

**STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION**



**VERIFICATION OF CONTINUED ATTAINMENT  
FOR THE HILLSBOROUGH-POLK COUNTY  
SULFUR DIOXIDE (SO<sub>2</sub>) MAINTENANCE AREA**

**June 20, 2023**

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## **1. Background**

Effective March 23, 2020, the U.S. Environmental Protection Agency (EPA) approved Florida's redesignation request and maintenance plan for the Hillsborough-Polk sulfur dioxide (SO<sub>2</sub>) maintenance area. 85 Fed. Reg. 9,666 (February 20, 2020). The maintenance plan includes a section regarding verification of ongoing attainment, which requires the Florida Department of Environmental Protection (Department) to provide an annual report to EPA on or before July 1 of each year, which certifies whether the area is continuing to attain the 2010 SO<sub>2</sub> national ambient air quality standard (NAAQS). This annual report must include:

- 1) The status of ongoing compliance with the SO<sub>2</sub> emission limits for the Mosaic New Wales and Mosaic Bartow facilities;
- 2) A review of annual emissions data for these facilities;
- 3) A review of the air dispersion modeling inputs and assumptions identified by EPA in coordination with the Department;
- 4) A certification that there are no changes in the air dispersion modeling inputs and assumptions that could result in a modeled violation; and
- 5) All supporting documentation and data evaluated by the Department in preparing its annual report.

This annual report addresses the items listed above to demonstrate that the Hillsborough-Polk maintenance area continues to attain the 2010 SO<sub>2</sub> NAAQS.

## **2. Status of Ongoing Compliance with the SO<sub>2</sub> Emission Limits**

The attainment modeling demonstration was based on permitted SO<sub>2</sub> emissions caps of 1,090 pounds per hour (lb/hr) for the five sulfuric acid plants (SAPs) at New Wales and 1,100 lb/hr for the three SAPs at Bartow, based on a 24-hour average as determined by continuous emission monitoring systems (CEMS) data. These SO<sub>2</sub> emissions limits have been incorporated into Florida's State Implementation Plan (SIP) to make the limits permanent and federally enforceable.

Mosaic has been in compliance with the 24-hour block average SAP emissions for each facility since the limits became effective on August 31, 2019. **Appendix A** provides all of the 24-hour averages from January 1, 2022, through December 31, 2022. All of the 24-hour averages are below the respective limits for each facility, demonstrating that Mosaic continues to comply with the SO<sub>2</sub> emissions limits at both facilities, as required to maintain the NAAQS.

## **3. Review of Annual Emissions Data**

**Table 1** shows the 2022 annual emissions from New Wales and Bartow in relation to the potential to emit from those facilities. As the attainment modeling demonstration uses potential to emit, there has been less SO<sub>2</sub> emitted from these facilities than was modeled.

**Table 1:** 2022 annual SO<sub>2</sub> emissions from New Wales and Bartow compared to the potential to emit.

Facility	2022 Actual Emissions (TPY)	Potential to Emit (TPY)	Percentage of Potential to Emit
New Wales SAPs 1-5	2,781.6	4,774	58.3%
Bartow SAPs 4-6	2,894.3	4,818	60.1%

#### **4. Review of Air Dispersion Modeling Inputs and Assumptions**

The Department coordinated with EPA to determine which modeling inputs and assumptions used in the attainment modeling demonstration should be reviewed to determine whether there have been any changes that could result in a modeled violation of the 2010 SO<sub>2</sub> NAAQS. These modeling inputs and assumptions are discussed below.

