HF SINCLAIR BRANDS

O. Reg. 88/22: Air Pollution – Discharge of Sulphur Dioxide from Petroleum Facilities

Petro-Canada Lubricants Inc., O. Reg. 88/22 s.34(2) Public Report for Q1, 2025

May 30, 2025

Petro-Canada Lubricants Inc.
2310 Lakeshore Road West, Mississauga, Ontario, Canada, L5J 1K2
844-388-2665 | HFSinclair.com

This report is being made pursuant to section 34(2) of Ontario Regulation 88/22, and provides a public posting of the following information:

1. The date and time period of any contraventions of sections 8 to 16.
2. A summary of any measures identified under paragraph 6 of section 32 that were implemented at the facility during the quarter, their implementation dates and an assessment of their effectiveness.
3. The information required under paragraphs 1 to 3 of section 38.
4. The records required under paragraphs 3 and 5 of section 39.
5. The information required under paragraphs 1 and 3 of subsection 40(2).

The sections covered under conditions 34(2) paragraphs 1 and 2 are not yet in force; therefore, no information is provided.

Continuous Monitoring Reporting

The records required under paragraphs 1 to 3 of section 38 are presented in Appendix A.

Community Monitoring Reporting

The records required under paragraph 3 of section 39 are presented in Table 1 and Table 2 below.

Table 1: Determinations of SO2 Concentrations Exceeding 200 ppb Averaged Over a Five-Minute Period

Exceedance ID	Monitoring Station ID	Date	Time	Concentration (ppb by volume)
No exceedances in the reporting period				

Table 2: Determinations of SO2 Concentrations Exceeding 120 ppb Averaged Over a One-Hour Period

Exceedance ID	Monitoring Station ID	Date	Time	Concentration (ppb by volume)
No exceedances in the reporting period				

For the reporting period, no concentrations were reportable under paragraph 3 of section 39. Therefore, no information is required to be reported under paragraph 5 of section 39. Petro-Canada Lubricants Inc. has an approved Community Monitoring Plan prepared in accordance with the requirements of section 27 of O. Reg. 88/22.

Petro-Canada Lubricants Inc. has not received a written notice from the Director under section 40(1); therefore, no information is provided pursuant to section 34(2) 5.

Appendix A

The following Data file contains:

- Main (North and South) Stack CEMs data,
  - Corrected for the commissioning RATA correction factors.
  - Air and Moisture Free SO2 Concentrations for the North and South Stacks based on that data.
- Fuel Gas H2S Concentration Estimate Calculations
  - This is based on the North Stack CEMs data, and fuel firing data, and validated lab results.
  - Note, the Fuel Firing data sources do not have a rigorous QA/QC program and as such, the Fuel H2S estimate is prone to some degree of error, as evidenced by the bias correction factors applied based on Lab feedback.
- Flare Operating Parameters
  - Only periods of Flare Activation are analyzed.
  - Flare activation is estimated by flare header pressure. The activation pressures can change in time based on plant operational needs.
  - Validated, moisture-corrected Flare Gas analysis.
  - Estimated Steam Rates. Estimate is based on controller output, actual steam rates can vary based a number of variables such as steam header pressure, control valve performance, and temperature, none of which can be accounted for.

PCLI Summary of Sulphur Emissions

Mass Emission Rate of Sulphur Dioxide Discharged to Air

From	Average kg/h	Minimum kg/h	Maximum kg/h
17 South	25.34	10.39	523.05
30 North	20.35	0.39	96.87
07 Heaters	0.38	0.00	5.60
98 Flares	7.92	0.00	437.95

Total Sulphur Dioxide Emissions

From	Tonnes
17 South	54.6
30 North	43.3
07 Heaters	0.8
98 Flares	22.8
Total	121.6

