No Data | 9/08/2020 | 18 | No Data | 10/08/2020 | 18 | No Data |
| 6/08/2020 | 19 | No Data | 7/08/2020 | 19 | No Data | 8/08/2020 | 19 | No Data | 9/08/2020 | 19 | No Data | 10/08/2020 | 19 | No Data |
| 6/08/2020 | 20 | No Data | 7/08/2020 | 20 | No Data | 8/08/2020 | 20 | No Data | 9/08/2020 | 20 | No Data | 10/08/2020 | 20 | No Data |
| 6/08/2020 | 21 | No Data | 7/08/2020 | 21 | No Data | 8/08/2020 | 21 | No Data | 9/08/2020 | 21 | No Data | 10/08/2020 | 21 | No Data |
| 6/08/2020 | 22 | No Data | 7/08/2020 | 22 | No Data | 8/08/2020 | 22 | No Data | 9/08/2020 | 22 | No Data | 10/08/2020 | 22 | No Data |
| 6/08/2020 | 23 | No Data | 7/08/2020 | 23 | No Data | 8/08/2020 | 23 | No Data | 9/08/2020 | 23 | No Data | 10/08/2020 | 23 | No Data |
| Maximum | | No Data | | | No Data | | | No Data | | | No Data | | | No Data |

| Date | Hour | SO ₂ 1hr Average | Date | Hour | SO ₂ 1hr Average | Date | Hour | SO ₂ 1hr Average | Date | Hour | SO ₂ 1hr Average | Date | Hour | SO ₂ 1hr Average |
|----------------|------|-----------------------------|------------|------|-----------------------------|------------|------|-----------------------------|------------|------|-----------------------------|------------|------|-----------------------------|
| 11/08/2020 | 0 | No Data | 12/08/2020 | 0 | No Data | 13/08/2020 | 0 | No Data | 14/08/2020 | 0 | No Data | 15/08/2020 | 0 | No Data |
| 11/08/2020 | 1 | No Data | 12/08/2020 | 1 | No Data | 13/08/2020 | 1 | No Data | 14/08/2020 | 1 | No Data | 15/08/2020 | 1 | No Data |
| 11/08/2020 | 2 | No Data | 12/08/2020 | 2 | No Data | 13/08/2020 | 2 | No Data | 14/08/2020 | 2 | No Data | 15/08/2020 | 2 | No Data |
| 11/08/2020 | 3 | No Data | 12/08/2020 | 3 | No Data | 13/08/2020 | 3 | No Data | 14/08/2020 | 3 | No Data | 15/08/2020 | 3 | No Data |
| 11/08/2020 | 4 | No Data | 12/08/2020 | 4 | No Data | 13/08/2020 | 4 | 5 | 14/08/2020 | 4 | 5 | 15/08/2020 | 4 | No Data |
| 11/08/2020 | 5 | No Data | 12/08/2020 | 5 | No Data | 13/08/2020 | 5 | 5 | 14/08/2020 | 5 | 5 | 15/08/2020 | 5 | No Data |
| 11/08/2020 | 6 | No Data | 12/08/2020 | 6 | No Data | 13/08/2020 | 6 | 5 | 14/08/2020 | 6 | 5 | 15/08/2020 | 6 | No Data |
| 11/08/2020 | 7 | No Data | 12/08/2020 | 7 | No Data | 13/08/2020 | 7 | 5 | 14/08/2020 | 7 | No Data | 15/08/2020 | 7 | No Data |
| 11/08/2020 | 8 | No Data | 12/08/2020 | 8 | No Data | 13/08/2020 | 8 | 5 | 14/08/2020 | 8 | No Data | 15/08/2020 | 8 | No Data |
| 11/08/2020 | 9 | No Data | 12/08/2020 | 9 | No Data | 13/08/2020 | 9 | 5 | 14/08/2020 | 9 | No Data | 15/08/2020 | 9 | No Data |
| 11/08/2020 | 10 | No Data | 12/08/2020 | 10 | No Data | 13/08/2020 | 10 | 5 | 14/08/2020 | 10 | No Data | 15/08/2020 | 10 | No Data |