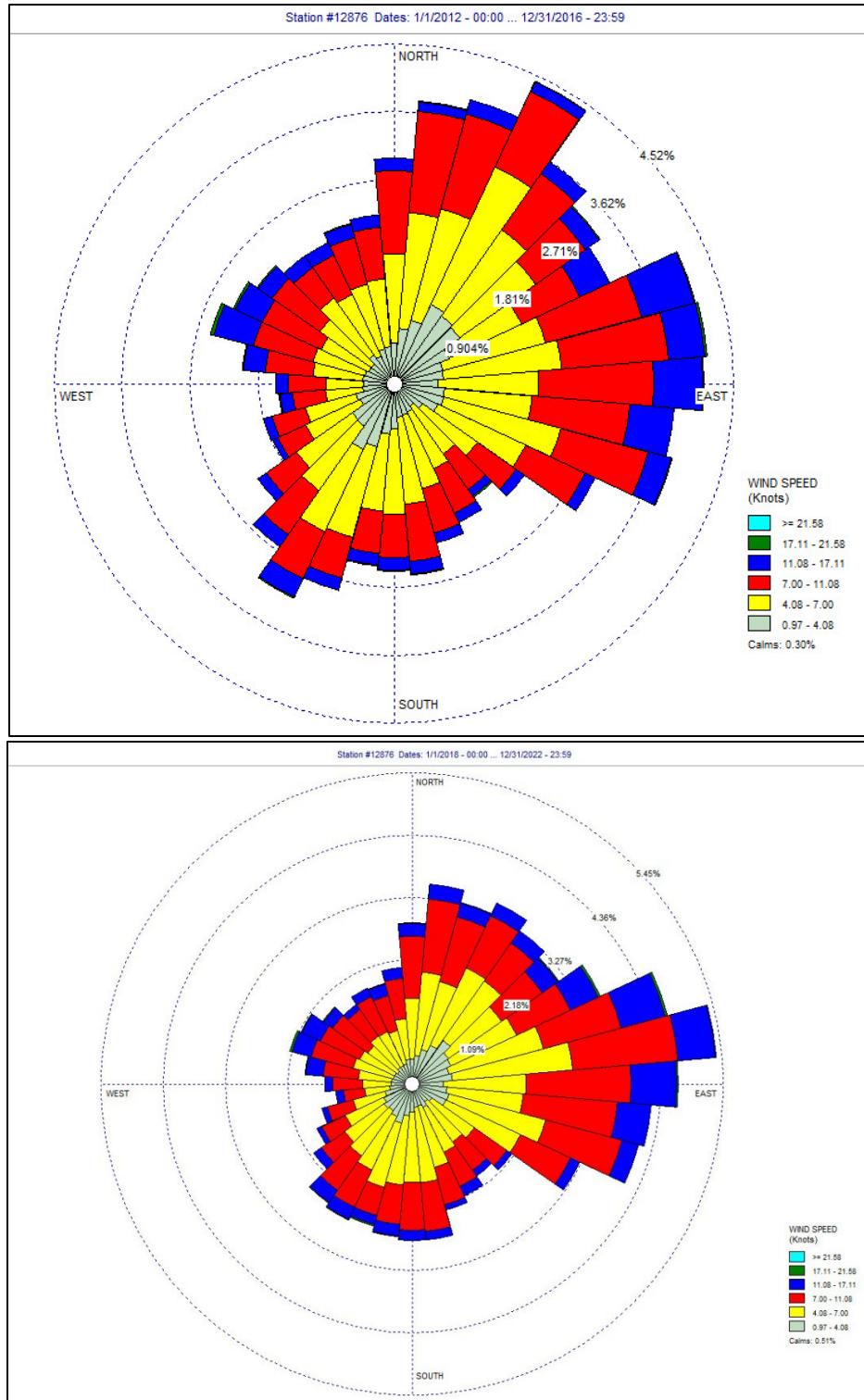
##### Source-Specific Modeling Inputs and Assumptions

The stack parameters for each SAP at New Wales and Bartow have not changed since the Department submitted its attainment modeling demonstration. There has not been any construction or new buildings added at New Wales or Bartow that could change building downwash parameters.

Operations of the SAPs at both New Wales and Bartow have not changed and continue to reflect what was modeled in the attainment modeling demonstration. Therefore, no change in the temporal or spatial distribution of SO<sub>2</sub> emissions or concentrations is expected.

##### Meteorology

The Department analyzed the meteorology and wind rose data for the most recent five years of available data (2018-2022) and compared these data to the meteorology and wind rose data for the five years used in the attainment modeling demonstration (2012-2016). **Figure 1** shows the wind roses for these two periods and shows that the wind pattern is very similar between the two periods.



**Figure 1:** Wind rose data for the KGIF Winter Haven Regional Airport ASOS station for the years 2012-2016 (top) and 2018-2022 (bottom)

The most important wind direction to analyze is when the wind is traveling from Bartow towards New Wales. This is the wind direction that results in the maximum modeled concentrations

because it includes impacts from both the New Wales facility and the nearby Bartow facility. Bartow is approximately 45 degrees northeast of New Wales, so the Department looked at the proportion of time that the wind direction was in the range of 0 to 90 degrees. This range conservatively covers all potential periods when Bartow emissions could be contributing to modeled SO<sub>2</sub> concentrations near New Wales.