Stack CEMS Data

	North Stack					North Stack SO2			South Stack					South Stack SO2		
						1Hr	3Hr	365Day						1 Hr	3Hr	365Day
	Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected			Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected		
Timestamp	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv
1/1/25 0:00	8.69	289	27.7	5.73	15.3	48.3	50.2	39.3	1.24	401	251.6	17.2	6.16	2106	2091	2824
1/1/25 1:00	8.54	288	22.7	5.61	15.4	39.3	49.3	39.3	1.21	400	258.0	17.2	6.10	2178	2126	2824
1/1/25 2:00	8.54	288	22.3	4.88	15.4	36.4	45.5	39.3	1.23	399	237.4	17.3	6.09	2033	2151	2824
1/1/25 3:00	8.53	288	22.7	4.89	15.4	37.0	41.3	39.3	1.23	398	249.2	17.3	6.11	2140	2119	2824
1/1/25 4:00	8.51	288	22.9	4.90	15.4	37.4	37.5	39.3	1.18	398	252.4	17.2	6.02	2127	2110	2824
1/1/25 5:00	8.54	287	23.2	4.91	15.4	38.0	36.9	39.3	1.25	396	247.8	17.3	5.93	2089	2120	2823
1/1/25 6:00	8.52	287	24.3	5.72	15.3	42.3	37.5	39.3	1.25	398	259.3	17.2	6.00	2178	2171	2823
1/1/25 7:00	8.47	287	17.9	5.38	15.2	30.4	39.2	39.3	1.24	398	233.3	17.3	5.90	1997	2177	2823
1/1/25 8:00	8.49	287	16.8	4.95	15.2	27.4	36.9	39.3	1.16	399	231.1	17.3	5.96	1946	2114	2823
1/1/25 9:00	8.46	286	17.9	5.03	15.2	29.4	33.4	39.3	1.14	401	243.5	17.3	5.93	2077	2085	2823
1/1/25 10:00	8.45	287	19.1	5.07	15.2	31.4	29.1	39.3	1.13	396	223.3	17.4	5.59	1910	2036	2823
1/1/25 11:00	8.48	288	19.3	5.10	15.2	31.9	29.4	39.3	1.12	398	228.9	17.3	5.56	1911	2048	2822
1/1/25 12:00	8.53	289	23.2	5.77	15.0	40.4	30.9	39.3	1.15	396	243.4	17.3	5.61	2032	1984	2822
1/1/25 13:00	8.52	289	23.3	5.95	15.1	41.2	34.6	39.3	1.14	392	224.9	17.3	5.45	1884	1957	2822
1/1/25 14:00	8.52	288	26.1	5.59	15.1	44.8	37.8	39.3	1.24	392	222.1	17.4	5.53	1907	1917	2822
1/1/25 15:00	8.49	288	28.3	5.19	15.1	47.0	42.1	39.3	1.17	394	220.5	17.4	5.37	1907	1899	2822
1/1/25 16:00	8.50	287	30.0	5.13	15.2	49.7	44.3	39.3	1.10	394	229.2	17.4	5.41	1917	1904	2821
1/1/25 17:00	8.48	286	28.6	5.16	15.2	47.6	47.2	39.3	1.16	395	232.0	17.3	5.39	1894	1900	2821
1/1/25 18:00	8.54	287	28.2	5.67	15.2	48.9	48.1	39.3	1.06	395	238.4	17.3	5.54	1944	1881	2821
1/1/25 19:00	8.63	286	25.9	5.75	15.1	45.0	48.7	39.3	1.09	395	225.8	17.3	5.45	1862	1876	2821
1/1/25 20:00	8.55	286	25.7	5.76	15.1	44.6	47.1	39.3	1.11	395	235.3	17.4	5.39	1980	1895	2821
1/1/25 21:00	8.55	285	25.7	5.45	15.1	43.6	46.2	39.3	1.10	395	230.2	17.3	5.48	1932	1898	2820
1/1/25 22:00	8.57	284	26.1	5.09	15.2	43.2	44.4	39.3	1.11	394	214.0	17.3	5.39	1780	1895	2820
1/1/25 23:00	8.46	283	26.2	5.07	15.3	43.2	43.8	39.3	1.13	393	227.0	17.4	5.44	1902	1861	2820
1/2/25 0:00	8.49	283	28.3	5.49	15.2	48.3	43.3	39.3	1.14	393	214.1	17.3	5.43	1757	1853	2820
1/2/25 1:00	8.48	283	25.7	5.58	15.2	44.1	44.9	39.3	1.06	393	221.7	17.3	5.52	1857	1835	2819
1/2/25 2:00	8.48	283	26.2	5.57	15.2	45.0	45.2	39.3	1.12	392	213.9	17.4	5.38	1802	1830	2819
1/2/25 3:00	8.48	283	25.1	5.27	15.2	42.0	45.8	39.3	1.17	392	224.2	17.3	5.46	1862	1826	2819
1/2/25 4:00	8.51	284	25.1	5.08	15.2	41.4	43.7	39.3	1.10	391	216.9	17.4	5.32	1823	1826	2819
1/2/25 5:00	8.50	283	25.2	5.10	15.2	41.6	42.8	39.3	1.13	390	205.0	17.4	5.20	1706	1813	2819
1/2/25 6:00	8.53	283	28.3	5.47	15.1	48.1	41.7	39.3	1.14	386	198.5	17.4	5.06	1648	1785	2818
1/2/25 7:00	8.53	283	22.0	5.02	15.1	36.5	43.7	39.3	1.15	387	209.2	17.4	5.17	1750	1747	2818
1/2/25 8:00	8.55	283	16.6	4.60	15.2	26.5	42.1	39.3	1.15	386	221.5	17.3	5.46	1847	1736	2818
1/2/25 9:00	8.57	282	17.5	4.57	15.2	27.8	37.0	39.3	1.11	384	203.1	17.4	5.36	1692	1723	2818
1/2/25 10:00	8.45	278	17.5	4.55	15.2	27.6	30.2	39.3	1.19	385	208.3	17.4	5.23	1736	1743	2817
1/2/25 11:00	8.24	278	18.0	4.60	15.2	28.6	27.3	39.3	1.16	382	222.0	17.4	5.04	1817	1729	2817
1/2/25 12:00	8.22	278	20.1	6.07	15.1	36.1	28.0	39.3	1.18	384	217.9	17.4	5.23	1823	1764	2817
1/2/25 13:00	8.26	279	18.3	4.93	15.1	29.8	30.8	39.3	1.17	381	269.7	17.6	4.95	2417	1808	2817
1/2/25 14:00	8.29	277	20.2	4.78	15.1	32.6	31.5	39.3	1.15	371	263.0	17.8	4.43	2469	2492	2817
1/2/25 15:00	8.28	278	21.2	4.78	15.1	34.1	32.8	39.3	1.14	369	543.8	17.7	4.57	4912	3125	2817
1/2/25 16:00	8.44	285	20.7	4.85	15.0	33.4	32.2	39.3	1.13	375	193.9	17.6	4.98	1758	3404	2817
1/2/25 17:00	8.75	287	19.2	4.83	15.0	31.0	33.4	39.3	1.14	372	306.8	17.8	4.70	2851	2743	2817
1/2/25 18:00	8.80	286	20.5	6.21	14.9	37.0	32.8	39.3	1.23	378	219.2	17.6	5.19	1980	2272	2817
1/2/25 19:00	8.73	282	19.1	4.87	15.1	31.0	33.8	39.3	1.14	378	171.6	17.6	5.18	1574	1925	2816
1/2/25 20:00	8.48	279	20.3	4.74	15.0	32.5	33.0	39.3	1.12	376	282.7	17.6	4.99	2577	2082	2816
1/2/25 21:00	8.36	275	21.2	4.68	15.0	33.7	33.5	39.3	1.15	379	294.9	17.5	5.20	2617	1914	2816
1/2/25 22:00	8.22	276	21.5	4.69	15.0	34.2	32.4	39.3	1.11	379	175.6	17.6	5.05	1608	1925	2816
1/2/25 23:00	8.28	275	21.3	4.72	15.0	34.1	33.5	39.3	1.12	380	178.8	17.6	5.24	1641	1701	2816
1/3/25 0:00	8.29	277	22.6	6.18	14.9	40.9	34.0	39.3	1.17	378	162.3	17.7	5.02	1494	1605	2815
1/3/25 1:00	8.40	276	21.3	4.78	15.0	34.2	36.4	39.3	1.15	378	189.0	17.6	4.99	1695	1546	2815
1/3/25 2:00	8.28	275	20.6	4.73	14.9	32.9	36.4	39.3	1.28	382	216.0	17.6	5.22	1974	1629	2815
1/3/25 3:00	8.30	275	21.2	4.73	15.0	34.0	36.0	39.3	1.16	380	200.2	17.7	4.98	1826	1722	2815
1/3/25 4:00	8.30	278	21.4	4.75	14.9	34.2	33.7	39.3	1.11	383	195.3	17.5	5.16	1718	1795	2814
1/3/25 5:00	8.41	276	21.9	4.72	14.9	35.0	33.7	39.3	1.12	385	214.0	17.5	5.36	1863	1777	2814
1/3/25 6:00	8.29	276	23.4	6.20	14.7	42.3	34.4	39.3	1.14	387	200.2	17.5	5.43	1762	1780	2814
1/3/25 7:00	8.42	285	18.2	5.52	14.6	31.0	37.2	39.3	1.13	387	206.1	17.5	5.43	1821	1792	2814
1/3/25 8:00	8.92	290	15.1	5.08	14.3	24.5	36.1	39.3	1.14	387	218.2	17.5	5.45	1929	1823	2813
1/3/25 9:00	8.89	290	15.2	5.15	14.2	24.8	32.6	39.3	1.15	387	200.0	17.5	5.38	1763	1857	2813
1/3/25 10:00	8.88	290	14.4	5.19	14.2	23.5	26.8	39.3	1.09	388	218.7	17.4	5.43	1904	1862	2813
1/3/25 11:00	8.90	288	13.0	5.01	14.4	21.1	24.3	39.3	1.12	388	203.4	17.5	5.35	1812	1860	2813
1/3/25 12:00	8.86	287	15.6	6.43	14.4	28.9	23.1	39.3	1.20	388	203.5	17.6	5.23	1831	1846	2813
1/3/25 13:00	8.76	283	13.3	5.05	14.6	21.6	24.5	39.3	1.24	386	213.5	17.6	5.12	1896	1851	2812
1/3/25 14:00	8.42	277	14.6	5.07	14.6	23.8	23.9	39.3	1.12	385	200.6	17.5	5.26	1767	1830	2812
1/3/25 15:00	8.28	276	17.1	5.08	14.5	28.0	24.8	39.3	1.20	384	195.5	17.6	5.34	1776	1803	2812
1/3/25 16:00	8.27	274	20.1	4.81	14.8	32.2	24.5	39.3	1.20	384	205.8	17.4	5.63	1825	1786	2812
1/3/25 17:00	8.26	275	19.1	4.82	14.8	30.7	28.0	39.3	1.09	385	205.4	17.6	5.26	1849	1794	2811
1/3/25 18:00	8.32	275	20.0	6.34	14.7	36.5	30.3	39.3	1.17	382	203.0	17.7	5.07	1881	1802	2811
1/3/25 19:00	8.31	278	17.7	5.17	14.9	29.3	33.1	39.3	1.13	380	182.8	17.5	5.38	1650	1774	2811
1/3/25 20:00	8.62	282	16.6	5.20	14.5	27.4	32.2	39.3	1.18	383	249.5	17.5	5.60	2217	1778	2811
1/3/25 21:00	8.59	277	18.5	5.08	14.5	30.2	31.1	39.3	1.15	382	177.3	17.6	5.10	1627	1807	2811
1/3/25 22:00	8.43	275	18.3	5.17	14.7	30.2	29.0	39.3	1.17	384	198.5	17.5	5.26	1749	1849	2810
1/3/25 23:00	8.39	279	18.5	5.23	14.8	30.7	29.3	39.3	1.13	385	192.9	17.4	5.33	1665	1819	2810
1/4/25 0:00	8.59	284	19.3	6.80	14.6	36.7	30.4	39.3	1.12	386	252.9	17.5	5.32	2206	1809	2810
1/4/25 1:00	8.79	283	17.3	5.11	14.8	28.4	32.6	39.3	1.15	383	189.3	17.5	5.39	1683	1790	2810
1/4/25 2:00	8.63	281	19.4	4.94	14.8	31.4	32.0	39.3	1.19	382	187.4	17.5	5.35	1675	1785	2809
1/4/25 3:00	8.54	276	18.9	4.85	14.8	30.5	32.2	39.2	1.16	387	211.5	17.5	5.41	1889	1763	2809
1/4/25 4:00	8.28	273	19.1	4.83	14.9	30.7	30.1	39.2	1.13	385	209.7	17.5	5.34	1829	1775	2809
1/4/25 5:00	8.24	272	23.1	4.75	15.0	37.0	30.9	39.2	1.14	387	209.1	17.4	5.52	1837	1804	2809
1/4/25 6:00	8.22	273	24.3	6.14	14.9	44.0	32.8	39.2	1.13	388	212.2	17.4	5.42	1811	1834	2808
1/4/25 7:00	8.31	272	19.9	4.73	14.9	31.9	37.3	39.2	1.19	387	221.3	17.5	5.28	1954	1876	2808
1/4/25 8:00	8.29	274	17.5	4.53	14.9	27.5	37.7	39.2	1.18	384	217.9	17.5	4.98	1832	1899	2808
1/4/25 9:00	8.40	275	17.1	4.53	14.9	26.9	34.5	39.2	1.11	383	217.5	17.5	4.91	1869	1911	2808
1/4/25 10:00	8.36	275	16.8	4.54	14.9	26.5	28.8	39.2	1.17	382	198.7	17.5	4.87	1707	1856	2808
1/4/25 11:00	8.39	276	17.6	4.55	14.9	27.7	27.0	39.2	1.17	380	201.2	17.6	4.71	1719	1808	2807
1/4/25 12:00	8.39	279	19.7	6.12	14.8	35.4	27.0	39.2	1.20	375	181.5	17.6	4.39	1530	1722	2807
1/4/25 13:00	8.54	278	17.1	4.77	14.9	27.4	29.9	39.2	1.17	378	198.2	17.5	4.62	1656	1691	2807
1/4/25 14:00	8.46	277	17.3	4.76	14.9	27.7	30.2	39.2	1.10	378	208.9	17.5	4.71	1768	1677	2807
1/4/25 15:00	8.49	280	16.6	4.78	14.8	26.7	30.2	39.2	1.09	379	201.4	17.5	4.84	1717	1733	2806
1/4/25 16:00	8.72	284	16.4	4.79	14.8	26.3	27.3	39.2	1.13	380	251.6	17.5	5.00	2135	1782	2806
1/4/25 17:00	8.92	284	16.4	4.76	14.8	26.3	26.9	39.2	1.16	382	202.4	17.5	5.06	1718	1798	2806
1/4/25 18:00	8.89	285	18.5	6.20	14.7	33.4	26.4	39.2	1.12	381	187.7	17.5	4.91	1597	1815	2806
1/4/25 19:00	8.91	284	15.8	4.79	14.8	25.3	28.7	39.2	1.17	381	215.8	17.5	5.01	1828	1781	2806