| 11/08/2020 | 11 | No Data | 12/08/2020 | 11 | No Data | 13/08/2020 | 11 | 5 | 14/08/2020 | 11 | No Data | 15/08/2020 | 11 | No Data |
| 11/08/2020 | 12 | No Data | 12/08/2020 | 12 | No Data | 13/08/2020 | 12 | No Data | 14/08/2020 | 12 | No Data | 15/08/2020 | 12 | No Data |
| 11/08/2020 | 13 | No Data | 12/08/2020 | 13 | No Data | 13/08/2020 | 13 | No Data | 14/08/2020 | 13 | No Data | 15/08/2020 | 13 | No Data |
| 11/08/2020 | 14 | No Data | 12/08/2020 | 14 | No Data | 13/08/2020 | 14 | No Data | 14/08/2020 | 14 | No Data | 15/08/2020 | 14 | No Data |
| 11/08/2020 | 15 | No Data | 12/08/2020 | 15 | No Data | 13/08/2020 | 15 | No Data | 14/08/2020 | 15 | No Data | 15/08/2020 | 15 | No Data |
| 11/08/2020 | 16 | No Data | 12/08/2020 | 16 | No Data | 13/08/2020 | 16 | No Data | 14/08/2020 | 16 | No Data | 15/08/2020 | 16 | No Data |
| 11/08/2020 | 17 | No Data | 12/08/2020 | 17 | No Data | 13/08/2020 | 17 | No Data | 14/08/2020 | 17 | No Data | 15/08/2020 | 17 | No Data |
| 11/08/2020 | 18 | No Data | 12/08/2020 | 18 | No Data | 13/08/2020 | 18 | No Data | 14/08/2020 | 18 | No Data | 15/08/2020 | 18 | No Data |
| 11/08/2020 | 19 | No Data | 12/08/2020 | 19 | No Data | 13/08/2020 | 19 | No Data | 14/08/2020 | 19 | No Data | 15/08/2020 | 19 | No Data |
| 11/08/2020 | 20 | No Data | 12/08/2020 | 20 | No Data | 13/08/2020 | 20 | No Data | 14/08/2020 | 20 | No Data | 15/08/2020 | 20 | No Data |
| 11/08/2020 | 21 | No Data | 12/08/2020 | 21 | No Data | 13/08/2020 | 21 | No Data | 14/08/2020 | 21 | No Data | 15/08/2020 | 21 | No Data |
| 11/08/2020 | 22 | No Data | 12/08/2020 | 22 | No Data | 13/08/2020 | 22 | No Data | 14/08/2020 | 22 | No Data | 15/08/2020 | 22 | No Data |
| 11/08/2020 | 23 | No Data | 12/08/2020 | 23 | No Data | 13/08/2020 | 23 | No Data | 14/08/2020 | 23 | No Data | 15/08/2020 | 23 | No Data |
| Maximum | | No Data | | | No Data | | | 5* | | | 5* | | | No Data |

| Date | Hour | SO ₂ 1hr Average | Date | Hour | SO ₂ 1hr Average | Date | Hour | SO ₂ 1hr Average | Date | Hour | SO ₂ 1hr Average | Date | Hour | SO ₂ 1hr Average |
|----------------|------|-----------------------------|------------|------|-----------------------------|------------|------|-----------------------------|------------|------|-----------------------------|------------|------|-----------------------------|
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| 16/08/2020 | 1 | No Data | 17/08/2020 | 1 | No Data | 18/08/2020 | 1 | No Data | 19/08/2020 | 1 | No Data | 20/08/2020 | 1 | 5 |
| 16/08/2020 | 2 | No Data | 17/08/2020 | 2 | 5.8 | 18/08/2020 | 2 | No Data | 19/08/2020 | 2 | No Data | 20/08/2020 | 2 | 5 |