**Table 2** compares the percentage of time that winds were from 0-90 degrees in the 2012-2016 meteorology dataset and the 2018-2022 meteorology dataset. There is a slight decrease in the percentage of time that winds blow from Bartow towards New Wales in the 2018-2022 dataset, which would be expected to cause a slight, but potentially insignificant, decrease in modeled concentrations.

**Table 2:** Percentage of time wind direction is from 0 to 90 degrees

Years	Wind Direction 0-90°
2012-2016	33.51%
2018-2022	33.13%

#### Land-Use in the Area

Land use in the area, which can affect the meteorological parameters, has not changed since the area attained the NAAQS.

#### Ambient Background Concentrations

The Department evaluated ambient background concentrations of SO<sub>2</sub> at the Department's Sydney monitoring location (12-057-3002). The Department used 2014-2016 data from the Sydney monitor to calculate background SO<sub>2</sub> concentrations used in the attainment modeling demonstration.

**Table 3** shows that the one-hour SO<sub>2</sub> design value at the Sydney monitor has decreased from 13 ppb to 6 ppb since the 2014-2016 period.

**Table 3:** SO<sub>2</sub> 1-hour design values at the Sydney monitor

Period	Design Value
2014-2016	13 ppb
2015-2017	10 ppb
2016-2018	9 ppb
2017-2019	9 ppb
2018-2020	9 ppb
2019-2021	6 ppb
2020-2022	6 ppb

The Department also recalculated the background SO<sub>2</sub> concentrations averaged by season and hour for the most recent three years of available data (2020-2022). **Table 4** and **Table 5** show the

background concentrations for the 2014-2016 period, which the Department used in the attainment modeling demonstration, and the 2020-2022 period, respectively. The maximum background SO<sub>2</sub> value for 2014-2016 is 7.33 µg/m<sup>3</sup>. The maximum background SO<sub>2</sub> value for 2020-2022 is 3.25 µg/m<sup>3</sup>, a significant decrease.

**Table 4:** Background SO<sub>2</sub> concentrations (µg/m<sup>3</sup>) used in the Department's attainment modeling demonstration (2014-2016)

Hour	Winter	Spring	Summer	Fall
0:00	1.00	1.33	0.67	2.33
1:00	2.00	1.33	1.00	2.00
2:00	1.67	1.33	0.67	2.67
3:00	1.33	1.67	1.00	2.33
4:00	1.33	1.67	1.00	3.33
5:00	1.33	1.67	0.67	3.00
6:00	1.00	2.33	1.00	1.33
7:00	1.67	2.67	2.33	3.00
8:00	2.33	3.00	2.33	7.33
9:00	4.00	3.33	3.67	6.00
10:00	3.00	3.00	3.33	3.67
11:00	3.00	3.00	3.00	3.33
12:00	3.33	2.67	2.33	2.67
13:00	3.00	2.00	2.00	2.33
14:00	3.67	2.33	2.67	1.67
15:00	2.33	2.67	2.00	2.33
16:00	3.33	3.00	1.67	2.67
17:00	3.33	2.67	1.33	2.00
18:00	2.33	3.67	1.00	1.67
19:00	2.67	5.33	1.00	2.33
20:00	2.67	3.00	0.67	1.67
21:00	1.67	2.67	1.00	2.00
22:00	2.00	1.33	1.33	2.33
23:00	1.33	1.00	1.00	1.33

**Table 5:** Background SO<sub>2</sub> concentrations ( $\mu\text{g}/\text{m}^3$ ) for the most recent three years (2020-2022)

Hour	Winter	Spring	Summer	Fall
0:00	0.92	0.93	0.86	0.80
1:00	1.35	0.85	0.78	1.37
2:00	1.36	0.76	0.88	1.10
3:00	1.05	0.87	0.84	1.22
4:00	0.87	0.83	0.83	0.81
5:00	0.87	0.73	0.68	0.85
6:00	0.82	0.77	0.85	0.84
7:00	0.83	1.05	1.77	0.87
8:00	0.84	1.56	2.63	1.36
9:00	1.11	1.62	2.47	1.94
10:00	1.43	1.61	1.84	1.64
11:00	1.33	2.04	1.90	1.78
12:00	1.28	1.54	2.17	1.34
13:00	1.58	1.84	1.95	1.39
14:00	1.84	2.15	1.73	1.41
15:00	1.67	1.72	1.61	1.29
16:00	1.50	2.52	1.40	1.73
17:00	2.41	3.17	1.52	1.36
18:00	3.25	2.78	1.76	1.71
19:00	2.07	2.32	1.67	1.22
20:00	1.57	2.16	1.36	0.90
21:00	1.17	1.46	1.01	0.81
22:00	1.14	1.02	0.90	0.67
23:00	1.04	1.07	0.91	0.66