Stack CEMS Data

	North Stack					North Stack SO2			South Stack					South Stack SO2		
						1Hr	3Hr	365Day						1 Hr	3Hr	365Day
	Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected			Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected		
Timestamp	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv
1/4/25 20:00	8.81	281	17.3	4.79	14.8	27.7	28.4	39.2	1.17	384	204.5	17.4	5.24	1703	1796	2805
1/4/25 21:00	8.74	285	16.9	5.04	14.8	27.6	28.8	39.2	1.12	383	193.1	17.5	4.94	1644	1761	2805
1/4/25 22:00	9.02	284	16.8	5.04	14.6	27.3	26.9	39.2	1.18	383	224.9	17.5	5.06	1907	1785	2805
1/4/25 23:00	8.96	284	17.2	4.87	14.7	27.7	27.6	39.2	1.16	384	229.7	17.4	5.12	1927	1808	2805
1/5/25 0:00	8.87	283	21.0	6.17	14.8	37.6	27.6	39.2	1.15	383	215.3	17.5	4.85	1816	1838	2804
1/5/25 1:00	8.82	282	17.9	4.85	14.8	28.9	30.9	39.2	1.20	384	222.6	17.4	5.00	1859	1874	2804
1/5/25 2:00	8.81	281	18.4	4.76	14.9	29.5	31.4	39.2	1.17	385	223.5	17.4	5.12	1862	1875	2804
1/5/25 3:00	8.75	281	18.5	4.76	14.9	29.7	32.0	39.2	1.13	386	238.4	17.3	5.23	1948	1884	2804
1/5/25 4:00	8.76	281	18.2	4.76	14.8	29.2	29.3	39.2	1.15	387	239.0	17.4	5.12	1977	1913	2804
1/5/25 5:00	8.81	281	18.8	4.74	14.8	30.1	29.5	39.2	1.14	388	257.5	17.3	5.25	2082	1959	2803
1/5/25 6:00	8.75	282	21.0	6.15	14.8	37.8	29.7	39.2	1.17	387	247.8	17.3	5.26	2042	2002	2803
1/5/25 7:00	8.81	281	17.5	5.04	14.9	28.7	32.4	39.2	1.17	389	259.9	17.4	5.31	2154	2008	2803
1/5/25 8:00	8.84	284	17.1	4.60	15.0	27.0	32.2	39.2	1.16	389	308.4	17.2	5.51	2459	2091	2803
1/5/25 9:00	8.94	282	16.8	4.62	15.0	26.7	31.2	39.2	1.16	386	236.1	17.5	5.29	2034	2220	2803
1/5/25 10:00	8.79	286	15.9	4.67	15.0	25.3	27.5	39.2	1.17	387	241.3	17.4	5.29	2019	2216	2803
1/5/25 11:00	8.92	288	15.9	4.69	15.0	25.4	26.3	39.2	1.12	384	211.6	17.4	5.18	1800	2073	2803
1/5/25 12:00	8.96	289	18.6	6.15	15.0	33.8	25.8	39.2	1.17	386	228.3	17.4	5.26	1903	1886	2802
1/5/25 13:00	8.87	286	16.9	4.80	15.1	27.2	28.2	39.2	1.15	387	247.6	17.4	5.42	2095	1880	2802
1/5/25 14:00	8.74	286	16.3	4.84	15.1	26.3	28.8	39.2	1.14	389	235.0	17.3	5.48	1969	1940	2802
1/5/25 15:00	8.80	286	17.6	4.84	15.1	28.4	29.1	39.2	1.16	390	232.1	17.3	5.38	1932	1995	2802
1/5/25 16:00	8.78	286	17.5	4.83	15.1	28.2	27.3	39.2	1.20	388	229.4	17.4	5.42	1964	1981	2802
1/5/25 17:00	8.79	286	17.6	5.00	15.0	28.8	27.7	39.2	1.16	390	237.9	17.3	5.52	1979	1945	2801
1/5/25 18:00	8.88	285	20.8	6.24	14.9	37.6	28.5	39.2	1.15	390	228.8	17.3	5.56	1936	1913	2801
1/5/25 19:00	8.85	287	18.0	5.67	15.0	31.0	31.6	39.2	1.13	392	239.8	17.3	5.79	1991	1933	2801
1/5/25 20:00	9.01	283	19.5	5.12	14.9	32.2	32.5	39.2	1.13	391	245.6	17.4	5.64	2131	2006	2801
1/5/25 21:00	8.76	284	18.8	5.12	14.9	31.0	33.6	39.2	1.17	390	242.0	17.4	5.55	2070	2063	2801
1/5/25 22:00	8.88	283	18.9	5.06	14.9	31.0	31.4	39.2	1.16	393	254.3	17.3	5.61	2146	2118	2801
1/5/25 23:00	8.74	283	17.0	5.06	15.0	27.9	31.4	39.2	1.17	393	258.0	17.4	5.57	2189	2160	2800
1/6/25 0:00	8.70	283	20.4	6.18	15.0	37.0	30.0	39.2	1.13	394	283.3	17.3	5.63	2408	2189	2800
1/6/25 1:00	8.67	283	20.2	5.46	15.2	34.4	31.9	39.2	1.18	395	270.3	17.2	5.91	2254	2197	2800
1/6/25 2:00	8.65	283	19.7	5.02	15.2	32.4	33.1	39.2	1.22	397	305.8	17.2	6.24	2575	2213	2800
1/6/25 3:00	8.63	283	14.7	5.19	15.0	24.4	34.6	39.2	1.24	397	281.8	17.3	6.24	2453	2333	2800
1/6/25 4:00	8.62	282	16.7	5.26	14.9	27.7	30.4	39.1	1.20	395	325.7	17.3	6.43	2931	2643	2800
1/6/25 5:00	8.63	281	19.2	5.05	15.0	31.5	28.2	39.1	1.25	393	324.1	17.3	6.44	2954	2911	2800
1/6/25 6:00	8.57	280	20.1	6.11	14.8	36.0	27.9	39.1	1.30	392	289.8	17.3	6.14	2549	2987	2800
1/6/25 7:00	8.54	279	20.3	5.41	14.9	34.3	31.7	39.1	1.30	390	265.8	17.3	5.88	2303	2761	2800
1/6/25 8:00	8.51	279	17.8	4.80	15.0	28.6	33.9	39.1	1.27	390	242.7	17.4	5.65	2085	2472	2800
1/6/25 9:00	8.55	279	17.3	4.89	14.9	28.1	33.0	39.1	1.32	386	230.3	17.4	5.59	1999	2230	2800
1/6/25 10:00	8.58	278	17.2	4.87	14.9	27.8	30.3	39.1	1.30	385	228.9	17.4	5.47	1958	2078	2800
1/6/25 11:00	8.55	279	19.2	4.89	14.9	31.0	28.1	39.1	1.25	385	220.9	17.4	5.48	1893	1991	2799
1/6/25 12:00	8.59	278	20.3	6.46	14.9	37.6	28.9	39.1	1.22	385	228.9	17.4	5.55	1980	1981	2799
1/6/25 13:00	8.55	279	20.2	5.04	14.9	33.1	32.1	39.1	1.30	386	250.6	17.4	5.60	2162	1987	2799
1/6/25 14:00	8.56	279	19.2	4.84	15.0	31.0	33.9	39.1	1.23	386	248.2	17.4	5.62	2117	2008	2799
1/6/25 15:00	8.55	277	18.8	4.88	14.9	30.4	33.9	39.1	1.30	385	238.8	17.4	5.48	2034	2017	2799
1/6/25 16:00	8.51	277	21.2	4.83	14.9	34.1	31.5	39.1	1.27	386	233.3	17.4	5.44	1956	2020	2799
1/6/25 17:00	8.56	277	19.2	4.79	15.0	30.9	31.8	39.1	1.26	386	224.1	17.4	5.51	1928	2022	2798
1/6/25 18:00	8.54	278	19.4	6.14	15.0	34.9	31.8	39.1	1.30	385	243.9	17.3	5.63	2045	2013	2798
1/6/25 19:00	8.64	278	20.7	5.01	15.2	34.0	33.3	39.1	1.30	387	245.4	17.4	5.64	2096	2083	2798
1/6/25 20:00	8.54	279	22.1	4.78	15.2	35.6	33.3	39.1	1.19	391	346.6	17.1	5.97	2778	2113	2798
1/6/25 21:00	8.61	280	21.4	4.78	15.2	34.5	34.8	39.1	1.22	389	239.1	17.4	5.46	2069	2221	2798
1/6/25 22:00	8.62	281	20.8	4.78	15.1	33.5	34.7	39.1	1.17	390	242.7	17.3	5.69	2070	2166	2798
1/6/25 23:00	8.64	281	20.8	4.81	15.1	33.6	34.5	39.1	1.28	388	217.8	17.4	5.53	1915	2151	2797
1/7/25 0:00	8.70	283	21.1	6.34	15.1	38.8	33.8	39.1	1.10	391	252.1	17.4	5.67	2160	2121	2797
1/7/25 1:00	8.92	283	21.3	5.42	14.9	36.0	35.3	39.1	1.16	389	240.7	17.3	5.56	2036	2120	2797
1/7/25 2:00	8.90	283	19.6	5.20	14.8	32.4	36.1	39.1	1.17	391	243.8	17.3	5.61	2047	2114	2797
1/7/25 3:00	8.97	283	19.9	5.17	14.8	32.9	35.7	39.1	1.16	390	262.0	17.3	5.58	2215	2066	2797
1/7/25 4:00	8.96	282	19.1	5.16	14.8	31.5	33.8	39.1	1.13	392	249.5	17.4	5.43	2102	2139	2797
1/7/25 5:00	8.88	282	16.3	5.23	14.8	27.0	32.3	39.1	1.20	391	251.7	17.3	5.65	2113	2167	2797
1/7/25 6:00	8.89	281	20.7	6.43	14.8	38.1	30.5	39.1	1.12	388	290.0	17.4	5.59	2545	2669	2797
1/7/25 7:00	8.91	281	18.2	5.47	15.0	31.5	32.2	39.1	1.14	390	245.0	17.4	5.53	2124	2647	2797
1/7/25 8:00	8.85	280	15.2	4.61	15.1	24.2	32.2	39.1	1.18	389	224.7	17.4	5.58	1919	2614	2796
1/7/25 9:00	8.79	281	15.9	4.63	15.1	25.3	31.3	39.1	1.23	389	229.1	17.4	5.59	1993	2066	2796
1/7/25 10:00	8.80	281	13.6	4.70	15.1	21.8	27.0	39.1	1.19	391	230.2	17.4	5.52	1980	1975	2796
1/7/25 11:00	8.80	281	11.3	4.83	15.0	18.2	23.8	39.1	1.22	389	231.6	17.4	5.58	1990	1957	2796
1/7/25 12:00	8.80	282	16.3	5.78	15.1	28.4	21.8	39.1	1.17	389	230.0	17.4	5.56	2004	1998	2796
1/7/25 13:00	8.75	283	11.3	5.53	14.9	19.2	22.8	39.1	1.33	391	252.6	17.4	5.56	2183	2057	2796
1/7/25 14:00	8.85	284	11.0	4.97	14.9	17.9	22.0	39.1	1.22	386	244.2	17.5	5.20	2141	2142	2795
1/7/25 15:00	8.85	283	11.6	4.96	14.9	18.9	21.8	39.1	1.18	384	224.7	17.5	5.31	1943	2130	2795
1/7/25 16:00	8.84	281	12.0	4.90	14.9	19.5	18.7	39.1	1.23	385	210.7	17.5	5.25	1821	2050	2795
1/7/25 17:00	8.77	281	10.7	4.98	14.9	17.5	18.8	39.1	1.19	386	220.4	17.5	5.43	1933	1929	2795
1/7/25 18:00	8.81	281	14.2	6.08	14.8	25.4	18.6	39.1	1.18	387	218.2	17.5	5.38	1906	1872	2795
1/7/25 19:00	8.96	282	13.1	5.99	14.7	23.0	20.8	39.1	1.20	387	214.0	17.5	5.31	1874	1869	2795
1/7/25 20:00	8.97	280	13.6	5.08	14.8	22.3	22.0	39.1	1.16	387	201.7	17.5	5.25	1753	1852	2794
1/7/25 21:00	8.87	279	14.0	5.06	14.8	22.9	23.6	39.1	1.17	385	208.6	17.5	5.23	1821	1824	2794
1/7/25 22:00	8.90	279	13.4	4.88	14.9	21.7	22.8	39.1	1.15	384	205.0	17.4	5.04	1717	1800	2794
1/7/25 23:00	8.80	279	14.0	4.86	15.0	22.7	22.3	39.1	1.12	386	220.4	17.4	5.41	1892	1785	2794
1/8/25 0:00	8.81	278	13.7	5.87	14.9	24.0	22.4	39.0	1.15	386	195.4	17.5	5.12	1686	1796	2793
1/8/25 1:00	8.79	278	15.6	5.54	14.9	26.5	22.8	39.0	1.18	384	203.3	17.5	5.07	1769	1786	2793
1/8/25 2:00	8.77	278	14.5	4.85	14.8	23.3	24.4	39.0	1.21	386	227.0	17.4	5.45	1926	1783	2793
1/8/25 3:00	8.80	278	14.7	4.85	14.8	23.7	24.6	39.0	1.20	385	206.1	17.4	5.49	1777	1785	2793
1/8/25 4:00	8.78	279	14.0	4.89	14.8	22.6	24.5	39.0	1.25	385	211.2	17.5	5.48	1856	1804	2793
1/8/25 5:00	8.90	278	14.3	4.88	14.8	23.0	23.2	39.0	1.23	385	215.8	17.4	5.47	1879	1823	2792
1/8/25 6:00	8.84	277	14.5	5.75	14.9	25.1	23.1	39.0	1.19	384	210.9	17.4	5.32	1812	1827	2792
1/8/25 7:00	8.76	275	12.6	5.27	14.9	21.1	23.6	39.0	1.28	385	215.8	17.4	5.39	1842	1824	2792
1/8/25 8:00	8.55	272	14.5	4.79	14.9	23.3	23.1	39.0	1.28	383	223.6	17.4	5.35	1925	1847	2792
1/8/25 9:00	8.46	274	18.0	4.66	15.0	28.7	23.2	39.0	1.20	383	257.4	17.5	5.41	2264	1935	2792
1/8/25 10:00	8.35	277	15.5	4.68	15.0	24.7	24.4	39.0	1.29	382	246.2	17.4	5.31	2120	2016	2791
1/8/25 11:00	8.46	280	12.6	5.55	14.8	21.6	25.6	39.0	1.19	384	222.6	17.4	5.27	1891	2080	2791
1/8/25 12:00	8.47	281	13.5	5.49	14.9	22.9	25.0	39.0	1.22	384	233.9	17.4	5.32	1981	1982	2791
1/8/25 13:00	8.39	280	15.9	5.41	14.9	26.7	23.0	39.0	1.19	386	208.8	17.5	5.32	1814	1938	2791
1/8/25 14:00	8.32	280	18.7	5.26	14.9	31.2	23.7	39.0	1.17	386	223.8	17.4	5.25	1917	1879	2791
1/8/25 15:00	8.37	280	17.5	4.66	14.9	27.8	27.0	39.0	1.17	387	210.0	17.5	5.15	1819	1907	2790