| 16/08/2020 | 3 | No Data | 17/08/2020 | 3 | 5 | 18/08/2020 | 3 | No Data | 19/08/2020 | 3 | No Data | 20/08/2020 | 3 | 5 |
| 16/08/2020 | 4 | No Data | 17/08/2020 | 4 | 5 | 18/08/2020 | 4 | No Data | 19/08/2020 | 4 | No Data | 20/08/2020 | 4 | 5 |
| 16/08/2020 | 5 | No Data | 17/08/2020 | 5 | 5 | 18/08/2020 | 5 | No Data | 19/08/2020 | 5 | No Data | 20/08/2020 | 5 | 5 |
| 16/08/2020 | 6 | No Data | 17/08/2020 | 6 | No Data | 18/08/2020 | 6 | No Data | 19/08/2020 | 6 | No Data | 20/08/2020 | 6 | 5 |
| 16/08/2020 | 7 | No Data | 17/08/2020 | 7 | No Data | 18/08/2020 | 7 | No Data | 19/08/2020 | 7 | No Data | 20/08/2020 | 7 | No Data |
| 16/08/2020 | 8 | No Data | 17/08/2020 | 8 | No Data | 18/08/2020 | 8 | No Data | 19/08/2020 | 8 | No Data | 20/08/2020 | 8 | No Data |
| 16/08/2020 | 9 | No Data | 17/08/2020 | 9 | No Data | 18/08/2020 | 9 | No Data | 19/08/2020 | 9 | No Data | 20/08/2020 | 9 | No Data |
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| 16/08/2020 | 12 | No Data | 17/08/2020 | 12 | No Data | 18/08/2020 | 12 | No Data | 19/08/2020 | 12 | 5 | 20/08/2020 | 12 | No Data |
| 16/08/2020 | 13 | No Data | 17/08/2020 | 13 | No Data | 18/08/2020 | 13 | No Data | 19/08/2020 | 13 | 5 | 20/08/2020 | 13 | No Data |
| 16/08/2020 | 14 | No Data | 17/08/2020 | 14 | No Data | 18/08/2020 | 14 | No Data | 19/08/2020 | 14 | 5 | 20/08/2020 | 14 | 5 |
| 16/08/2020 | 15 | No Data | 17/08/2020 | 15 | No Data | 18/08/2020 | 15 | No Data | 19/08/2020 | 15 | 5 | 20/08/2020 | 15 | 5 |
| 16/08/2020 | 16 | No Data | 17/08/2020 | 16 | No Data | 18/08/2020 | 16 | No Data | 19/08/2020 | 16 | 5 | 20/08/2020 | 16 | 5 |
| 16/08/2020 | 17 | No Data | 17/08/2020 | 17 | No Data | 18/08/2020 | 17 | No Data | 19/08/2020 | 17 | 5 | 20/08/2020 | 17 | 5 |
| 16/08/2020 | 18 | No Data | 17/08/2020 | 18 | No Data | 18/08/2020 | 18 | No Data | 19/08/2020 | 18 | 5 | 20/08/2020 | 18 | 5 |
| 16/08/2020 | 19 | No Data | 17/08/2020 | 19 | No Data | 18/08/2020 | 19 | No Data | 19/08/2020 | 19 | 5 | 20/08/2020 | 19 | 5 |
| 16/08/2020 | 20 | No Data | 17/08/2020 | 20 | No Data | 18/08/2020 | 20 | No Data | 19/08/2020 | 20 | 5 | 20/08/2020 | 20 | 5 |
| 16/08/2020 | 21 | No Data | 17/08/2020 | 21 | No Data | 18/08/2020 | 21 | No Data | 19/08/2020 | 21 | 5 | 20/08/2020 | 21 | 5 |
| 16/08/2020 | 22 | No Data | 17/08/2020 | 22 | No Data | 18/08/2020 | 22 | No Data | 19/08/2020 | 22 | 5 | 20/08/2020 | 22 | 5 |
| 16/08/2020 | 23 | No Data | 17/08/2020 | 23 | No Data | 18/08/2020 | 23 | No Data | 19/08/2020 | 23 | 5 | 20/08/2020 | 23 | 5 |
| Maximum | | No Data | | | 5.8 | | | No Data | | | 5* | | | 5* |