### Critical Emissions Value

The critical emissions value (CEV) is the emissions level (lb/hr) at which the maximum modeled concentration is equal to the NAAQS. The CEVs calculated in the attainment demonstration modeling for New Wales and Bartow are 1,118 lb/hr and 1,163 lb/hr, respectively. The emissions data submitted with the Department's redesignation request and attainment modeling demonstration from August 31, 2019 (the attainment date), through October 2, 2019, exceeded the CEV 2.8 percent of the time at New Wales, and 1.0 percent of the time at Bartow, while still maintaining the permitted emissions limits.

The Department analyzed the frequency that each facility's emissions exceeded their respective CEVs from January 1, 2022, through December 31, 2022 (see **Appendix B**). Emissions from

New Wales exceeded the CEV 0.5 percent of the time, and emissions from Bartow exceeded the CEV 0.6 percent of the time, while still maintaining the permitted emissions limits. It is expected that these occasional spikes above the CEV, which can occur with longer-term limits such as 24-hour average limits, are unlikely to have a significant impact on air quality, as they are unlikely to occur repeatedly at the same time as meteorological conditions conducive to high ambient concentrations of SO<sub>2</sub>.

In addition, considering that the ambient background concentrations of SO<sub>2</sub> at the Sydney monitor have decreased since the 2014-2016 period, it is evident that the CEVs of 1,118 lb/hr and 1,163 lb/hr for New Wales and Bartow are conservative. If the CEVs were recalculated with updated modeling, the updated CEVs would be higher, and the frequency that the hourly emissions would exceed the CEVs may be reduced.

## **5. Certification of Continued Attainment**

The Department certifies that there are no changes in the air dispersion modeling inputs and assumptions that could result in a modeled violation. The Department recommends, therefore, that no additional action or information is necessary to verify continued attainment. The Department expects that the Hillsborough-Polk maintenance area will continue to maintain the 2010 SO<sub>2</sub> NAAQS.

**Appendix A**  
**New Wales and Bartow Facilities 24-Hour Block Average SAP Emissions**

**NAAQS SO<sub>2</sub> lb/hr Daily CAPs**



**Table 1. CY 2022 SO<sub>2</sub> lb /hour, 24-hour block average (6:00 a.m. to 6:00 a.m.)**

Date	New Wales Cap 1,090 PPH	Bartow Cap 1,100 PPH
1/1/2022	1,021	1,063
1/2/2022	1,015	1,008
1/3/2022	577	1,090
1/4/2022	633	918
1/5/2022	754	774
1/6/2022	783	999
1/7/2022	702	1,060
1/8/2022	676	1,049
1/9/2022	667	1,083
1/10/2022	721	1,048
1/11/2022	1,066	1,055
1/12/2022	1,012	1,048
1/13/2022	946	1,043
1/14/2022	915	1,046
1/15/2022	915	1,054
1/16/2022	892	1,045
1/17/2022	900	1,042
1/18/2022	879	766
1/19/2022	845	1,068
1/20/2022	814	580
1/21/2022	859	955
1/22/2022	932	1,050
1/23/2022	867	1,068
1/24/2022	772	1,072
1/25/2022	873	871
1/26/2022	841	1,073
1/27/2022	644	783
1/28/2022	749	686
1/29/2022	694	468
1/30/2022	736	108
1/31/2022	608	703
2/1/2022	671	713
2/2/2022	339	697
2/3/2022	313	550
2/4/2022	344	763
2/5/2022	477	986
2/6/2022	511	1,049
2/7/2022	738	1,064
2/8/2022	706	585
2/9/2022	731	748
2/10/2022	642	787
2/11/2022	531	337

