

22 September 2017

Julie Thomas
Environmental Superintendent
Muswellbrook Coal Company Ltd

Dear Julie,

Ambient Air Monitoring - Muscle Creek Rd - July & August 2017

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 TG-501 Toxic Gas 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 with live data 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 will be reported on a monthly basis with this report presenting results for the period 26 July to 31 August 2017.

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.

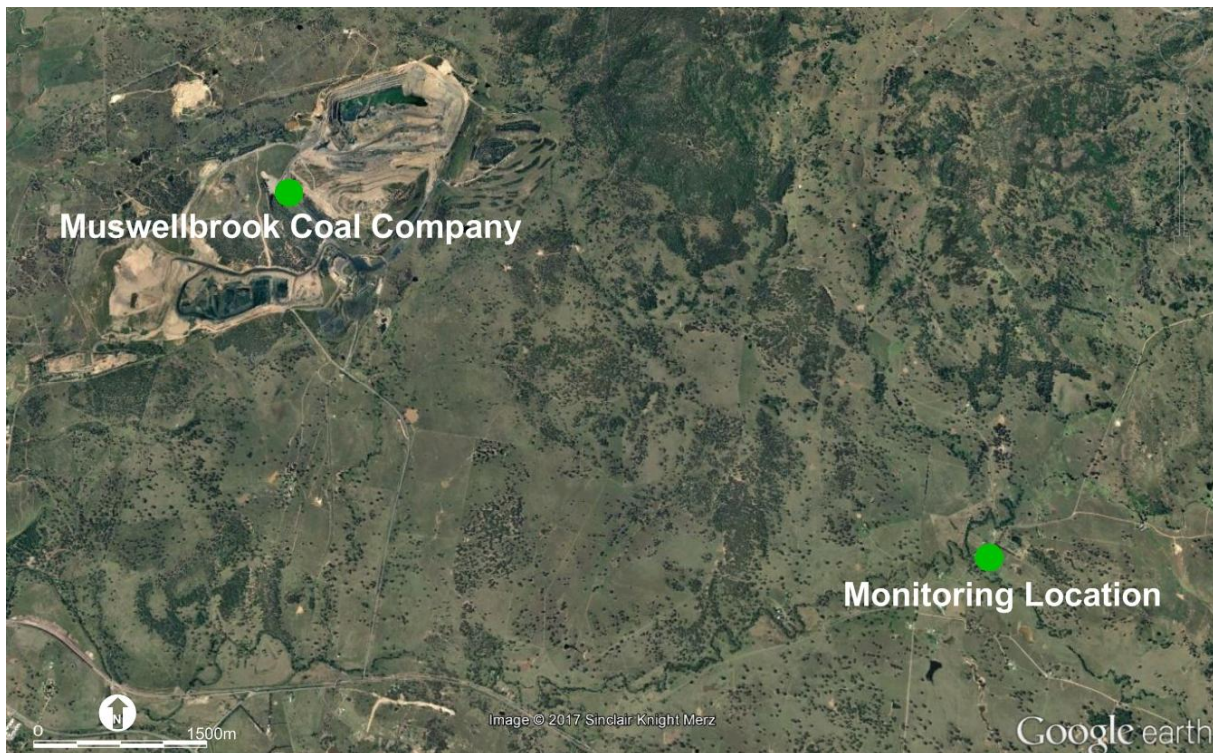


Figure 1: Muscle Creek Rd Monitoring Location

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 performed by a GrayWolf TG-501 Toxic Gas Probe fitted with H₂S and SO₂ sensors. The unit is enclosed in a weatherproof case with the sensor at a height of approximately 1.8m above the ground. While the sensor is designed as a passive sampler, a small fan has been installed to generate airflow past the sensor ensuring adequate air movement to provide a representative atmosphere for gas analysis.

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

- H₂S: 0.01 ppm
- SO₂: 0.1 ppm

Readings are then converted to parts per billion (ppb) for reporting purposes with the LOD's being 10ppb for H₂S and 100 ppb for SO₂. For the calculation of 1hr and 24hr averages, where the instrument returns a zero reading, half the instrument LOD value is used. These are 5 ppb for H₂S and 50 ppb for SO₂.

5.0 Results

A summary of the H₂S and SO₂ results for the period 26 July 2017 to 31 August 2017 are 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**.

Table 3 Gaseous Monitoring results – July & August 2017

Parameter	Units	Hydrogen Sulfide (H ₂ S)	Sulfur Dioxide (SO ₂)
Maximum 1 Hour Average	ppb	75.8	50*
Maximum 24 Hour Average	ppb	22.6	50*
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 period 26 July to 31 August 2017.

Table 4: 24hr Averages (Midnight to Midnight) and Maximum 1hr Averages – July & August 2017

Date	Hydrogen Sulfide (H ₂ S) (ppb)		Sulfur Dioxide (SO ₂) (ppb)	
	24hr Average	Maximum 1hr Average	24hr Average	Maximum 1hr Average
26/07/2017	6.4	16.7	50*	50*
27/07/2017	17.5	42.5	50*	50*
28/07/2017	18.2	47.5	50*	50*
29/07/2017	22.6	75.8	50*	50*
30/07/2017	7.2	16.7	50*	50*
31/07/2017	5.4	8.3	50*	50*
1/08/2017	13.2	30.8	50*	50*
2/08/2017	5*	5*	50*	50*
3/08/2017	5.3	8.3	50*	50*
4/08/2017	5.0	5.4	50*	50*
5/08/2017	5*	5*	50*	50*
6/08/2017	5*	5*	50*	50*
7/08/2017	5*	5*	50*	50*
8/08/2017	5.6	15.4	50*	50*
9/08/2017	5.1	7.1	50*	50*
10/08/2017	5.7	10.0	50*	50*
11/08/2017	5*	5*	50*	50*
12/08/2017	5.1	7.9	50*	50*
13/08/2017	5.1	5.8	50*	50*
14/08/2017	5.9	12.9	50*	50*
15/08/2017	5*	5*	50*	50*
16/08/2017	5*	5*	50*	50*
17/08/2017	5.2	7.5	50*	50*
18/08/2017	5.0	5.4	50*	50*
19/08/2017	5.0	5.8	50*	50*
20/08/2017	5.6	11.7	50*	50*
21/08/2017	5.0	5.4	50*	50*
22/08/2017	5.1	5.8	50*	50*
23/08/2017	5.5	15.8	50*	50*
24/08/2017	5.2	8.8	50*	50*
25/08/2017	5.1	6.3	50*	50*
26/08/2017	6.3	27.1	50*	50*
27/08/2017	5.0	5.4	50*	50*
28/08/2017	5.2	7.1	50*	50*
29/08/2017	6.2	22.5	50*	50*
30/08/2017	5.1	5.8	50*	50*
31/08/2017	5.2	8.3	50*	50*
Criteria	100	500	80	200
Capture Rate	98%		98%	