| Date | Hour | SO ₂ 1hr Average | Date | Hour | SO ₂ 1hr Average | Date | Hour | SO ₂ 1hr Average | Date | Hour | SO ₂ 1hr Average | Date | Hour | SO ₂ 1hr Average |
|----------------|------|-----------------------------|------------|------|-----------------------------|------------|------|-----------------------------|------------|------|-----------------------------|------------|------|-----------------------------|
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| 21/08/2020 | 2 | No Data | 22/08/2020 | 2 | No Data | 23/08/2020 | 2 | No Data | 24/08/2020 | 2 | No Data | 25/08/2020 | 2 | 5 |
| 21/08/2020 | 3 | No Data | 22/08/2020 | 3 | No Data | 23/08/2020 | 3 | No Data | 24/08/2020 | 3 | No Data | 25/08/2020 | 3 | 5 |
| 21/08/2020 | 4 | No Data | 22/08/2020 | 4 | No Data | 23/08/2020 | 4 | No Data | 24/08/2020 | 4 | No Data | 25/08/2020 | 4 | 5 |
| 21/08/2020 | 5 | No Data | 22/08/2020 | 5 | No Data | 23/08/2020 | 5 | No Data | 24/08/2020 | 5 | No Data | 25/08/2020 | 5 | 5 |
| 21/08/2020 | 6 | No Data | 22/08/2020 | 6 | No Data | 23/08/2020 | 6 | No Data | 24/08/2020 | 6 | No Data | 25/08/2020 | 6 | 5 |
| 21/08/2020 | 7 | No Data | 22/08/2020 | 7 | No Data | 23/08/2020 | 7 | No Data | 24/08/2020 | 7 | No Data | 25/08/2020 | 7 | 5 |
| 21/08/2020 | 8 | No Data | 22/08/2020 | 8 | No Data | 23/08/2020 | 8 | No Data | 24/08/2020 | 8 | No Data | 25/08/2020 | 8 | 5 |
| 21/08/2020 | 9 | No Data | 22/08/2020 | 9 | No Data | 23/08/2020 | 9 | No Data | 24/08/2020 | 9 | No Data | 25/08/2020 | 9 | 5 |
| 21/08/2020 | 10 | No Data | 22/08/2020 | 10 | No Data | 23/08/2020 | 10 | No Data | 24/08/2020 | 10 | No Data | 25/08/2020 | 10 | 5 |
| 21/08/2020 | 11 | No Data | 22/08/2020 | 11 | No Data | 23/08/2020 | 11 | No Data | 24/08/2020 | 11 | No Data | 25/08/2020 | 11 | 5 |
| 21/08/2020 | 12 | No Data | 22/08/2020 | 12 | No Data | 23/08/2020 | 12 | No Data | 24/08/2020 | 12 | No Data | 25/08/2020 | 12 | 5 |
| 21/08/2020 | 13 | No Data | 22/08/2020 | 13 | No Data | 23/08/2020 | 13 | No Data | 24/08/2020 | 13 | No Data | 25/08/2020 | 13 | 5 |
| 21/08/2020 | 14 | No Data | 22/08/2020 | 14 | No Data | 23/08/2020 | 14 | No Data | 24/08/2020 | 14 | 5 | 25/08/2020 | 14 | 5 |
| 21/08/2020 | 15 | No Data | 22/08/2020 | 15 | No Data | 23/08/2020 | 15 | No Data | 24/08/2020 | 15 | 5 | 25/08/2020 | 15 | 5 |
| 21/08/2020 | 16 | No Data | 22/08/2020 | 16 | No Data | 23/08/2020 | 16 | No Data | 24/08/2020 | 16 | 5 | 25/08/2020 | 16 | 5 |
| 21/08/2020 | 17 | No Data | 22/08/2020 | 17 | No Data | 23/08/2020 | 17 | No Data | 24/08/2020 | 17 | 5 | 25/08/2020 | 17 | 5 |
| 21/08/2020 | 18 | No Data | 22/08/2020 | 18 | No Data | 23/08/2020 | 18 | No Data | 24/08/2020 | 18 | 5 | 25/08/2020 | 18 | 5 |