## NAAQS SO<sub>2</sub> lb/hr Daily CAPs



**Table 1. CY 2022 SO<sub>2</sub> lb /hour, 24-hour block average (6:00 a.m. to 6:00 a.m.)**

Date	New Wales Cap 1,090 PPH	Bartow Cap 1,100 PPH
2/12/2022	452	709
2/13/2022	126	1,083
2/14/2022	102	453
2/15/2022	243	275
2/16/2022	218	275
2/17/2022	233	484
2/18/2022	469	521
2/19/2022	513	962
2/20/2022	501	1,068
2/21/2022	543	928
2/22/2022	581	1,064
2/23/2022	586	1,074
2/24/2022	559	1,079
2/25/2022	574	1,081
2/26/2022	576	1,077
2/27/2022	599	1,092
2/28/2022	531	1,082
3/1/2022	596	907
3/2/2022	599	1,045
3/3/2022	515	1,072
3/4/2022	514	1,031
3/5/2022	462	1,067
3/6/2022	540	1,036
3/7/2022	593	874
3/8/2022	602	995
3/9/2022	625	753
3/10/2022	565	806
3/11/2022	627	778
3/12/2022	603	769
3/13/2022	616	779
3/14/2022	551	769
3/15/2022	616	668
3/16/2022	529	752
3/17/2022	363	621
3/18/2022	316	1,005
3/19/2022	407	1,045
3/20/2022	521	1,085
3/21/2022	598	903
3/22/2022	500	847
3/23/2022	462	879
3/24/2022	512	822
3/25/2022	719	778

## NAAQS SO<sub>2</sub> lb/hr Daily CAPs



**Table 1. CY 2022 SO<sub>2</sub> lb /hour, 24-hour block average (6:00 a.m. to 6:00 a.m.)**

Date	New Wales Cap 1,090 PPH	Bartow Cap 1,100 PPH
3/26/2022	738	772
3/27/2022	747	840
3/28/2022	644	968
3/29/2022	660	911
3/30/2022	539	889
3/31/2022	566	900
4/1/2022	584	932
4/2/2022	672	941
4/3/2022	739	948
4/4/2022	767	910
4/5/2022	686	462
4/6/2022	499	453
4/7/2022	496	406
4/8/2022	548	936
4/9/2022	576	912
4/10/2022	546	952
4/11/2022	495	957
4/12/2022	555	591
4/13/2022	492	414
4/14/2022	495	397
4/15/2022	578	621
4/16/2022	541	417
4/17/2022	607	728
4/18/2022	717	560
4/19/2022	411	833
4/20/2022	494	1,068
4/21/2022	299	1,079
4/22/2022	483	1,098
4/23/2022	512	1,083
4/24/2022	635	1,084
4/25/2022	583	972
4/26/2022	531	1,064
4/27/2022	467	727
4/28/2022	518	750
4/29/2022	627	787
4/30/2022	606	701
5/1/2022	771	786
5/2/2022	765	800
5/3/2022	810	805
5/4/2022	742	804
5/5/2022	598	793
5/6/2022	698	506

## NAAQS SO<sub>2</sub> lb/hr Daily CAPs



Table 1. CY 2022 SO<sub>2</sub> lb /hour, 24-hour block average (6:00 a.m. to 6:00 a.m.)

Date	New Wales Cap 1,090 PPH	Barlow Cap 1,100 PPH
5/7/2022	762	779
5/8/2022	789	810
5/9/2022	658	709
5/10/2022	721	587
5/11/2022	683	753
5/12/2022	685	802
5/13/2022	772	811
5/14/2022	655	787
5/15/2022	708	798
5/16/2022	759	818
5/17/2022	819	786
5/18/2022	701	766
5/19/2022	336	749
5/20/2022	688	742
5/21/2022	755	736
5/22/2022	709	739
5/23/2022	598	728
5/24/2022	344	754
5/25/2022	357	782
5/26/2022	249	290
5/27/2022	266	664
5/28/2022	285	777
5/29/2022	432	779
5/30/2022	541	783
5/31/2022	544	767
6/1/2022	618	427
6/2/2022	434	582
6/3/2022	479	409
6/4/2022	375	460
6/5/2022	256	566
6/6/2022	266	683
6/7/2022	379	596
6/8/2022	497	818
6/9/2022	353	817
6/10/2022	286	809
6/11/2022	295	802
6/12/2022	430	801
6/13/2022	441	522
6/14/2022	181	401
6/15/2022	272	555
6/16/2022	451	398
6/17/2022	634	491