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

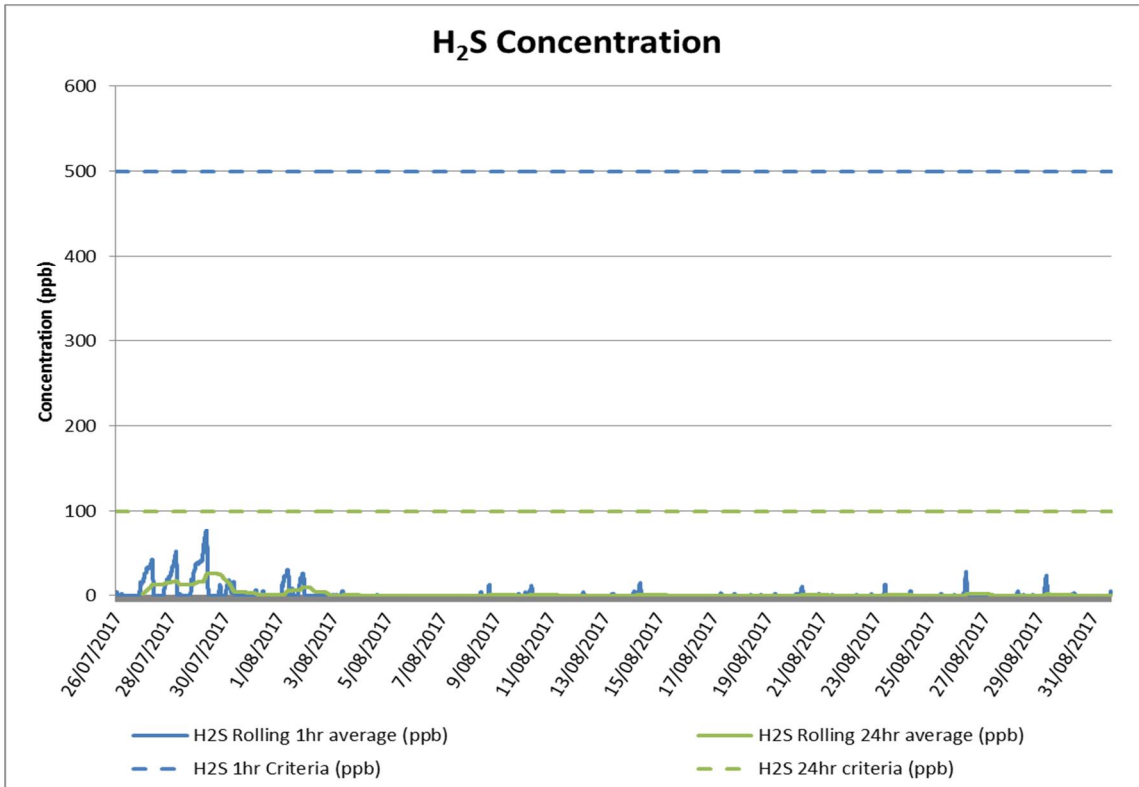


Figure 2 H₂S Concentrations – July & August 2017

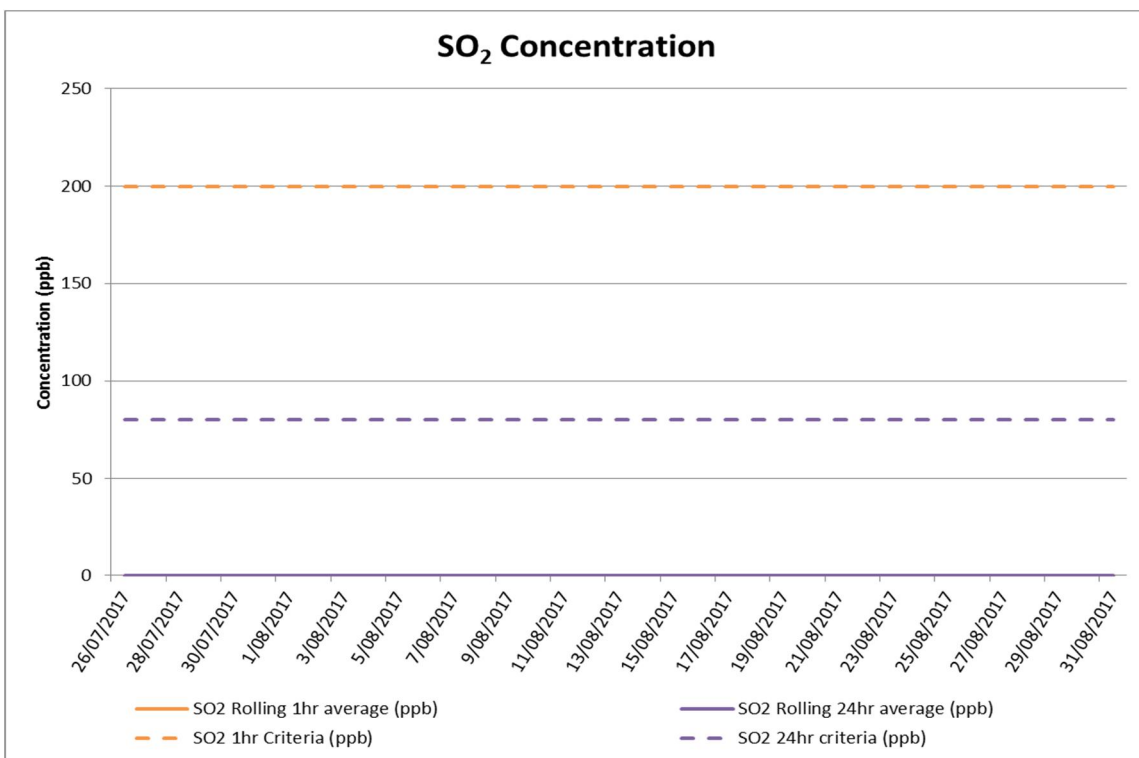


Figure 3 SO₂ Concentrations – July & August 2017

5.1 Meteorology

Meteorology data including wind speed and direction has been sourced from MCC's onsite meteorology station, approximately 6km to the northwest of the Muscle Creek Rd monitoring site. Wind data for the July and August sampling period indicates winds were predominately from the North West quadrant and typically of medium strength (3.6 m/s to 8.8m/s). This places the monitoring location generally down wind of the mine site for the July/August monitoring period. A wind rose for this monitoring period can be found attached.

Once further data has been collected it may be possible to make some analysis in regard to a relationship between wind speed & direction and the monitoring results, but at this time there is insufficient data.

6.0 Conclusion

AECOM commenced ambient air quality monitoring on Muscle Creek Rd on 26 July 2017. Monitoring results for the period 26 July to 31 August 2017 returned no exceedances of either the 1hr or 24hr criteria for H₂S or SO₂. Wind data obtained from the MCC on-site meteorology station indicates that winds for this period were predominantly from the North West quadrant placing the monitoring location generally downwind of the mine site.

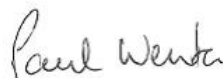
Yours faithfully,



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encl: Hourly Monitoring Data, Wind Rose



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Table 5: H₂S 1hr Data (ppb) – July & August 2017

Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average
26/07/2017	0	7.5	27/07/2017	0	20.8	28/07/2017	0	26.7	29/07/2017	0	36.7	30/07/2017	0	5
26/07/2017	1	5	27/07/2017	1	25.8	28/07/2017	1	32.5	29/07/2017	1	40.0	30/07/2017	1	8.8
26/07/2017	2	5	27/07/2017	2	27.5	28/07/2017	2	35.0	29/07/2017	2	39.2	30/07/2017	2	13.3
26/07/2017	3	5	27/07/2017	3	32.5	28/07/2017	3	41.7	29/07/2017	3	40.8	30/07/2017	3	16.7
26/07/2017	4	6.3	27/07/2017	4	32.5	28/07/2017	4	47.5	29/07/2017	4	45.8	30/07/2017	4	15.4
26/07/2017	5	5	27/07/2017	5	33.3	28/07/2017	5	32.5	29/07/2017	5	58.3	30/07/2017	5	8.8
26/07/2017	6	5	27/07/2017	6	37.5	28/07/2017	6	5	29/07/2017	6	68.3	30/07/2017	6	7.1
26/07/2017	7	5	27/07/2017	7	42.5	28/07/2017	7	5	29/07/2017	7	75.8	30/07/2017	7	13.8
26/07/2017	8	5	27/07/2017	8	25.0	28/07/2017	8	6.3	29/07/2017	8	50.8	30/07/2017	8	8.8
26/07/2017	9	5	27/07/2017	9	5	28/07/2017	9	5	29/07/2017	9	7.1	30/07/2017	9	5
26/07/2017	10	5	27/07/2017	10	5	28/07/2017	10	5	29/07/2017	10	5	30/07/2017	10	5
26/07/2017	11	5	27/07/2017	11	5	28/07/2017	11	5	29/07/2017	11	5	30/07/2017	11	5
26/07/2017	12	5	27/07/2017	12	5	28/07/2017	12	5	29/07/2017	12	5	30/07/2017	12	5
26/07/2017	13	5	27/07/2017	13	5	28/07/2017	13	5	29/07/2017	13	5	30/07/2017	13	5
26/07/2017	14	5	27/07/2017	14	5	28/07/2017	14	5	29/07/2017	14	5	30/07/2017	14	5
26/07/2017	15	5	27/07/2017	15	5	28/07/2017	15	5	29/07/2017	15	5	30/07/2017	15	5
26/07/2017	16	5	27/07/2017	16	5	28/07/2017	16	5	29/07/2017	16	5	30/07/2017	16	5
26/07/2017	17	5	27/07/2017	17	5	28/07/2017	17	5	29/07/2017	17	5	30/07/2017	17	5
26/07/2017	18	5	27/07/2017	18	8.8	28/07/2017	18	16.3	29/07/2017	18	6.3	30/07/2017	18	5
26/07/2017	19	5	27/07/2017	19	12.5	28/07/2017	19	12.1	29/07/2017	19	12.1	30/07/2017	19	5
26/07/2017	20	5	27/07/2017	20	15.8	28/07/2017	20	26.7	29/07/2017	20	7.1	30/07/2017	20	5
26/07/2017	21	15.4	27/07/2017	21	16.7	28/07/2017	21	30.8	29/07/2017	21	5	30/07/2017	21	5
26/07/2017	22	13.3	27/07/2017	22	20.8	28/07/2017	22	37.5	29/07/2017	22	5	30/07/2017	22	5
26/07/2017	23	16.7	27/07/2017	23	22.5	28/07/2017	23	37.5	29/07/2017	23	5	30/07/2017	23	5
Maximum		16.7			42.5			47.5			75.8			16.7

Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average
31/07/2017	0	5	1/08/2017	0	5	2/08/2017	0	No Data	3/08/2017	0	5.4	4/08/2017	0	5
31/07/2017	1	5	1/08/2017	1	5	2/08/2017	1	No Data	3/08/2017	1	5	4/08/2017	1	5
31/07/2017	2	6.7	1/08/2017	2	10.8	2/08/2017	2	No Data	3/08/2017	2	5	4/08/2017	2	5
31/07/2017	3	8.3	1/08/2017	3	11.3	2/08/2017	3	No Data	3/08/2017	3	5.4	4/08/2017	3	5
31/07/2017	4	6.3	1/08/2017	4	21.7	2/08/2017	4	No Data	3/08/2017	4	5	4/08/2017	4	5
31/07/2017	5	5	1/08/2017	5	22.5	2/08/2017	5	No Data	3/08/2017	5	5	4/08/2017	5	5
31/07/2017	6	5	1/08/2017	6	24.2	2/08/2017	6	No Data	3/08/2017	6	5.4	4/08/2017	6	5
31/07/2017	7	5.4	1/08/2017	7	30.8	2/08/2017	7	No Data	3/08/2017	7	5.4	4/08/2017	7	5
31/07/2017	8	5	1/08/2017	8	20.4	2/08/2017	8	No Data	3/08/2017	8	8.3	4/08/2017	8	5
31/07/2017	9	7.5	1/08/2017	9	5	2/08/2017	9	No Data	3/08/2017	9	7.1	4/08/2017	9	5
31/07/2017	10	5.4	1/08/2017	10	5	2/08/2017	10	No Data	3/08/2017	10	5	4/08/2017	10	5
31/07/2017	11	5	1/08/2017	11	5	2/08/2017	11	No Data	3/08/2017	11	5	4/08/2017	11	5
31/07/2017	12	5	1/08/2017	12	11.7	2/08/2017	12	5	3/08/2017	12	5	4/08/2017	12	5
31/07/2017	13	5	1/08/2017	13	5	2/08/2017	13	5	3/08/2017	13	5	4/08/2017	13	5
31/07/2017	14	5	1/08/2017	14	5	2/08/2017	14	5	3/08/2017	14	5	4/08/2017	14	5
31/07/2017	15	5.4	1/08/2017	15	5	2/08/2017	15	5	3/08/2017	15	5	4/08/2017	15	5.4
31/07/2017	16	5	1/08/2017	16	5	2/08/2017	16	5	3/08/2017	16	5	4/08/2017	16	5
31/07/2017	17	5	1/08/2017	17	6.3	2/08/2017	17	5	3/08/2017	17	5	4/08/2017	17	5
31/07/2017	18	5	1/08/2017	18	11.3	2/08/2017	18	5	3/08/2017	18	5	4/08/2017	18	5
31/07/2017	19	5	1/08/2017	19	20.0	2/08/2017	19	5	3/08/2017	19	5	4/08/2017	19	5
31/07/2017	20	5	1/08/2017	20	16.3	2/08/2017	20	5	3/08/2017	20	5	4/08/2017	20	5
31/07/2017	21	5	1/08/2017	21	25.0	2/08/2017	21	5	3/08/2017	21	5	4/08/2017	21	5
31/07/2017	22	5	1/08/2017	22	23.6	2/08/2017	22	5	3/08/2017	22	5	4/08/2017	22	5
31/07/2017	23	5	1/08/2017	23	No Data	2/08/2017	23	5	3/08/2017	23	5	4/08/2017	23	5
Maximum		8.3			30.8			5.0			8.3			5.4

Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average
5/08/2017	0	5	6/08/2017	0	5	7/08/2017	0	5	8/08/2017	0	5	9/08/2017	0	5
5/08/2017	1	5	6/08/2017	1	5	7/08/2017	1	5	8/08/2017	1	5	9/08/2017	1	5
5/08/2017	2	5	6/08/2017	2	5	7/08/2017	2	5	8/08/2017	2	5	9/08/2017	2	5
5/08/2017	3	5	6/08/2017	3	5	7/08/2017	3	5	8/08/2017	3	5	9/08/2017	3	5.4
5/08/2017	4	5	6/08/2017	4	5	7/08/2017	4	5	8/08/2017	4	5	9/08/2017	4	5
5/08/2017	5	5	6/08/2017	5	5	7/08/2017	5	5	8/08/2017	5	5	9/08/2017	5	5
5/08/2017	6	5	6/08/2017	6	5	7/08/2017	6	5	8/08/2017	6	5	9/08/2017	6	5
5/08/2017	7	5	6/08/2017	7	5	7/08/2017	7	5	8/08/2017	7	5	9/08/2017	7	5
5/08/2017	8	5	6/08/2017	8	5	7/08/2017	8	5	8/08/2017	8	5	9/08/2017	8	5
5/08/2017	9	5	6/08/2017	9	5	7/08/2017	9	5	8/08/2017	9	5	9/08/2017	9	5
5/08/2017	10	5	6/08/2017	10	5	7/08/2017	10	5	8/08/2017	10	5	9/08/2017	10	5
5/08/2017	11	5	6/08/2017	11	5	7/08/2017	11	5	8/08/2017	11	8.8	9/08/2017	11	5
5/08/2017	12	5	6/08/2017	12	5	7/08/2017	12	5	8/08/2017	12	5	9/08/2017	12	5
5/08/2017	13	5	6/08/2017	13	5	7/08/2017	13	5	8/08/2017	13	5	9/08/2017	13	5
5/08/2017	14	5	6/08/2017	14	5	7/08/2017	14	5	8/08/2017	14	5	9/08/2017	14	5
5/08/2017	15	5	6/08/2017	15	5	7/08/2017	15	5	8/08/2017	15	5	9/08/2017	15	5
5/08/2017	16	5	6/08/2017	16	5	7/08/2017	16	5	8/08/2017	16	5	9/08/2017	16	5
5/08/2017	17	5	6/08/2017	17	5	7/08/2017	17	5	8/08/2017	17	5	9/08/2017	17	5
5/08/2017	18	5	6/08/2017	18	5	7/08/2017	18	5	8/08/2017	18	15.4	9/08/2017	18	5
5/08/2017	19	5	6/08/2017	19	5	7/08/2017	19	5	8/08/2017	19	5.4	9/08/2017	19	5
5/08/2017	20	5	6/08/2017	20	5	7/08/2017	20	5	8/08/2017	20	5	9/08/2017	20	7.1
5/08/2017	21	5	6/08/2017	21	5	7/08/2017	21	5	8/08/2017	21	5	9/08/2017	21	5
5/08/2017	22	5	6/08/2017	22	5	7/08/2017	22	5	8/08/2017	22	5	9/08/2017	22	5
5/08/2017	23	5	6/08/2017	23	5	7/08/2017	23	5	8/08/2017	23	5	9/08/2017	23	5
Maximum		5			5			5			15.4			7.1

Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average
10/08/2017	0	5	11/08/2017	0	5	12/08/2017	0	5	13/08/2017	0	5	14/08/2017	0	5
10/08/2017	1	5	11/08/2017	1	5	12/08/2017	1	5	13/08/2017	1	5	14/08/2017	1	5.4
10/08/2017	2	6.3	11/08/2017	2	5	12/08/2017	2	5	13/08/2017	2	5	14/08/2017	2	6.7
10/08/2017	3	6.3	11/08/2017	3	5	12/08/2017	3	5	13/08/2017	3	5	14/08/2017	3	6.3
10/08/2017	4	5.4	11/08/2017	4	5	12/08/2017	4	5	13/08/2017	4	5	14/08/2017	4	5.4
10/08/2017	5	6.3	11/08/2017	5	5	12/08/2017	5	7.9	13/08/2017	5	5	14/08/2017	5	6.7
10/08/2017	6	7.5	11/08/2017	6	5	12/08/2017	6	5	13/08/2017	6	5.4	14/08/2017	6	6.7
10/08/2017	7	9.2	11/08/2017	7	5	12/08/2017	7	5	13/08/2017	7	5.8	14/08/2017	7	10.8
10/08/2017	8	10.0	11/08/2017	8	5	12/08/2017	8	5	13/08/2017	8	5.4	14/08/2017	8	12.9
10/08/2017	9	5	11/08/2017	9	5	12/08/2017	9	5	13/08/2017	9	5	14/08/2017	9	5
10/08/2017	10	5	11/08/2017	10	5	12/08/2017	10	5	13/08/2017	10	5	14/08/2017	10	5
10/08/2017	11	5	11/08/2017	11	5	12/08/2017	11	5	13/08/2017	11	5	14/08/2017	11	5
10/08/2017	12	5	11/08/2017	12	5	12/08/2017	12	5	13/08/2017	12	5	14/08/2017	12	5
10/08/2017	13	5	11/08/2017	13	5	12/08/2017	13	5	13/08/2017	13	5	14/08/2017	13	5
10/08/2017	14	5	11/08/2017	14	5	12/08/2017	14	5	13/08/2017	14	5	14/08/2017	14	5
10/08/2017	15	5	11/08/2017	15	5	12/08/2017	15	5	13/08/2017	15	5	14/08/2017	15	5
10/08/2017	16	5	11/08/2017	16	5	12/08/2017	16	5	13/08/2017	16	5	14/08/2017	16	5
10/08/2017	17	5	11/08/2017	17	5	12/08/2017	17	5	13/08/2017	17	5	14/08/2017	17	5
10/08/2017	18	5	11/08/2017	18	5	12/08/2017	18	5	13/08/2017	18	5	14/08/2017	18	5
10/08/2017	19	5	11/08/2017	19	5	12/08/2017	19	5	13/08/2017	19	5	14/08/2017	19	5
10/08/2017	20	5	11/08/2017	20	5	12/08/2017	20	5	13/08/2017	20	5	14/08/2017	20	5
10/08/2017	21	5	11/08/2017	21	5	12/08/2017	21	5	13/08/2017	21	5	14/08/2017	21	5
10/08/2017	22	5	11/08/2017	22	5	12/08/2017	22	5	13/08/2017	22	5	14/08/2017	22	5
10/08/2017	23	5	11/08/2017	23	5	12/08/2017	23	5	13/08/2017	23	5	14/08/2017	23	5
Maximum		10.0			5			7.9			5.8			12.9

Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average
15/08/2017	0	5	16/08/2017	0	5	17/08/2017	0	5	18/08/2017	0	5	19/08/2017	0	5
15/08/2017	1	5	16/08/2017	1	5	17/08/2017	1	5	18/08/2017	1	5	19/08/2017	1	5
15/08/2017	2	5	16/08/2017	2	5	17/08/2017	2	5	18/08/2017	2	5	19/08/2017	2	5
15/08/2017	3	5	16/08/2017	3	5	17/08/2017	3	5	18/08/2017	3	5	19/08/2017	3	5
15/08/2017	4	5	16/08/2017	4	5	17/08/2017	4	5	18/08/2017	4	5	19/08/2017	4	5
15/08/2017	5	5	16/08/2017	5	5	17/08/2017	5	5	18/08/2017	5	5	19/08/2017	5	5
15/08/2017	6	5	16/08/2017	6	5	17/08/2017	6	5	18/08/2017	6	5	19/08/2017	6	5
15/08/2017	7	5	16/08/2017	7	5	17/08/2017	7	7.5	18/08/2017	7	5	19/08/2017	7	5.8
15/08/2017	8	5	16/08/2017	8	5	17/08/2017	8	5	18/08/2017	8	5	19/08/2017	8	5
15/08/2017	9	5	16/08/2017	9	5	17/08/2017	9	5	18/08/2017	9	5.4	19/08/2017	9	5
15/08/2017	10	5	16/08/2017	10	5	17/08/2017	10	5	18/08/2017	10	5	19/08/2017	10	5
15/08/2017	11	5	16/08/2017	11	5	17/08/2017	11	5	18/08/2017	11	5	19/08/2017	11	5
15/08/2017	12	5	16/08/2017	12	5	17/08/2017	12	5	18/08/2017	12	5	19/08/2017	12	5
15/08/2017	13	5	16/08/2017	13	5	17/08/2017	13	5	18/08/2017	13	5	19/08/2017	13	5
15/08/2017	14	5	16/08/2017	14	5	17/08/2017	14	5	18/08/2017	14	5	19/08/2017	14	5
15/08/2017	15	5	16/08/2017	15	5	17/08/2017	15	5	18/08/2017	15	5	19/08/2017	15	5
15/08/2017	16	5	16/08/2017	16	5	17/08/2017	16	5	18/08/2017	16	5	19/08/2017	16	5
15/08/2017	17	5	16/08/2017	17	5	17/08/2017	17	5	18/08/2017	17	5	19/08/2017	17	5
15/08/2017	18	5	16/08/2017	18	5	17/08/2017	18	5	18/08/2017	18	5.4	19/08/2017	18	5
15/08/2017	19	5	16/08/2017	19	5	17/08/2017	19	6.3	18/08/2017	19	5	19/08/2017	19	5
15/08/2017	20	5	16/08/2017	20	5	17/08/2017	20	5	18/08/2017	20	5	19/08/2017	20	5
15/08/2017	21	5	16/08/2017	21	5	17/08/2017	21	5	18/08/2017	21	5	19/08/2017	21	5
15/08/2017	22	5	16/08/2017	22	5	17/08/2017	22	5	18/08/2017	22	5	19/08/2017	22	5
15/08/2017	23	5	16/08/2017	23	5	17/08/2017	23	5	18/08/2017	23	5	19/08/2017	23	5
Maximum		5			5			7.5			5.4			5.8

Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average
20/08/2017	0	5	21/08/2017	0	5	22/08/2017	0	5	23/08/2017	0	5	24/08/2017	0	5
20/08/2017	1	5.4	21/08/2017	1	5.4	22/08/2017	1	5	23/08/2017	1	5	24/08/2017	1	5
20/08/2017	2	5.8	21/08/2017	2	5	22/08/2017	2	5	23/08/2017	2	5	24/08/2017	2	5
20/08/2017	3	5.4	21/08/2017	3	5	22/08/2017	3	5	23/08/2017	3	5	24/08/2017	3	5
20/08/2017	4	5.4	21/08/2017	4	5	22/08/2017	4	5	23/08/2017	4	5	24/08/2017	4	5
20/08/2017	5	6.7	21/08/2017	5	5	22/08/2017	5	5	23/08/2017	5	5	24/08/2017	5	5
20/08/2017	6	7.5	21/08/2017	6	5	22/08/2017	6	5	23/08/2017	6	5	24/08/2017	6	6.3
20/08/2017	7	11.7	21/08/2017	7	5	22/08/2017	7	5.4	23/08/2017	7	5.8	24/08/2017	7	8.8
20/08/2017	8	5.8	21/08/2017	8	5	22/08/2017	8	5	23/08/2017	8	15.8	24/08/2017	8	5
20/08/2017	9	5	21/08/2017	9	5.4	22/08/2017	9	5	23/08/2017	9	5	24/08/2017	9	5
20/08/2017	10	5	21/08/2017	10	5	22/08/2017	10	5	23/08/2017	10	5	24/08/2017	10	5
20/08/2017	11	5	21/08/2017	11	5	22/08/2017	11	5	23/08/2017	11	5	24/08/2017	11	5
20/08/2017	12	5	21/08/2017	12	5	22/08/2017	12	5	23/08/2017	12	5.4	24/08/2017	12	5
20/08/2017	13	5	21/08/2017	13	5	22/08/2017	13	5	23/08/2017	13	5	24/08/2017	13	5
20/08/2017	14	5	21/08/2017	14	5	22/08/2017	14	5	23/08/2017	14	5	24/08/2017	14	5
20/08/2017	15	5.4	21/08/2017	15	5	22/08/2017	15	5	23/08/2017	15	5	24/08/2017	15	5
20/08/2017	16	5	21/08/2017	16	5	22/08/2017	16	5	23/08/2017	16	5	24/08/2017	16	5
20/08/2017	17	5	21/08/2017	17	5	22/08/2017	17	5	23/08/2017	17	5	24/08/2017	17	5
20/08/2017	18	5	21/08/2017	18	5	22/08/2017	18	5	23/08/2017	18	5	24/08/2017	18	5
20/08/2017	19	5	21/08/2017	19	5	22/08/2017	19	5	23/08/2017	19	5	24/08/2017	19	5
20/08/2017	20	5	21/08/2017	20	5	22/08/2017	20	5.8	23/08/2017	20	5	24/08/2017	20	5
20/08/2017	21	5.4	21/08/2017	21	5	22/08/2017	21	5	23/08/2017	21	5	24/08/2017	21	5
20/08/2017	22	5.4	21/08/2017	22	5	22/08/2017	22	5	23/08/2017	22	5	24/08/2017	22	5
20/08/2017	23	5.4	21/08/2017	23	5	22/08/2017	23	5	23/08/2017	23	5	24/08/2017	23	5
Maximum		11.7			5.4			5.8			15.8			8.8

Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average
25/08/2017	0	5	26/08/2017	0	5	27/08/2017	0	5	28/08/2017	0	5	29/08/2017	0	5
25/08/2017	1	5	26/08/2017	1	5	27/08/2017	1	5	28/08/2017	1	5	29/08/2017	1	5
25/08/2017	2	5	26/08/2017	2	5	27/08/2017	2	5	28/08/2017	2	5	29/08/2017	2	5
25/08/2017	3	5	26/08/2017	3	5	27/08/2017	3	5	28/08/2017	3	5	29/08/2017	3	5
25/08/2017	4	5	26/08/2017	4	5	27/08/2017	4	5	28/08/2017	4	5	29/08/2017	4	5
25/08/2017	5	5	26/08/2017	5	5.8	27/08/2017	5	5	28/08/2017	5	5.8	29/08/2017	5	5.8
25/08/2017	6	5	26/08/2017	6	5.4	27/08/2017	6	5	28/08/2017	6	7.1	29/08/2017	6	14.2
25/08/2017	7	5	26/08/2017	7	12.1	27/08/2017	7	5.4	28/08/2017	7	5	29/08/2017	7	22.5
25/08/2017	8	5	26/08/2017	8	27.1	27/08/2017	8	5	28/08/2017	8	5	29/08/2017	8	5
25/08/2017	9	5	26/08/2017	9	5	27/08/2017	9	5	28/08/2017	9	5	29/08/2017	9	5
25/08/2017	10	6.3	26/08/2017	10	5	27/08/2017	10	5	28/08/2017	10	5	29/08/2017	10	5
25/08/2017	11	5	26/08/2017	11	5	27/08/2017	11	5	28/08/2017	11	5.4	29/08/2017	11	5
25/08/2017	12	5	26/08/2017	12	5	27/08/2017	12	5	28/08/2017	12	5	29/08/2017	12	5
25/08/2017	13	5	26/08/2017	13	5	27/08/2017	13	5	28/08/2017	13	5	29/08/2017	13	5
25/08/2017	14	5	26/08/2017	14	5	27/08/2017	14	5	28/08/2017	14	5	29/08/2017	14	5
25/08/2017	15	5	26/08/2017	15	5	27/08/2017	15	5	28/08/2017	15	5	29/08/2017	15	5
25/08/2017	16	5	26/08/2017	16	5	27/08/2017	16	5	28/08/2017	16	5	29/08/2017	16	5
25/08/2017	17	5	26/08/2017	17	5	27/08/2017	17	5	28/08/2017	17	5	29/08/2017	17	5
25/08/2017	18	5	26/08/2017	18	5	27/08/2017	18	5	28/08/2017	18	5	29/08/2017	18	5
25/08/2017	19	5	26/08/2017	19	5	27/08/2017	19	5	28/08/2017	19	5.4	29/08/2017	19	5
25/08/2017	20	5	26/08/2017	20	5	27/08/2017	20	5	28/08/2017	20	5	29/08/2017	20	5
25/08/2017	21	5.4	26/08/2017	21	5	27/08/2017	21	5	28/08/2017	21	5	29/08/2017	21	5
25/08/2017	22	5	26/08/2017	22	5	27/08/2017	22	5	28/08/2017	22	5	29/08/2017	22	5
25/08/2017	23	5	26/08/2017	23	5	27/08/2017	23	5	28/08/2017	23	5	29/08/2017	23	5
Maximum		6.3			27.1			5.4			7.1			22.5

Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average
30/08/2017	0	5	31/08/2017	0	5									
30/08/2017	1	5	31/08/2017	1	5									
30/08/2017	2	5	31/08/2017	2	5									
30/08/2017	3	5	31/08/2017	3	5									
30/08/2017	4	5	31/08/2017	4	5									
30/08/2017	5	5	31/08/2017	5	5									
30/08/2017	6	5.8	31/08/2017	6	No Data									
30/08/2017	7	5.8	31/08/2017	7	No Data									
30/08/2017	8	5.8	31/08/2017	8	No Data									
30/08/2017	9	5	31/08/2017	9	No Data									
30/08/2017	10	5	31/08/2017	10	No Data									
30/08/2017	11	5	31/08/2017	11	No Data									
30/08/2017	12	5	31/08/2017	12	5									
30/08/2017	13	5	31/08/2017	13	5									
30/08/2017	14	5	31/08/2017	14	5									
30/08/2017	15	5	31/08/2017	15	5									
30/08/2017	16	5	31/08/2017	16	5									
30/08/2017	17	5	31/08/2017	17	5									
30/08/2017	18	5	31/08/2017	18	5									
30/08/2017	19	5	31/08/2017	19	5									
30/08/2017	20	5	31/08/2017	20	5									
30/08/2017	21	5	31/08/2017	21	5									
30/08/2017	22	5	31/08/2017	22	5.4									
30/08/2017	23	5	31/08/2017	23	8.3									
Maximum		5.8			8.3									