| 21/08/2020 | 19 | No Data | 22/08/2020 | 19 | No Data | 23/08/2020 | 19 | No Data | 24/08/2020 | 19 | 5 | 25/08/2020 | 19 | 5 |
| 21/08/2020 | 20 | No Data | 22/08/2020 | 20 | No Data | 23/08/2020 | 20 | No Data | 24/08/2020 | 20 | 5 | 25/08/2020 | 20 | 5 |
| 21/08/2020 | 21 | No Data | 22/08/2020 | 21 | No Data | 23/08/2020 | 21 | No Data | 24/08/2020 | 21 | 5 | 25/08/2020 | 21 | 5 |
| 21/08/2020 | 22 | No Data | 22/08/2020 | 22 | No Data | 23/08/2020 | 22 | No Data | 24/08/2020 | 22 | 5 | 25/08/2020 | 22 | 5 |
| 21/08/2020 | 23 | No Data | 22/08/2020 | 23 | No Data | 23/08/2020 | 23 | No Data | 24/08/2020 | 23 | 5 | 25/08/2020 | 23 | No Data |
| Maximum | | No Data | | | No Data | | | No Data | | | 5* | | | 5* |

| Date | Hour | SO ₂ 1hr Average | Date | Hour | SO ₂ 1hr Average | Date | Hour | SO ₂ 1hr Average | Date | Hour | SO ₂ 1hr Average | Date | Hour | SO ₂ 1hr Average |
|----------------|------|-----------------------------|------------|------|-----------------------------|------------|------|-----------------------------|------------|------|-----------------------------|------------|------|-----------------------------|
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| 26/08/2020 | 4 | No Data | 27/08/2020 | 4 | No Data | 28/08/2020 | 4 | No Data | 29/08/2020 | 4 | No Data | 30/08/2020 | 4 | No Data |
| 26/08/2020 | 5 | No Data | 27/08/2020 | 5 | No Data | 28/08/2020 | 5 | No Data | 29/08/2020 | 5 | No Data | 30/08/2020 | 5 | No Data |
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| 26/08/2020 | 8 | No Data | 27/08/2020 | 8 | No Data | 28/08/2020 | 8 | No Data | 29/08/2020 | 8 | 5 | 30/08/2020 | 8 | 5 |
| 26/08/2020 | 9 | No Data | 27/08/2020 | 9 | No Data | 28/08/2020 | 9 | No Data | 29/08/2020 | 9 | 5 | 30/08/2020 | 9 | 5 |
| 26/08/2020 | 10 | No Data | 27/08/2020 | 10 | No Data | 28/08/2020 | 10 | No Data | 29/08/2020 | 10 | 5 | 30/08/2020 | 10 | 5 |
| 26/08/2020 | 11 | No Data | 27/08/2020 | 11 | No Data | 28/08/2020 | 11 | No Data | 29/08/2020 | 11 | 5 | 30/08/2020 | 11 | 5 |
| 26/08/2020 | 12 | No Data | 27/08/2020 | 12 | No Data | 28/08/2020 | 12 | No Data | 29/08/2020 | 12 | 5 | 30/08/2020 | 12 | 5 |
| 26/08/2020 | 13 | No Data | 27/08/2020 | 13 | No Data | 28/08/2020 | 13 | No Data | 29/08/2020 | 13 | 5 | 30/08/2020 | 13 | 5 |
| 26/08/2020 | 14 | No Data | 27/08/2020 | 14 | No Data | 28/08/2020 | 14 | No Data | 29/08/2020 | 14 | 5 | 30/08/2020 | 14 | 5 |
| 26/08/2020 | 15 | No Data | 27/08/2020 | 15 | No Data | 28/08/2020 | 15 | No Data | 29/08/2020 | 15 | 5 | 30/08/2020 | 15 | 5 |
| 26/08/2020 | 16 | No Data | 27/08/2020 | 16 | No Data | 28/08/2020 | 16 | 5 | 29/08/2020 | 16 | 64.2 | 30/08/2020 | 16 | 5 |