## NAAQS SO<sub>2</sub> lb/hr Daily CAPs



**Table 1. CY 2022 SO<sub>2</sub> lb /hour, 24-hour block average (6:00 a.m. to 6:00 a.m.)**

Date	New Wales Cap 1,090 PPH	Barlow Cap 1,100 PPH
6/18/2022	871	478
6/19/2022	847	599
6/20/2022	549	588
6/21/2022	594	567
6/22/2022	678	607
6/23/2022	410	753
6/24/2022	559	585
6/25/2022	574	640
6/26/2022	613	420
6/27/2022	717	763
6/28/2022	823	425
6/29/2022	559	787
6/30/2022	495	776
7/1/2022	819	800
7/2/2022	814	799
7/3/2022	761	800
7/4/2022	934	800
7/5/2022	837	797
7/6/2022	749	797
7/7/2022	701	769
7/8/2022	910	763
7/9/2022	987	638
7/10/2022	1,028	443
7/11/2022	792	437
7/12/2022	757	538
7/13/2022	619	373
7/14/2022	596	614
7/15/2022	655	896
7/16/2022	671	1,082
7/17/2022	724	1,022
7/18/2022	745	1,043
7/19/2022	1,042	824
7/20/2022	706	878
7/21/2022	768	1,067
7/22/2022	909	1,081
7/23/2022	982	1,020
7/24/2022	744	1,054
7/25/2022	781	901
7/26/2022	728	465
7/27/2022	736	653
7/28/2022	474	752
7/29/2022	647	1,052

## NAAQS SO<sub>2</sub> lb/hr Daily CAPs



**Table 1. CY 2022 SO<sub>2</sub> lb /hour, 24-hour block average (6:00 a.m. to 6:00 a.m.)**

Date	New Wales Cap 1,090 PPH	Barlow Cap 1,100 PPH
7/30/2022	878	940
7/31/2022	861	960
8/1/2022	729	721
8/2/2022	689	741
8/3/2022	397	304
8/4/2022	354	321
8/5/2022	377	360
8/6/2022	410	423
8/7/2022	588	457
8/8/2022	602	545
8/9/2022	457	489
8/10/2022	703	522
8/11/2022	591	520
8/12/2022	715	502
8/13/2022	752	297
8/14/2022	784	697
8/15/2022	717	703
8/16/2022	636	719
8/17/2022	614	775
8/18/2022	538	762
8/19/2022	658	685
8/20/2022	789	753
8/21/2022	767	651
8/22/2022	781	610
8/23/2022	765	1,033
8/24/2022	726	1,082
8/25/2022	808	1,067
8/26/2022	607	1,084
8/27/2022	503	1,054
8/28/2022	314	923
8/29/2022	488	1,092
8/30/2022	446	695
8/31/2022	404	738
9/1/2022	380	740
9/2/2022	535	754
9/3/2022	582	753
9/4/2022	572	490
9/5/2022	617	849
9/6/2022	598	755
9/7/2022	646	867
9/8/2022	729	868
9/9/2022	708	406

## NAAQS SO<sub>2</sub> lb/hr Daily CAPs



Table 1. CY 2022 SO<sub>2</sub> lb /hour, 24-hour block average (6:00 a.m. to 6:00 a.m.)

Date	New Wales Cap 1,090 PPH	Bartow Cap 1,100 PPH
9/10/2022	739	648
9/11/2022	747	569
9/12/2022	501	276
9/13/2022	577	269
9/14/2022	652	115
9/15/2022	725	179
9/16/2022	724	195
9/17/2022	674	198
9/18/2022	735	143
9/19/2022	773	39
9/20/2022	823	235
9/21/2022	913	538
9/22/2022	833	556
9/23/2022	697	625
9/24/2022	732	286
9/25/2022	719	126
9/26/2022	575	120
9/27/2022	546	125
9/28/2022	265	135
9/29/2022	142	135
9/30/2022	116	0
10/1/2022	227	0
10/2/2022	218	0
10/3/2022	263	0
10/4/2022	250	0
10/5/2022	265	64
10/6/2022	450	100
10/7/2022	330	171
10/8/2022	480	400
10/9/2022	500	339
10/10/2022	515	167
10/11/2022	596	283
10/12/2022	517	325
10/13/2022	367	579
10/14/2022	559	676
10/15/2022	593	496
10/16/2022	594	665
10/17/2022	589	650
10/18/2022	600	681
10/19/2022	747	645
10/20/2022	682	690
10/21/2022	740	697