Table 6: SO₂ 1hr Data (ppb) – July & August 2017

Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average
26/07/2017	0	50	27/07/2017	0	50	28/07/2017	0	50	29/07/2017	0	50	30/07/2017	0	50
26/07/2017	1	50	27/07/2017	1	50	28/07/2017	1	50	29/07/2017	1	50	30/07/2017	1	50
26/07/2017	2	50	27/07/2017	2	50	28/07/2017	2	50	29/07/2017	2	50	30/07/2017	2	50
26/07/2017	3	50	27/07/2017	3	50	28/07/2017	3	50	29/07/2017	3	50	30/07/2017	3	50
26/07/2017	4	50	27/07/2017	4	50	28/07/2017	4	50	29/07/2017	4	50	30/07/2017	4	50
26/07/2017	5	50	27/07/2017	5	50	28/07/2017	5	50	29/07/2017	5	50	30/07/2017	5	50
26/07/2017	6	50	27/07/2017	6	50	28/07/2017	6	50	29/07/2017	6	50	30/07/2017	6	50
26/07/2017	7	50	27/07/2017	7	50	28/07/2017	7	50	29/07/2017	7	50	30/07/2017	7	50
26/07/2017	8	50	27/07/2017	8	50	28/07/2017	8	50	29/07/2017	8	50	30/07/2017	8	50
26/07/2017	9	50	27/07/2017	9	50	28/07/2017	9	50	29/07/2017	9	50	30/07/2017	9	50
26/07/2017	10	50	27/07/2017	10	50	28/07/2017	10	50	29/07/2017	10	50	30/07/2017	10	50
26/07/2017	11	50	27/07/2017	11	50	28/07/2017	11	50	29/07/2017	11	50	30/07/2017	11	50
26/07/2017	12	50	27/07/2017	12	50	28/07/2017	12	50	29/07/2017	12	50	30/07/2017	12	50
26/07/2017	13	50	27/07/2017	13	50	28/07/2017	13	50	29/07/2017	13	50	30/07/2017	13	50
26/07/2017	14	50	27/07/2017	14	50	28/07/2017	14	50	29/07/2017	14	50	30/07/2017	14	50
26/07/2017	15	50	27/07/2017	15	50	28/07/2017	15	50	29/07/2017	15	50	30/07/2017	15	50
26/07/2017	16	50	27/07/2017	16	50	28/07/2017	16	50	29/07/2017	16	50	30/07/2017	16	50
26/07/2017	17	50	27/07/2017	17	50	28/07/2017	17	50	29/07/2017	17	50	30/07/2017	17	50
26/07/2017	18	50	27/07/2017	18	50	28/07/2017	18	50	29/07/2017	18	50	30/07/2017	18	50
26/07/2017	19	50	27/07/2017	19	50	28/07/2017	19	50	29/07/2017	19	50	30/07/2017	19	50
26/07/2017	20	50	27/07/2017	20	50	28/07/2017	20	50	29/07/2017	20	50	30/07/2017	20	50
26/07/2017	21	50	27/07/2017	21	50	28/07/2017	21	50	29/07/2017	21	50	30/07/2017	21	50
26/07/2017	22	50	27/07/2017	22	50	28/07/2017	22	50	29/07/2017	22	50	30/07/2017	22	50
26/07/2017	23	50	27/07/2017	23	50	28/07/2017	23	50	29/07/2017	23	50	30/07/2017	23	50
Maximum		50			50			50			50			50

Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average
31/07/2017	0	50	1/08/2017	0	50	2/08/2017	0	50	3/08/2017	0	50	4/08/2017	0	50
31/07/2017	1	50	1/08/2017	1	50	2/08/2017	1	50	3/08/2017	1	50	4/08/2017	1	50
31/07/2017	2	50	1/08/2017	2	50	2/08/2017	2	50	3/08/2017	2	50	4/08/2017	2	50
31/07/2017	3	50	1/08/2017	3	50	2/08/2017	3	50	3/08/2017	3	50	4/08/2017	3	50
31/07/2017	4	50	1/08/2017	4	50	2/08/2017	4	50	3/08/2017	4	50	4/08/2017	4	50
31/07/2017	5	50	1/08/2017	5	50	2/08/2017	5	50	3/08/2017	5	50	4/08/2017	5	50
31/07/2017	6	50	1/08/2017	6	50	2/08/2017	6	50	3/08/2017	6	50	4/08/2017	6	50
31/07/2017	7	50	1/08/2017	7	50	2/08/2017	7	50	3/08/2017	7	50	4/08/2017	7	50
31/07/2017	8	50	1/08/2017	8	50	2/08/2017	8	50	3/08/2017	8	50	4/08/2017	8	50
31/07/2017	9	50	1/08/2017	9	50	2/08/2017	9	50	3/08/2017	9	50	4/08/2017	9	50
31/07/2017	10	50	1/08/2017	10	50	2/08/2017	10	50	3/08/2017	10	50	4/08/2017	10	50
31/07/2017	11	50	1/08/2017	11	50	2/08/2017	11	50	3/08/2017	11	50	4/08/2017	11	50
31/07/2017	12	50	1/08/2017	12	50	2/08/2017	12	50	3/08/2017	12	50	4/08/2017	12	50
31/07/2017	13	50	1/08/2017	13	50	2/08/2017	13	50	3/08/2017	13	50	4/08/2017	13	50
31/07/2017	14	50	1/08/2017	14	50	2/08/2017	14	50	3/08/2017	14	50	4/08/2017	14	50
31/07/2017	15	50	1/08/2017	15	50	2/08/2017	15	50	3/08/2017	15	50	4/08/2017	15	50
31/07/2017	16	50	1/08/2017	16	50	2/08/2017	16	50	3/08/2017	16	50	4/08/2017	16	50
31/07/2017	17	50	1/08/2017	17	50	2/08/2017	17	50	3/08/2017	17	50	4/08/2017	17	50
31/07/2017	18	50	1/08/2017	18	50	2/08/2017	18	50	3/08/2017	18	50	4/08/2017	18	50
31/07/2017	19	50	1/08/2017	19	50	2/08/2017	19	50	3/08/2017	19	50	4/08/2017	19	50
31/07/2017	20	50	1/08/2017	20	50	2/08/2017	20	50	3/08/2017	20	50	4/08/2017	20	50
31/07/2017	21	50	1/08/2017	21	50	2/08/2017	21	50	3/08/2017	21	50	4/08/2017	21	50
31/07/2017	22	50	1/08/2017	22	50	2/08/2017	22	50	3/08/2017	22	50	4/08/2017	22	50
31/07/2017	23	50	1/08/2017	23	50	2/08/2017	23	50	3/08/2017	23	50	4/08/2017	23	50
Maximum		50			50			50			50			50

Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average
5/08/2017	0	50	6/08/2017	0	50	7/08/2017	0	50	8/08/2017	0	50	9/08/2017	0	50
5/08/2017	1	50	6/08/2017	1	50	7/08/2017	1	50	8/08/2017	1	50	9/08/2017	1	50
5/08/2017	2	50	6/08/2017	2	50	7/08/2017	2	50	8/08/2017	2	50	9/08/2017	2	50
5/08/2017	3	50	6/08/2017	3	50	7/08/2017	3	50	8/08/2017	3	50	9/08/2017	3	50
5/08/2017	4	50	6/08/2017	4	50	7/08/2017	4	50	8/08/2017	4	50	9/08/2017	4	50
5/08/2017	5	50	6/08/2017	5	50	7/08/2017	5	50	8/08/2017	5	50	9/08/2017	5	50
5/08/2017	6	50	6/08/2017	6	50	7/08/2017	6	50	8/08/2017	6	50	9/08/2017	6	50
5/08/2017	7	50	6/08/2017	7	50	7/08/2017	7	50	8/08/2017	7	50	9/08/2017	7	50
5/08/2017	8	50	6/08/2017	8	50	7/08/2017	8	50	8/08/2017	8	50	9/08/2017	8	50
5/08/2017	9	50	6/08/2017	9	50	7/08/2017	9	50	8/08/2017	9	50	9/08/2017	9	50
5/08/2017	10	50	6/08/2017	10	50	7/08/2017	10	50	8/08/2017	10	50	9/08/2017	10	50
5/08/2017	11	50	6/08/2017	11	50	7/08/2017	11	50	8/08/2017	11	50	9/08/2017	11	50
5/08/2017	12	50	6/08/2017	12	50	7/08/2017	12	50	8/08/2017	12	50	9/08/2017	12	50
5/08/2017	13	50	6/08/2017	13	50	7/08/2017	13	50	8/08/2017	13	50	9/08/2017	13	50
5/08/2017	14	50	6/08/2017	14	50	7/08/2017	14	50	8/08/2017	14	50	9/08/2017	14	50
5/08/2017	15	50	6/08/2017	15	50	7/08/2017	15	50	8/08/2017	15	50	9/08/2017	15	50
5/08/2017	16	50	6/08/2017	16	50	7/08/2017	16	50	8/08/2017	16	50	9/08/2017	16	50
5/08/2017	17	50	6/08/2017	17	50	7/08/2017	17	50	8/08/2017	17	50	9/08/2017	17	50
5/08/2017	18	50	6/08/2017	18	50	7/08/2017	18	50	8/08/2017	18	50	9/08/2017	18	50
5/08/2017	19	50	6/08/2017	19	50	7/08/2017	19	50	8/08/2017	19	50	9/08/2017	19	50
5/08/2017	20	50	6/08/2017	20	50	7/08/2017	20	50	8/08/2017	20	50	9/08/2017	20	50
5/08/2017	21	50	6/08/2017	21	50	7/08/2017	21	50	8/08/2017	21	50	9/08/2017	21	50
5/08/2017	22	50	6/08/2017	22	50	7/08/2017	22	50	8/08/2017	22	50	9/08/2017	22	50
5/08/2017	23	50	6/08/2017	23	50	7/08/2017	23	50	8/08/2017	23	50	9/08/2017	23	50
Maximum		50			50			50			50			50

Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average
10/08/2017	0	50	11/08/2017	0	50	12/08/2017	0	50	13/08/2017	0	50	14/08/2017	0	50
10/08/2017	1	50	11/08/2017	1	50	12/08/2017	1	50	13/08/2017	1	50	14/08/2017	1	50
10/08/2017	2	50	11/08/2017	2	50	12/08/2017	2	50	13/08/2017	2	50	14/08/2017	2	50
10/08/2017	3	50	11/08/2017	3	50	12/08/2017	3	50	13/08/2017	3	50	14/08/2017	3	50
10/08/2017	4	50	11/08/2017	4	50	12/08/2017	4	50	13/08/2017	4	50	14/08/2017	4	50
10/08/2017	5	50	11/08/2017	5	50	12/08/2017	5	50	13/08/2017	5	50	14/08/2017	5	50
10/08/2017	6	50	11/08/2017	6	50	12/08/2017	6	50	13/08/2017	6	50	14/08/2017	6	50
10/08/2017	7	50	11/08/2017	7	50	12/08/2017	7	50	13/08/2017	7	50	14/08/2017	7	50
10/08/2017	8	50	11/08/2017	8	50	12/08/2017	8	50	13/08/2017	8	50	14/08/2017	8	50
10/08/2017	9	50	11/08/2017	9	50	12/08/2017	9	50	13/08/2017	9	50	14/08/2017	9	50
10/08/2017	10	50	11/08/2017	10	50	12/08/2017	10	50	13/08/2017	10	50	14/08/2017	10	50
10/08/2017	11	50	11/08/2017	11	50	12/08/2017	11	50	13/08/2017	11	50	14/08/2017	11	50
10/08/2017	12	50	11/08/2017	12	50	12/08/2017	12	50	13/08/2017	12	50	14/08/2017	12	50
10/08/2017	13	50	11/08/2017	13	50	12/08/2017	13	50	13/08/2017	13	50	14/08/2017	13	50
10/08/2017	14	50	11/08/2017	14	50	12/08/2017	14	50	13/08/2017	14	50	14/08/2017	14	50
10/08/2017	15	50	11/08/2017	15	50	12/08/2017	15	50	13/08/2017	15	50	14/08/2017	15	50
10/08/2017	16	50	11/08/2017	16	50	12/08/2017	16	50	13/08/2017	16	50	14/08/2017	16	50
10/08/2017	17	50	11/08/2017	17	50	12/08/2017	17	50	13/08/2017	17	50	14/08/2017	17	50
10/08/2017	18	50	11/08/2017	18	50	12/08/2017	18	50	13/08/2017	18	50	14/08/2017	18	50
10/08/2017	19	50	11/08/2017	19	50	12/08/2017	19	50	13/08/2017	19	50	14/08/2017	19	50
10/08/2017	20	50	11/08/2017	20	50	12/08/2017	20	50	13/08/2017	20	50	14/08/2017	20	50
10/08/2017	21	50	11/08/2017	21	50	12/08/2017	21	50	13/08/2017	21	50	14/08/2017	21	50
10/08/2017	22	50	11/08/2017	22	50	12/08/2017	22	50	13/08/2017	22	50	14/08/2017	22	50
10/08/2017	23	50	11/08/2017	23	50	12/08/2017	23	50	13/08/2017	23	50	14/08/2017	23	50
Maximum		50			50			50			50			50

Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average
15/08/2017	0	50	16/08/2017	0	50	17/08/2017	0	50	18/08/2017	0	50	19/08/2017	0	50
15/08/2017	1	50	16/08/2017	1	50	17/08/2017	1	50	18/08/2017	1	50	19/08/2017	1	50
15/08/2017	2	50	16/08/2017	2	50	17/08/2017	2	50	18/08/2017	2	50	19/08/2017	2	50
15/08/2017	3	50	16/08/2017	3	50	17/08/2017	3	50	18/08/2017	3	50	19/08/2017	3	50
15/08/2017	4	50	16/08/2017	4	50	17/08/2017	4	50	18/08/2017	4	50	19/08/2017	4	50
15/08/2017	5	50	16/08/2017	5	50	17/08/2017	5	50	18/08/2017	5	50	19/08/2017	5	50
15/08/2017	6	50	16/08/2017	6	50	17/08/2017	6	50	18/08/2017	6	50	19/08/2017	6	50
15/08/2017	7	50	16/08/2017	7	50	17/08/2017	7	50	18/08/2017	7	50	19/08/2017	7	50
15/08/2017	8	50	16/08/2017	8	50	17/08/2017	8	50	18/08/2017	8	50	19/08/2017	8	50
15/08/2017	9	50	16/08/2017	9	50	17/08/2017	9	50	18/08/2017	9	50	19/08/2017	9	50
15/08/2017	10	50	16/08/2017	10	50	17/08/2017	10	50	18/08/2017	10	50	19/08/2017	10	50
15/08/2017	11	50	16/08/2017	11	50	17/08/2017	11	50	18/08/2017	11	50	19/08/2017	11	50
15/08/2017	12	50	16/08/2017	12	50	17/08/2017	12	50	18/08/2017	12	50	19/08/2017	12	50
15/08/2017	13	50	16/08/2017	13	50	17/08/2017	13	50	18/08/2017	13	50	19/08/2017	13	50
15/08/2017	14	50	16/08/2017	14	50	17/08/2017	14	50	18/08/2017	14	50	19/08/2017	14	50
15/08/2017	15	50	16/08/2017	15	50	17/08/2017	15	50	18/08/2017	15	50	19/08/2017	15	50
15/08/2017	16	50	16/08/2017	16	50	17/08/2017	16	50	18/08/2017	16	50	19/08/2017	16	50
15/08/2017	17	50	16/08/2017	17	50	17/08/2017	17	50	18/08/2017	17	50	19/08/2017	17	50
15/08/2017	18	50	16/08/2017	18	50	17/08/2017	18	50	18/08/2017	18	50	19/08/2017	18	50
15/08/2017	19	50	16/08/2017	19	50	17/08/2017	19	50	18/08/2017	19	50	19/08/2017	19	50
15/08/2017	20	50	16/08/2017	20	50	17/08/2017	20	50	18/08/2017	20	50	19/08/2017	20	50
15/08/2017	21	50	16/08/2017	21	50	17/08/2017	21	50	18/08/2017	21	50	19/08/2017	21	50
15/08/2017	22	50	16/08/2017	22	50	17/08/2017	22	50	18/08/2017	22	50	19/08/2017	22	50
15/08/2017	23	50	16/08/2017	23	50	17/08/2017	23	50	18/08/2017	23	50	19/08/2017	23	50
Maximum		50			50			50			50			50

Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average
20/08/2017	0	50	21/08/2017	0	50	22/08/2017	0	50	23/08/2017	0	50	24/08/2017	0	50
20/08/2017	1	50	21/08/2017	1	50	22/08/2017	1	50	23/08/2017	1	50	24/08/2017	1	50
20/08/2017	2	50	21/08/2017	2	50	22/08/2017	2	50	23/08/2017	2	50	24/08/2017	2	50
20/08/2017	3	50	21/08/2017	3	50	22/08/2017	3	50	23/08/2017	3	50	24/08/2017	3	50
20/08/2017	4	50	21/08/2017	4	50	22/08/2017	4	50	23/08/2017	4	50	24/08/2017	4	50
20/08/2017	5	50	21/08/2017	5	50	22/08/2017	5	50	23/08/2017	5	50	24/08/2017	5	50
20/08/2017	6	50	21/08/2017	6	50	22/08/2017	6	50	23/08/2017	6	50	24/08/2017	6	50
20/08/2017	7	50	21/08/2017	7	50	22/08/2017	7	50	23/08/2017	7	50	24/08/2017	7	50
20/08/2017	8	50	21/08/2017	8	50	22/08/2017	8	50	23/08/2017	8	50	24/08/2017	8	50
20/08/2017	9	50	21/08/2017	9	50	22/08/2017	9	50	23/08/2017	9	50	24/08/2017	9	50
20/08/2017	10	50	21/08/2017	10	50	22/08/2017	10	50	23/08/2017	10	50	24/08/2017	10	50
20/08/2017	11	50	21/08/2017	11	50	22/08/2017	11	50	23/08/2017	11	50	24/08/2017	11	50
20/08/2017	12	50	21/08/2017	12	50	22/08/2017	12	50	23/08/2017	12	50	24/08/2017	12	50
20/08/2017	13	50	21/08/2017	13	50	22/08/2017	13	50	23/08/2017	13	50	24/08/2017	13	50
20/08/2017	14	50	21/08/2017	14	50	22/08/2017	14	50	23/08/2017	14	50	24/08/2017	14	50
20/08/2017	15	50	21/08/2017	15	50	22/08/2017	15	50	23/08/2017	15	50	24/08/2017	15	50
20/08/2017	16	50	21/08/2017	16	50	22/08/2017	16	50	23/08/2017	16	50	24/08/2017	16	50
20/08/2017	17	50	21/08/2017	17	50	22/08/2017	17	50	23/08/2017	17	50	24/08/2017	17	50
20/08/2017	18	50	21/08/2017	18	50	22/08/2017	18	50	23/08/2017	18	50	24/08/2017	18	50
20/08/2017	19	50	21/08/2017	19	50	22/08/2017	19	50	23/08/2017	19	50	24/08/2017	19	50
20/08/2017	20	50	21/08/2017	20	50	22/08/2017	20	50	23/08/2017	20	50	24/08/2017	20	50
20/08/2017	21	50	21/08/2017	21	50	22/08/2017	21	50	23/08/2017	21	50	24/08/2017	21	50
20/08/2017	22	50	21/08/2017	22	50	22/08/2017	22	50	23/08/2017	22	50	24/08/2017	22	50
20/08/2017	23	50	21/08/2017	23	50	22/08/2017	23	50	23/08/2017	23	50	24/08/2017	23	50
Maximum		50			50			50			50			50

Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average
25/08/2017	0	50	26/08/2017	0	50	27/08/2017	0	50	28/08/2017	0	50	29/08/2017	0	50
25/08/2017	1	50	26/08/2017	1	50	27/08/2017	1	50	28/08/2017	1	50	29/08/2017	1	50
25/08/2017	2	50	26/08/2017	2	50	27/08/2017	2	50	28/08/2017	2	50	29/08/2017	2	50
25/08/2017	3	50	26/08/2017	3	50	27/08/2017	3	50	28/08/2017	3	50	29/08/2017	3	50
25/08/2017	4	50	26/08/2017	4	50	27/08/2017	4	50	28/08/2017	4	50	29/08/2017	4	50
25/08/2017	5	50	26/08/2017	5	50	27/08/2017	5	50	28/08/2017	5	50	29/08/2017	5	50
25/08/2017	6	50	26/08/2017	6	50	27/08/2017	6	50	28/08/2017	6	50	29/08/2017	6	50
25/08/2017	7	50	26/08/2017	7	50	27/08/2017	7	50	28/08/2017	7	50	29/08/2017	7	50
25/08/2017	8	50	26/08/2017	8	50	27/08/2017	8	50	28/08/2017	8	50	29/08/2017	8	50
25/08/2017	9	50	26/08/2017	9	50	27/08/2017	9	50	28/08/2017	9	50	29/08/2017	9	50
25/08/2017	10	50	26/08/2017	10	50	27/08/2017	10	50	28/08/2017	10	50	29/08/2017	10	50
25/08/2017	11	50	26/08/2017	11	50	27/08/2017	11	50	28/08/2017	11	50	29/08/2017	11	50
25/08/2017	12	50	26/08/2017	12	50	27/08/2017	12	50	28/08/2017	12	50	29/08/2017	12	50
25/08/2017	13	50	26/08/2017	13	50	27/08/2017	13	50	28/08/2017	13	50	29/08/2017	13	50
25/08/2017	14	50	26/08/2017	14	50	27/08/2017	14	50	28/08/2017	14	50	29/08/2017	14	50
25/08/2017	15	50	26/08/2017	15	50	27/08/2017	15	50	28/08/2017	15	50	29/08/2017	15	50
25/08/2017	16	50	26/08/2017	16	50	27/08/2017	16	50	28/08/2017	16	50	29/08/2017	16	50
25/08/2017	17	50	26/08/2017	17	50	27/08/2017	17	50	28/08/2017	17	50	29/08/2017	17	50
25/08/2017	18	50	26/08/2017	18	50	27/08/2017	18	50	28/08/2017	18	50	29/08/2017	18	50
25/08/2017	19	50	26/08/2017	19	50	27/08/2017	19	50	28/08/2017	19	50	29/08/2017	19	50
25/08/2017	20	50	26/08/2017	20	50	27/08/2017	20	50	28/08/2017	20	50	29/08/2017	20	50
25/08/2017	21	50	26/08/2017	21	50	27/08/2017	21	50	28/08/2017	21	50	29/08/2017	21	50
25/08/2017	22	50	26/08/2017	22	50	27/08/2017	22	50	28/08/2017	22	50	29/08/2017	22	50
25/08/2017	23	50	26/08/2017	23	50	27/08/2017	23	50	28/08/2017	23	50	29/08/2017	23	50
Maximum		50			50			50			50			50

Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average	Date	Hour	1hr Average
30/08/2017	0	50	31/08/2017	0	50									
30/08/2017	1	50	31/08/2017	1	50									
30/08/2017	2	50	31/08/2017	2	50									
30/08/2017	3	50	31/08/2017	3	50									
30/08/2017	4	50	31/08/2017	4	50									
30/08/2017	5	50	31/08/2017	5	50									
30/08/2017	6	50	31/08/2017	6	50									
30/08/2017	7	50	31/08/2017	7	50									
30/08/2017	8	50	31/08/2017	8	50									
30/08/2017	9	50	31/08/2017	9	50									
30/08/2017	10	50	31/08/2017	10	50									
30/08/2017	11	50	31/08/2017	11	50									
30/08/2017	12	50	31/08/2017	12	50									
30/08/2017	13	50	31/08/2017	13	50									
30/08/2017	14	50	31/08/2017	14	50									
30/08/2017	15	50	31/08/2017	15	50									
30/08/2017	16	50	31/08/2017	16	50									
30/08/2017	17	50	31/08/2017	17	50									
30/08/2017	18	50	31/08/2017	18	50									
30/08/2017	19	50	31/08/2017	19	50									
30/08/2017	20	50	31/08/2017	20	50									
30/08/2017	21	50	31/08/2017	21	50									
30/08/2017	22	50	31/08/2017	22	50									
30/08/2017	23	50	31/08/2017	23	50									
Maximum		50			50									