Stack CEMS Data

	North Stack					North Stack SO2			South Stack					South Stack SO2		
						1Hr	3Hr	365Day						1 Hr	3Hr	365Day
	Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected			Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected		
Timestamp	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv
1/8/25 16:00	8.29	280	16.3	4.51	14.9	25.7	28.6	39.0	1.17	388	228.3	17.4	5.21	1949	1892	2790
1/8/25 17:00	8.39	280	15.7	4.47	14.9	24.6	28.2	39.0	1.18	387	232.2	17.5	5.16	2011	1885	2790
1/8/25 18:00	8.44	284	15.7	5.04	15.0	25.7	26.0	39.0	1.20	386	217.3	17.4	5.31	1850	1893	2790
1/8/25 19:00	8.69	283	15.7	5.22	15.1	26.2	25.3	39.0	1.20	387	215.8	17.4	5.22	1846	1895	2790
1/8/25 20:00	8.64	284	12.1	5.15	15.2	20.1	25.5	39.0	1.16	386	268.6	17.3	5.09	2174	1891	2790
1/8/25 21:00	8.73	288	10.5	4.98	15.0	17.1	24.0	39.0	1.17	385	303.6	17.3	5.22	2488	1939	2789
1/8/25 22:00	9.01	280	10.2	4.64	15.2	16.3	21.1	39.0	1.17	384	198.5	17.5	4.99	1686	1965	2789
1/8/25 23:00	8.64	277	10.1	4.56	15.2	16.0	17.8	39.0	1.16	384	244.3	17.4	5.07	2031	1943	2789
1/9/25 0:00	8.59	272	10.2	5.02	15.3	16.8	16.5	39.0	1.12	381	214.1	17.5	4.83	1815	1859	2789
1/9/25 1:00	8.43	273	10.2	5.19	15.3	17.0	16.3	39.0	1.19	383	254.2	17.5	4.99	2157	1885	2789
1/9/25 2:00	8.42	272	10.7	4.74	15.3	17.3	16.6	39.0	1.17	383	235.4	17.4	5.23	1966	1884	2788
1/9/25 3:00	8.31	275	10.9	4.35	15.3	17.1	17.1	39.0	1.15	384	225.2	17.4	5.14	1881	1919	2788
1/9/25 4:00	8.40	277	11.6	4.38	15.3	18.2	17.1	38.9	1.26	385	218.0	17.3	5.39	1809	1852	2788
1/9/25 5:00	8.53	278	12.8	4.38	15.3	20.0	17.5	38.9	1.16	387	250.9	17.3	5.58	2125	1955	2788
1/9/25 6:00	8.51	278	13.7	4.92	15.3	22.4	18.4	38.9	1.30	386	320.8	17.3	5.57	2698	2000	2788
1/9/25 7:00	8.47	278	15.3	4.70	15.3	24.5	20.2	38.9	1.25	385	227.0	17.4	5.28	1915	2111	2788
1/9/25 8:00	8.51	277	15.3	4.31	15.4	23.9	22.3	38.9	1.22	386	279.5	17.3	5.66	2384	2078	2787
1/9/25 9:00	8.43	278	14.0	4.22	15.4	21.7	23.6	38.9	1.15	387	274.9	17.4	5.34	2295	2131	2787
1/9/25 10:00	8.33	275	14.8	4.15	15.5	22.8	23.4	38.9	1.13	387	240.6	17.4	5.31	2043	2109	2787
1/9/25 11:00	8.16	276	15.4	4.17	15.5	23.7	22.8	38.9	1.16	388	247.3	17.4	5.36	2096	2169	2787
1/9/25 12:00	8.20	277	15.4	4.93	15.5	25.3	22.8	38.9	1.20	389	237.0	17.4	5.39	2000	2141	2787
1/9/25 13:00	8.15	279	16.0	5.07	15.4	26.5	23.9	38.9	1.14	390	249.0	17.3	5.50	2049	2141	2787
1/9/25 14:00	8.34	283	15.2	4.47	15.4	23.9	25.2	38.9	1.15	389	234.7	17.5	5.20	2050	2140	2787
1/9/25 15:00	8.50	281	15.4	4.33	15.4	24.0	25.2	38.9	1.14	391	228.3	17.4	5.33	1966	2106	2786
1/9/25 16:00	8.31	281	15.8	4.34	15.4	24.8	24.8	38.9	1.17	393	280.2	17.3	5.55	2343	2106	2786
1/9/25 17:00	8.35	278	16.5	4.32	15.5	25.7	24.3	38.9	1.15	389	220.6	17.5	5.19	1907	2087	2786
1/9/25 18:00	8.23	275	20.4	4.89	15.5	33.3	24.9	38.9	1.14	389	237.8	17.4	5.18	2017	2076	2786
1/9/25 19:00	8.05	273	19.5	5.02	15.5	32.2	28.0	38.9	1.11	388	222.2	17.5	5.09	1885	2032	2786
1/9/25 20:00	8.06	274	19.7	4.61	15.6	31.5	30.4	38.9	1.14	386	233.4	17.4	5.20	1962	1964	2786
1/9/25 21:00	8.29	277	20.3	4.33	15.6	31.8	32.4	38.9	1.20	385	217.7	17.5	5.01	1839	1948	2785
1/9/25 22:00	8.40	275	20.4	4.23	15.6	31.8	31.9	38.9	1.15	383	212.6	17.5	5.01	1797	1958	2785
1/9/25 23:00	8.21	274	21.2	4.23	15.6	32.9	31.7	38.9	1.19	383	224.0	17.4	5.12	1838	1916	2785
1/10/25 0:00	8.22	278	24.6	5.01	15.4	40.5	32.2	38.9	1.15	386	288.2	17.4	5.27	2406	1965	2785
1/10/25 1:00	8.47	277	23.2	5.10	15.5	38.6	35.1	38.9	1.09	385	213.4	17.4	5.27	1792	1971	2785
1/10/25 2:00	8.41	277	22.6	4.41	15.6	35.6	37.4	38.9	1.14	386	226.6	17.4	5.41	1897	1987	2784
1/10/25 3:00	8.40	273	22.5	4.17	15.6	34.8	38.3	38.9	1.19	385	256.2	17.4	5.34	2166	1943	2784
1/10/25 4:00	8.03	270	23.0	4.18	15.7	35.7	36.3	38.9	1.22	383	251.7	17.4	5.11	2090	1921	2784
1/10/25 5:00	8.02	270	23.5	4.15	15.7	36.4	35.4	38.9	1.13	383	233.9	17.4	5.15	1981	1980	2784
1/10/25 6:00	7.97	270	26.6	4.82	15.6	43.5	35.6	38.9	1.13	384	212.5	17.4	5.17	1753	1959	2784
1/10/25 7:00	7.96	271	19.7	4.44	15.6	31.6	38.5	38.9	1.13	386	222.5	17.3	5.52	1858	1940	2784
1/10/25 8:00	8.01	269	14.9	3.99	15.7	22.9	37.1	38.9	1.18	388	231.2	17.3	5.46	1875	1886	2783
1/10/25 9:00	7.70	269	15.5	4.01	15.7	23.8	32.6	38.9	1.14	389	241.7	17.4	5.43	2036	1974	2783
1/10/25 10:00	7.82	270	14.2	4.12	15.7	22.0	26.1	38.9	1.15	393	274.2	17.3	5.66	2312	2117	2783
1/10/25 11:00	7.69	273	12.8	4.34	15.5	20.0	22.9	38.9	1.11	393	261.7	17.3	5.65	2224	2272	2783
1/10/25 12:00	7.63	277	17.1	5.45	15.2	29.3	21.9	38.9	1.14	393	393.6	17.3	5.80	3349	2739	2783