## NAAQS SO<sub>2</sub> lb/hr Daily CAPs



**Table 1. CY 2022 SO<sub>2</sub> lb /hour, 24-hour block average (6:00 a.m. to 6:00 a.m.)**

Date	New Wales Cap 1,090 PPH	Barlow Cap 1,100 PPH
10/22/2022	507	672
10/23/2022	462	695
10/24/2022	546	647
10/25/2022	759	665
10/26/2022	700	535
10/27/2022	682	670
10/28/2022	695	596
10/29/2022	926	669
10/30/2022	921	692
10/31/2022	998	596
11/1/2022	978	336
11/2/2022	963	408
11/3/2022	806	406
11/4/2022	1,037	353
11/5/2022	1,055	50
11/6/2022	1,021	692
11/7/2022	866	580
11/8/2022	983	292
11/9/2022	993	323
11/10/2022	1,066	256
11/11/2022	802	395
11/12/2022	913	389
11/13/2022	855	437
11/14/2022	838	302
11/15/2022	881	192
11/16/2022	739	278
11/17/2022	841	539
11/18/2022	843	458
11/19/2022	862	524
11/20/2022	889	572
11/21/2022	888	585
11/22/2022	976	623
11/23/2022	932	675
11/24/2022	926	721
11/25/2022	960	395
11/26/2022	960	263
11/27/2022	998	389
11/28/2022	750	390
11/29/2022	317	384
11/30/2022	325	376
12/1/2022	480	367
12/2/2022	401	371

## NAAQS SO<sub>2</sub> lb/hr Daily CAPs



Table 1. CY 2022 SO<sub>2</sub> lb /hour, 24-hour block average (6:00 a.m. to 6:00 a.m.)

Date	New Wales Cap 1,090 PPH	Barlow Cap 1,100 PPH
12/3/2022	455	337
12/4/2022	440	238
12/5/2022	435	461
12/6/2022	486	534
12/7/2022	495	586
12/8/2022	721	706
12/9/2022	732	696
12/10/2022	735	628
12/11/2022	759	660
12/12/2022	764	643
12/13/2022	757	539
12/14/2022	700	708
12/15/2022	898	690
12/16/2022	795	658
12/17/2022	706	661
12/18/2022	735	645
12/19/2022	505	542
12/20/2022	576	254
12/21/2022	712	224
12/22/2022	769	282
12/23/2022	871	292
12/24/2022	891	302
12/25/2022	890	280
12/26/2022	873	323
12/27/2022	778	303
12/28/2022	766	361
12/29/2022	770	327
12/30/2022	756	348
12/31/2022	791	371

**Appendix B**  
**New Wales and Bartow Facilities – Frequency of SO<sub>2</sub> Emissions  
 over the Critical Emission Value (CEV)**

**Table 1.** Bartow Sulfuric Acid Plants –  
 Hours Over the Critical Emission Value (CEV)

<b>Month</b>	<b>Hours Over CEV (hr)</b>	<b>Operating Hours (hr)</b>	<b>Percent Over CEV</b>
January 2022	5	744	0.7%
February 2022	5	672	0.7%
March 2022	8	743	1.1%
April 2022	2	720	0.3%
May 2022	0	744	0.0%
June 2022	0	717	0.0%
July 2022	22	744	3.0%
August 2022	7	738	0.9%
September 2022	0	633	0.0%
October 2022	0	608	0.0%
November 2022	2	678	0.3%
December 2022	0	744	0.0%
<b>Total</b>	<b>51</b>	<b>8,485</b>	<b>0.6%</b>

**Table 2.** New Wales Sulfuric Acid Plants –  
 Hours Over the Critical Emission Value (CEV)

<b>Month</b>	<b>Hours Over CEV (hr)</b>	<b>Operating Hours (hr)</b>	<b>Percent Over CEV</b>
January 2022	4	744	0.5%
February 2022	2	643	0.3%
March 2022	1	744	0.1%
April 2022	3	720	0.4%
May 2022	0	744	0.0%
June 2022	1	720	0.1%
July 2022	10	744	1.3%
August 2022	1	733	0.1%
September 2022	1	720	0.1%
October 2022	3	744	0.4%
November 2022	14	720	1.9%
December 2022	2	744	0.3%
<b>Total</b>	<b>42</b>	<b>8,720</b>	<b>0.5%</b>