| 26/08/2020 | 17 | No Data | 27/08/2020 | 17 | No Data | 28/08/2020 | 17 | 22.9 | 29/08/2020 | 17 | 5 | 30/08/2020 | 17 | 5 |
| 26/08/2020 | 18 | No Data | 27/08/2020 | 18 | No Data | 28/08/2020 | 18 | 5 | 29/08/2020 | 18 | 5 | 30/08/2020 | 18 | 5 |
| 26/08/2020 | 19 | No Data | 27/08/2020 | 19 | No Data | 28/08/2020 | 19 | 5 | 29/08/2020 | 19 | 5 | 30/08/2020 | 19 | 5 |
| 26/08/2020 | 20 | No Data | 27/08/2020 | 20 | No Data | 28/08/2020 | 20 | 5 | 29/08/2020 | 20 | 5 | 30/08/2020 | 20 | 5 |
| 26/08/2020 | 21 | No Data | 27/08/2020 | 21 | No Data | 28/08/2020 | 21 | 5 | 29/08/2020 | 21 | 5 | 30/08/2020 | 21 | 5 |
| 26/08/2020 | 22 | No Data | 27/08/2020 | 22 | No Data | 28/08/2020 | 22 | 5 | 29/08/2020 | 22 | 5 | 30/08/2020 | 22 | 5 |
| 26/08/2020 | 23 | No Data | 27/08/2020 | 23 | No Data | 28/08/2020 | 23 | 5 | 29/08/2020 | 23 | 5 | 30/08/2020 | 23 | 5 |
| Maximum | | No Data | | | No Data | | | 22.9 | | | 64.2 | | | 5* |

| Date | Hour | SO ₂ 1hr Average | Date | Hour | SO ₂ 1hr Average | Date | Hour | SO ₂ 1hr Average | Date | Hour | SO ₂ 1hr Average | Date | Hour | SO ₂ 1hr Average |
|----------------|------|-----------------------------|------|------|-----------------------------|------|------|-----------------------------|------|------|-----------------------------|------|------|-----------------------------|
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| 31/08/2020 | 1 | No Data | | | | | | | | | | | | |
| 31/08/2020 | 2 | No Data | | | | | | | | | | | | |
| 31/08/2020 | 3 | No Data | | | | | | | | | | | | |
| 31/08/2020 | 4 | No Data | | | | | | | | | | | | |
| 31/08/2020 | 5 | No Data | | | | | | | | | | | | |
| 31/08/2020 | 6 | No Data | | | | | | | | | | | | |
| 31/08/2020 | 7 | 15.0 | | | | | | | | | | | | |
| 31/08/2020 | 8 | 5 | | | | | | | | | | | | |
| 31/08/2020 | 9 | 5 | | | | | | | | | | | | |
| 31/08/2020 | 10 | 5 | | | | | | | | | | | | |
| 31/08/2020 | 11 | 5 | | | | | | | | | | | | |
| 31/08/2020 | 12 | 5 | | | | | | | | | | | | |
| 31/08/2020 | 13 | 5 | | | | | | | | | | | | |
| 31/08/2020 | 14 | 5 | | | | | | | | | | | | |
| 31/08/2020 | 15 | 5 | | | | | | | | | | | | |
| 31/08/2020 | 16 | 5 | | | | | | | | | | | | |
| 31/08/2020 | 17 | 5 | | | | | | | | | | | | |
| 31/08/2020 | 18 | 5 | | | | | | | | | | | | |
| 31/08/2020 | 19 | 5 | | | | | | | | | | | | |
| 31/08/2020 | 20 | 5 | | | | | | | | | | | | |
| 31/08/2020 | 21 | 5 | | | | | | | | | | | | |
| 31/08/2020 | 22 | 5 | | | | | | | | | | | | |
| 31/08/2020 | 23 | 5 | | | | | | | | | | | | |
| Maximum | | 15.0 | | | | | | | | | | | | |

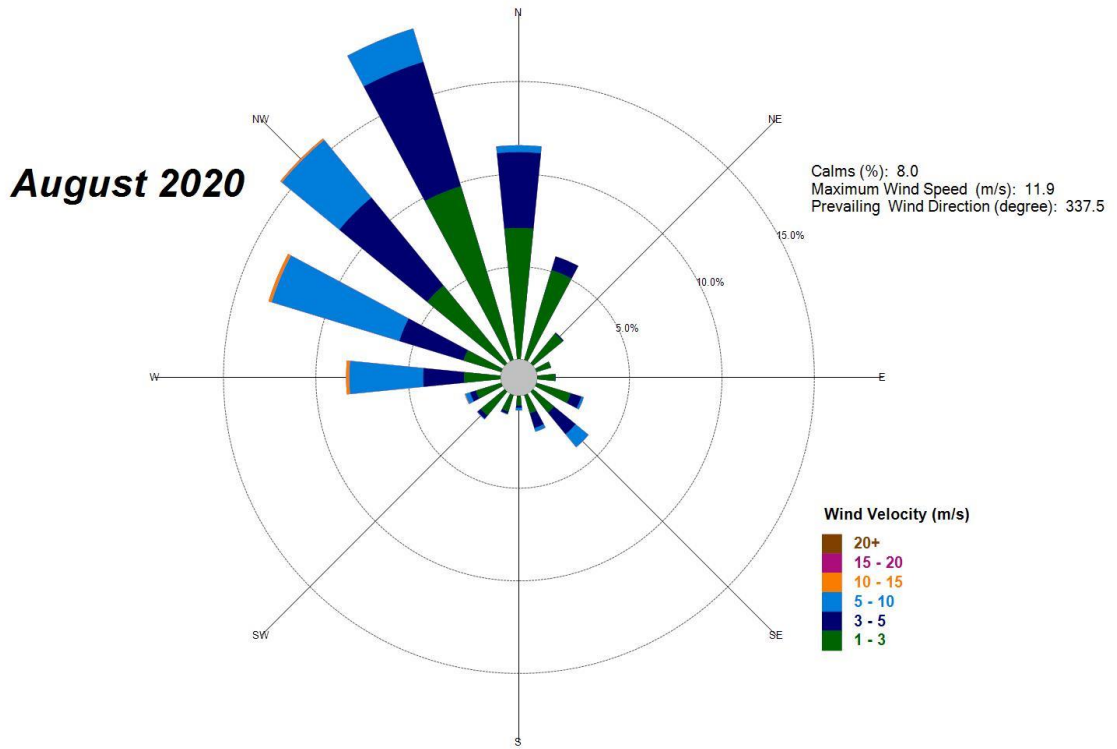


Figure 4 MCC August 2020 Meteorology Data