1/10/25 13:00	7.93	263	1.9	7.57	11.7	3.6	23.8	38.9	1.13	394	311.0	17.3	5.89	2681	2896	2783
1/10/25 14:00	9.29	272	0.6	4.16	15.5	1.0	17.6	38.9	0.99	254	951.3	18.1	4.75	10493	4534	2784
1/10/25 15:00	7.86	266	1.7	3.34	16.3	2.5	11.3	38.9	1.13	335	665.2	17.6	5.16	6103	5553	2785
1/10/25 16:00	7.15	267	2.5	3.84	16.0	3.8	2.3	38.9	1.07	345	601.5	17.9	4.85	5937	6512	2786
1/10/25 17:00	7.73	268	0.9	3.41	16.3	1.3	2.4	38.8	1.09	352	169.7	17.7	5.19	1647	5532	2786
1/10/25 18:00	7.52	265	0.8	3.74	16.2	1.3	2.5	38.8	1.12	353	188.1	17.7	5.21	1802	3946	2786
1/10/25 19:00	7.43	266	11.3	4.96	15.2	18.8	2.1	38.8	1.14	355	179.8	17.7	5.22	1739	2646	2786
1/10/25 20:00	7.82	272	42.1	5.75	13.9	71.6	7.1	38.8	1.13	353	155.4	17.7	5.10	1492	1760	2785
1/10/25 21:00	8.42	275	50.5	5.56	13.5	84.2	30.5	38.8	1.08	354	182.6	17.7	5.14	1761	1725	2785
1/10/25 22:00	8.47	277	52.7	5.79	13.2	89.1	58.2	38.8	1.07	352	179.0	17.7	5.00	1695	1693	2785
1/10/25 23:00	8.53	283	74.6	5.86	12.6	125.7	81.6	38.9	1.09	355	187.4	17.7	5.28	1760	1758	2785
1/11/25 0:00	8.71	284	98.2	6.36	12.0	170.1	99.6	38.9	1.08	355	188.7	17.7	5.32	1794	1750	2784
1/11/25 1:00	8.74	284	97.1	6.36	12.2	168.8	128.3	38.9	1.08	356	168.3	17.7	5.22	1602	1752	2784
1/11/25 2:00	8.64	280	98.3	6.27	12.2	169.6	154.9	38.9	1.07	356	178.7	17.7	5.28	1685	1687	2784
1/11/25 3:00	8.38	278	92.7	5.89	12.3	155.4	169.5	39.0	1.09	356	205.4	17.7	5.25	1930	1672	2784
1/11/25 4:00	8.31	276	89.1	5.78	12.4	148.3	164.6	39.0	1.09	358	185.9	17.6	5.32	1740	1713	2783
1/11/25 5:00	8.16	278	81.7	5.81	12.5	136.6	157.8	39.0	1.14	362	210.6	17.5	5.64	1923	1843	2783
1/11/25 6:00	8.31	278	84.0	6.10	12.6	143.9	146.8	39.0	1.07	363	205.8	17.5	5.56	1878	1925	2783
1/11/25 7:00	8.32	277	83.1	5.58	12.7	137.0	142.9	39.0	1.10	363	204.9	17.6	5.64	1919	1970	2783
1/11/25 8:00	8.27	278	84.6	5.23	12.7	135.6	139.2	39.1	1.15	362	201.6	17.5	5.29	1810	1931	2783
1/11/25 9:00	8.29	279	82.9	5.43	12.5	134.5	138.8	39.1	1.09	363	214.7	17.5	5.27	1923	1906	2783
1/11/25 10:00	8.41	279	84.4	5.44	12.5	137.0	135.7	39.1	1.06	363	203.4	17.6	5.20	1813	1870	2782
1/11/25 11:00	8.26	283	81.2	5.55	12.6	133.2	135.7	39.1	1.09	363	202.4	17.5	5.24	1785	1832	2782
1/11/25 12:00	8.62	283	85.6	6.46	12.5	151.0	134.9	39.1	1.12	364	203.3	17.6	5.18	1879	1845	2782
1/11/25 13:00	8.57	281	84.4	6.24	12.6	146.5	140.4	39.2	1.10	365	209.3	17.6	5.21	1904	1861	2782
1/11/25 14:00	8.48	283	81.2	5.79	12.7	135.9	143.6	39.2	1.11	364	197.1	17.6	5.09	1787	1871	2782
1/11/25 15:00	8.82	283	80.0	5.85	12.6	134.5	144.5	39.2	1.07	365	200.6	17.7	5.06	1873	1881	2781
1/11/25 16:00	8.79	283	79.1	5.89	12.6	133.2	139.0	39.2	1.10	365	202.5	17.6	5.24	1841	1853	2781
1/11/25 17:00	8.88	283	78.2	5.89	12.6	131.8	134.5	39.3	1.07	364	195.0	17.6	5.23	1785	1854	2781
1/11/25 18:00	8.86	278	85.8	6.44	12.6	151.3	133.2	39.3	1.10	363	199.8	17.7	5.13	1871	1824	2781
1/11/25 19:00	8.45	274	86.3	6.48	12.7	153.0	138.8	39.3	1.15	365	215.3	17.6	5.27	1946	1898	2781
1/11/25 20:00	8.31	272	87.4	5.68	12.8	145.3	145.4	39.3	1.12	365	226.2	17.6	5.30	2059	1915	2780
1/11/25 21:00	8.25	273	86.3	5.66	13.0	143.8	149.8	39.3	1.07	365	202.5	17.6	5.25	1817	1943	2780
1/11/25 22:00	8.24	274	87.0	5.65	12.7	144.2	147.3	39.4	1.11	365	210.6	17.5	5.37	1885	1884	2780
1/11/25 23:00	8.16	276	87.9	5.62	12.7	145.3	144.4	39.4	1.06	366	201.0	17.5	5.42	1810	1863	2780
1/12/25 0:00	8.12	279	87.6	6.43	12.7	154.7	144.4	39.4	1.13	368	217.1	17.5	5.48	1960	1841	2780
1/12/25 1:00	8.34	280	60.6	6.01	13.9	106.0	148.1	39.4	1.13	366	217.6	17.6	5.20	1988	1925	2779
1/12/25 2:00	8.11	275	33.1	4.61	15.2	52.7	135.3	39.5	1.14	363	208.3	17.6	5.15	1875	1948	2779
1/12/25 3:00	7.57	275	32.1	4.44	15.5	50.6	104.4	39.5	1.07	366	206.5	17.5	5.33	1815	1974	2779
1/12/25 4:00	7.53	274	29.8	4.34	15.6	46.8	69.8	39.5	1.14	368	210.8	17.5	5.40	1902	1928	2779
1/12/25 5:00	7.37	274	28.9	4.35	15.7	45.4	50.0	39.5	1.06	368	215.5	17.6	5.35	1948	1933	2779
1/12/25 6:00	7.42	274	29.4	5.08	15.7	49.0	47.6	39.5	1.08	368	235.0	17.5	5.33	2117	1942	2779
1/12/25 7:00	7.40	275	24.9	4.51	15.5	39.8	47.0	39.5	1.14	370	228.3	17.5	5.54	2030	1966	2778
1/12/25 8:00	7.45	275	21.4	4.04	15.6	32.8	44.7	39.5	1.09	369	222.4	17.6	5.42	2035	1995	2778
1/12/25 9:00	7.50	276	21.1	4.03	15.6	32.4	40.5	39.5	1.08	370	228.5	17.5	5.57	2049	2028	2778
1/12/25 10:00	7.35	274	19.3	4.02	15.5	29.6	35.0	39.5	1.11	370	217.3	17.5	5.70	1960	2004	2778
1/12/25 11:00	7.29	278	18.5	4.14	15.5	28.6	31.6	39.5	1.06	371	252.0	17.4	5.80	2249	2006	2778

Stack CEMS Data

	North Stack					North Stack SO2			South Stack					South Stack SO2		
						1Hr	3Hr	365Day						1 Hr	3Hr	365Day
	Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected			Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected		
Timestamp	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv
1/12/25 12:00	7.59	280	18.5	5.51	15.5	31.8	30.2	39.5	1.08	371	214.3	17.6	5.50	1976	2032	2778
1/12/25 13:00	7.65	282	17.1	4.50	15.5	27.2	30.0	39.5	1.07	371	228.3	17.5	5.71	2082	2083	2777
1/12/25 14:00	7.77	280	16.8	4.29	15.5	26.2	29.2	39.5	1.09	370	218.3	17.6	5.76	2050	2093	2777
1/12/25 15:00	7.59	275	17.6	4.28	15.5	27.4	28.4	39.4	1.10	367	203.0	17.6	5.58	1909	2052	2777
1/12/25 16:00	7.56	272	17.7	4.26	15.5	27.5	26.9	39.4	1.11	366	201.1	17.6	5.50	1881	2010	2777
1/12/25 17:00	7.41	272	18.1	4.27	15.5	28.2	27.1	39.4	1.10	366	221.1	17.6	5.60	2046	2009	2777
1/12/25 18:00	7.47	272	17.8	5.51	15.6	30.8	27.7	39.4	1.12	365	204.8	17.5	5.55	1879	1994	2777
1/12/25 19:00	7.44	273	16.6	4.47	15.5	26.2	28.9	39.4	1.09	366	200.6	17.6	5.63	1876	1964	2776
1/12/25 20:00	7.49	274	17.2	4.34	15.5	26.9	28.4	39.4	1.09	364	194.9	17.6	5.55	1872	1900	2776
1/12/25 21:00	7.59	276	20.3	4.35	15.7	31.9	28.0	39.4	1.12	361	184.8	17.7	5.45	1770	1850	2776
1/12/25 22:00	7.75	274	21.0	4.33	15.5	32.9	28.4	39.4	1.12	360	179.2	17.6	5.51	1698	1799	2776
1/12/25 23:00	7.67	273	20.7	4.33	15.5	32.3	30.6	39.4	1.09	358	189.8	17.7	5.41	1816	1767	2776
1/13/25 0:00	7.65	270	21.4	5.54	15.5	36.9	32.4	39.4	1.06	360	192.3	17.6	5.46	1811	1757	2775
1/13/25 1:00	7.47	273	21.1	4.52	15.5	33.5	34.0	39.4	1.11	363	193.0	17.6	5.45	1782	1784	2775
1/13/25 2:00	7.70	275	20.5	4.36	15.5	32.2	34.2	39.4	1.11	364	203.1	17.6	5.42	1876	1821	2775
1/13/25 3:00	7.68	275	20.1	4.37	15.5	31.5	34.2	39.4	1.07	366	204.4	17.5	5.54	1861	1846	2775
1/13/25 4:00	7.64	273	19.9	4.32	15.6	31.1	32.4	39.4	1.08	368	204.4	17.6	5.59	1886	1857	2775
1/13/25 5:00	7.45	271	19.6	4.29	15.6	30.7	31.6	39.4	1.09	368	213.1	17.5	5.69	1937	1874	2774
1/13/25 6:00	7.39	271	20.4	5.49	15.5	35.1	31.1	39.4	1.04	368	191.6	17.6	5.59	1778	1898	2774
1/13/25 7:00	7.42	275	17.8	4.84	15.5	29.5	32.3	39.4	1.12	365	201.1	17.6	5.29	1853	1944	2774
1/13/25 8:00	7.63	276	15.5	4.14	15.5	23.9	31.8	39.4	1.10	362	202.1	17.5	5.37	1808	1922	2774
1/13/25 9:00	7.64	276	15.7	4.16	15.5	24.2	29.5	39.4	1.09	362	195.1	17.6	5.28	1815	1886	2774
1/13/25 10:00	7.65	276	16.4	4.18	15.5	25.4	25.9	39.4	1.12	359	180.8	17.7	4.97	1716	1811	2773
1/13/25 11:00	7.68	276	16.6	4.20	15.4	25.7	24.5	39.4	1.08	355	196.3	17.8	4.79	1847	1767	2773
1/13/25 12:00	7.79	276	16.6	5.61	15.4	28.9	25.1	39.4	1.09	353	152.9	17.8	4.83	1465	1707	2773
1/13/25 13:00	7.79	275	15.9	4.31	15.3	24.8	26.7	39.4	1.04	283	159.8	18.1	4.00	1616	1885	2773
1/13/25 14:00	7.85	274	16.6	4.32	15.3	25.9	26.5	39.4	1.08	332	159.5	17.7	4.68	1432	1805	2773
1/13/25 15:00	7.87	273	16.6	4.34	15.3	25.9	26.5	39.4	1.10	340	174.0	17.7	4.50	1555	1733	2772
1/13/25 16:00	7.93	273	16.4	4.36	15.3	25.7	25.5	39.4	1.09	346	167.8	17.7	4.76	1564	1472	2772
1/13/25 17:00	8.04	273	16.6	4.42	15.2	25.9	25.8	39.4	1.11	350	154.5	17.7	5.00	1443	1487	2772
1/13/25 18:00	8.12	271	17.7	5.91	15.1	31.4	25.8	39.4	1.08	353	204.3	17.6	5.32	1862	1586	2772
1/13/25 19:00	8.01	269	17.7	4.55	15.1	27.9	27.7	39.4	1.09	355	199.5	17.7	5.18	1869	1792	2771
1/13/25 20:00	8.06	272	20.0	4.55	15.0	31.6	28.4	39.4	1.10	357	220.8	17.5	5.41	1969	1975	2771
1/13/25 21:00	8.27	270	20.2	4.51	15.3	31.9	30.3	39.4	1.12	357	222.9	17.6	5.42	2090	2110	2771
1/13/25 22:00	8.18	270	20.9	4.56	15.1	33.1	30.5	39.4	1.13	357	249.0	17.6	5.31	2308	2081	2771
1/13/25 23:00	8.29	275	21.1	4.60	15.1	33.5	32.2	39.4	1.11	352	230.1	17.7	4.84	2132	2114	2771
1/14/25 0:00	8.49	275	21.5	5.95	15.2	38.3	32.9	39.4	1.06	349	246.2	17.8	4.80	2341	2102	2771
1/14/25 1:00	8.57	273	21.8	4.53	15.2	34.4	35.0	39.4	1.14	346	218.1	17.8	4.45	2028	2085	2771
1/14/25 2:00	8.44	270	22.5	4.42	15.2	35.2	35.4	39.4	1.14	349	225.8	17.7	4.84	2060	2036	2770
1/14/25 3:00	8.31	269	22.3	4.38	15.2	34.8	36.0	39.4	1.14	348	224.1	17.8	4.57	2062	2037	2770
1/14/25 4:00	8.22	268	22.3	4.32	15.3	34.7	34.8	39.4	1.13	351	255.4	17.5	5.08	2248	2092	2770
1/14/25 5:00	8.08	269	22.2	4.21	15.4	34.4	34.9	39.4	1.13	355	246.6	17.5	5.41	2186	2160	2770
1/14/25 6:00	7.99	273	22.7	5.62	15.3	39.4	34.7	39.4	1.13	357	263.7	17.5	5.28	2305	2233	2770
1/14/25 7:00	8.08	275	19.5	4.26	15.4	30.3	36.2	39.4	1.10	359	273.7	17.4	5.47	2381	2285	2770
1/14/25 8:00	8.02	276	18.9	4.24	15.4	29.3	34.7	39.4	1.15	361	292.6	17.4	5.47	2518	2341	2770
1/14/25 9:00	8.07	279	18.7	4.27	15.4	29.1	33.0	39.4	1.14	362	284.8	17.4	5.40	2454	2405	2770
1/14/25 10:00	8.16	276	18.6	4.24	15.5	28.9	29.6	39.4	1.20	360	258.5	17.5	5.14	2276	2454	2770
1/14/25 11:00	7.93	277	18.6	4.30	15.4	28.9	29.1	39.4	1.14	358	294.3	17.6	4.95	2612	2477	2770
1/14/25 12:00	8.10	277	19.1	5.27	15.3	32.2	29.0	39.4	1.14	355	262.4	17.6	4.69	2308	2462	2770
1/14/25 13:00	8.10	276	18.5	5.10	15.3	30.7	30.0	39.4	1.16	354	245.2	17.6	4.53	2138	2396	2769
1/14/25 14:00	8.20	277	18.5	4.48	15.3	29.2	30.6	39.4	1.14	352	232.6	17.7	4.45	2051	2304	2769
1/14/25 15:00	8.27	275	18.7	4.55	15.3	29.7	30.7	39.4	1.11	356	267.4	17.4	5.35	2249	2206	2769
1/14/25 16:00	8.25	273	19.3	4.61	15.3	30.8	29.9	39.4	1.16	355	249.0	17.5	5.23	2155	2152	2769
1/14/25 17:00	8.31	270	19.7	4.55	15.3	31.3	29.9	39.4	1.16	355	244.4	17.6	4.87	2146	2123	2769
1/14/25 18:00	8.19	267	20.1	5.29	15.4	33.9	30.6	39.4	1.15	356	240.6	17.6	4.92	2092	2137	2769
1/14/25 19:00	8.10	267	19.9	5.32	15.5	33.6	32.0	39.4	1.17	355	252.2	17.6	4.94	2201	2144	2769
1/14/25 20:00	8.02	269	19.2	4.51	15.5	30.4	32.9	39.4	1.15	355	239.8	17.6	4.94	2137	2155	2769
1/14/25 21:00	8.11	270	18.8	4.50	15.6	29.8	32.6	39.3	1.12	351	221.1	17.7	4.66	1988	2099	2768
1/14/25 22:00	8.05	271	18.9	4.49	15.7	30.1	31.3	39.3	1.15	351	227.0	17.6	4.75	2005	2048	2768
1/14/25 23:00	8.03	273	19.1	4.44	15.6	30.2	30.1	39.3	1.12	355	227.5	17.5	5.08	1976	2007	2768
1/15/25 0:00	7.99	273	20.1	5.16	15.5	33.6	30.1	39.3	1.12	360	252.8	17.5	5.49	2227	2033	2768
1/15/25 1:00	7.95	274	19.7	5.17	15.5	33.0	31.3	39.3	1.10	362	251.6	17.4	5.59	2174	2097	2768
1/15/25 2:00	7.87	275	19.5	4.40	15.4	30.6	32.3	39.3	1.14	365	289.1	17.3	5.98	2468	2180	2768
1/15/25 3:00	7.97	277	19.2	4.42	15.4	30.2	32.4	39.3	1.12	365	311.6	17.4	5.53	2723	2339	2768
1/15/25 4:00	8.10	276	19.8	4.34	15.5	31.0	31.3	39.3	1.15	363	303.4	17.5	5.44	2664	2519	2768
1/15/25 5:00	7.98	276	19.7	4.32	15.5	30.8	30.6	39.3	1.09	364	314.6	17.4	5.63	2767	2656	2768
1/15/25 6:00	7.93	275	19.1	5.04	15.5	31.7	30.7	39.3	1.08	364	399.0	17.4	5.73	3562	3017	2768
1/15/25 7:00	7.93	276	20.3	4.69	15.4	32.7	31.2	39.3	1.13	363	319.3	17.5	5.74	2961	3121	2768
1/15/25 8:00	8.15	277	19.8	4.23	15.5	30.7	31.7	39.3	1.16	360	261.2	17.5	5.20	2325	3151	2768
1/15/25 9:00	8.07	275	19.4	4.17	15.6	30.0	31.7	39.3	1.14	360	260.1	17.5	5.10	2266	2703	2768
1/15/25 10:00	7.96	277	18.9	4.25	15.4	29.4	31.1	39.3	1.12	361	245.2	17.6	5.08	2172	2450	2768
1/15/25 11:00	8.14	277	18.5	4.28	15.4	28.9	30.0	39.3	1.12	363	260.4	17.5	5.25	2264	2325	2768
1/15/25 12:00	8.20	276	19.1	5.29	15.4	32.2	29.4	39.3	1.16	364	256.4	17.5	5.26	2279	2276	2767
1/15/25 13:00	8.17	274	18.4	4.98	15.4	30.2	30.1	39.3	1.13	364	238.6	17.6	5.20	2155	2255	2767
1/15/25 14:00	8.05	272	18.9	4.37	15.4	29.7	30.4	39.3	1.15	363	259.9	17.6	5.14	2335	2175	2767
1/15/25 15:00	8.05	271	18.7	4.35	15.5	29.4	30.7	39.3	1.11	363	250.8	17.6	5.11	2228	2233	2767
1/15/25 16:00	7.97	273	18.5	4.43	15.5	29.2	29.8	39.3	1.13	359	218.9	17.7	4.85	2032	2219	2767
1/15/25 17:00	8.14	273	18.6	4.44	15.6	29.5	29.4	39.3	1.09	358	223.8	17.7	5.03	2055	2172	2767
1/15/25 18:00	8.07	272	19.6	5.28	15.6	33.2	29.4	39.3	1.10	357	219.5	17.6	4.84	1968	2052	2767
1/15/25 19:00	8.02	272	20.0	5.19	15.6	33.5	30.6	39.3	1.13	359	227.2	17.5	5.28	2003	2009	2766
1/15/25 20:00	8.07	272	20.5	4.47	15.6	32.5	32.0	39.3	1.09	358	230.9	17.6	5.01	2079	2029	2766
1/15/25 21:00	8.10	271	20.2	4.62	15.6	32.3	33.0	39.3	1.13	361	248.5	17.5	5.31	2170	2076	2766
1/15/25 22:00	8.03	272	19.9	4.64	15.4	31.8	32.8	39.3	1.09	309	260.8	17.9	5.06	2723	2126	2766
1/15/25 23:00	8.21	272	20.8	4.50	15.5	33.0	32.2	39.3	1.09	348	233.2	17.5	5.31	2039	2175	2766
1/16/25 0:00	8.06	274	21.9	5.31	15.5	36.9	32.4	39.3	1.14	354	227.3	17.6	5.09	2077	2144	2766
1/16/25 1:00	8.29	275	21.1	5.20	15.4	35.4	33.9	39.3	1.06	354	207.2	17.6	5.05	1879	2083	2766
1/16/25 2:00	8.28	273	22.0	4.46	15.5	34.7	35.1	39.3	1.08	355	214.1	17.6	5.19	1968	2001	2765
1/16/25 3:00	8.24	270	22.7	4.41	15.4	35.6	35.7	39.3	1.11	355	218.2	17.6	5.11	1997	1996	2765
1/16/25 4:00	8.09	269	22.8	4.36	15.5	35.8	35.2	39.3	1.08	356	227.5	17.6	5.09	2045	2006	2765
1/16/25 5:00	7.99	269	22.1	4.34	15.5	34.7	35.4	39.3	1.12	356	217.9	17.6	5.21	1989	2036	2765
1/16/25 6:00	7.88	272	23.3	5.17	15.5	38.9	35.4	39.3	1.12	355	201.4	17.6	5.11	1854	2045	2765
1/16/25 7:00	8.00	274	19.6	4.65	15.5	31.8	36.4	39.3	1.12	357	221.9	17.6	5.35	2007	2028	2765

Stack CEMS Data

	North Stack					North Stack SO2			South Stack					South Stack SO2		
						1Hr	3Hr	365Day						1 Hr	3Hr	365Day
	Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected			Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected		
Timestamp	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv
1/16/25 8:00	7.98	276	17.3	4.17	15.4	26.7	35.1	39.3	1.12	359	232.6	17.5	5.41	2078	2023	2765
1/16/25 9:00	8.01	278	17.5	4.25	15.3	27.2	32.5	39.3	1.10	359	222.6	17.6	5.29	2021	2011	2764
1/16/25 10:00	8.18	278	17.4	4.25	15.3	27.0	28.6	39.3	1.05	357	208.0	17.6	5.04	1891	2023	2764
1/16/25 11:00	8.10	274	17.7	4.19	15.5	27.3	27.0	39.3	1.14	357	202.9	17.5	5.46	1836	1980	2764
1/16/25 12:00	7.90	274	18.8	5.25	15.5	31.7	27.2	39.3	1.15	358	212.9	17.5	5.47	1935	1949	2764
1/16/25 13:00	7.97	275	18.8	4.85	15.5	30.6	28.7	39.3	1.15	358	221.0	17.6	5.21	2010	1946	2764
1/16/25 14:00	7.97	276	18.5	4.30	15.5	28.8	29.9	39.3	1.11	360	233.2	17.5	5.42	2095	2021	2764
1/16/25 15:00	7.99	275	18.6	4.29	15.5	29.1	30.4	39.3	1.07	362	246.9	17.5	5.44	2195	2117	2763
1/16/25 16:00	8.01	276	18.5	4.37	15.4	29.0	29.5	39.3	1.13	364	259.0	17.4	5.68	2296	2174	2763
1/16/25 17:00	8.10	277	18.2	4.42	15.4	28.6	29.0	39.3	1.08	363	252.5	17.5	5.71	2294	2225	2763
1/16/25 18:00	8.25	273	20.1	5.19	15.4	33.6	28.9	39.3	1.11	363	240.8	17.5	5.48	2187	2283	2763
1/16/25 19:00	8.03	274	19.5	5.19	15.3	32.5	30.4	39.3	1.09	363	263.8	17.5	5.33	2344	2332	2763
1/16/25 20:00	8.16	274	19.4	4.48	15.2	30.5	31.6	39.3	1.09	361	255.1	17.6	5.32	2300	2318	2763
1/16/25 21:00	8.28	278	18.8	4.72	15.1	30.2	32.2	39.3	1.06	363	248.0	17.6	5.37	2254	2298	2763
1/16/25 22:00	8.63	276	19.3	4.50	15.0	30.3	31.1	39.3	1.08	360	225.2	17.7	5.10	2077	2264	2763
1/16/25 23:00	8.50	272	19.8	4.39	15.1	31.0	30.3	39.3	1.10	359	221.7	17.6	5.18	1993	2211	2763
1/17/25 0:00	8.27	270	24.2	4.98	15.1	39.6	30.5	39.3	1.07	361	253.0	17.6	5.48	2313	2112	2762
1/17/25 1:00	8.16	270	22.4	5.09	15.1	36.9	33.6	39.3	1.08	362	217.9	17.6	5.29	2036	2122	2762
1/17/25 2:00	8.02	273	22.6	4.57	15.2	35.8	35.8	39.3	1.10	362	238.0	17.6	5.37	2156	2136	2762
1/17/25 3:00	8.20	276	22.6	4.39	15.2	35.4	37.4	39.3	1.11	362	237.0	17.6	5.32	2200	2167	2762
1/17/25 4:00	8.18	277	22.4	4.40	15.2	35.1	36.0	39.3	1.13	364	231.4	17.5	5.49	2085	2111	2762
1/17/25 5:00	8.20	277	22.7	4.43	15.2	35.6	35.4	39.3	1.08	365	224.8	17.5	5.51	2026	2108	2762
1/17/25 6:00	8.20	277	23.2	4.89	15.2	37.8	35.4	39.3	1.15	365	235.0	17.6	5.55	2164	2106	2762
1/17/25 7:00	8.20	276	17.9	4.46	15.2	28.3	36.2	39.3	1.04	366	231.9	17.6	5.58	2149	2124	2762
1/17/25 8:00	8.17	278	15.3	4.11	15.1	23.3	33.9	39.3	1.10	367	244.3	17.5	5.58	2244	2139	2761
1/17/25 9:00	8.22	277	16.3	4.13	15.1	25.0	29.8	39.3	1.14	366	236.7	17.5	5.68	2122	2154	2761
1/17/25 10:00	8.14	276	16.0	4.11	15.1	24.5	25.6	39.3	1.11	367	243.0	17.6	5.47	2287	2184	2761
1/17/25 11:00	7.98	276	16.7	4.13	15.1	25.5	24.3	39.2	1.07	369	243.6	17.5	5.61	2249	2221	2761
1/17/25 12:00	8.03	281	16.2	5.46	15.1	27.6	25.0	39.2	1.11	369	271.2	17.5	5.83	2538	2341	2761
1/17/25 13:00	8.29	281	15.1	4.60	15.1	24.0	25.8	39.2	1.15	368	247.7	17.5	5.93	2355	2395	2761
1/17/25 14:00	8.26	279	15.8	4.36	15.1	24.6	25.7	39.2	1.08	367	238.9	17.6	5.79	2271	2424	2761
1/17/25 15:00	8.28	275	15.6	4.30	15.1	24.1	25.4	39.2	1.07	366	218.3	17.7	5.56	2116	2339	2761
1/17/25 16:00	8.13	274	15.5	4.31	15.2	24.1	24.2	39.2	1.06	364	222.1	17.6	5.57	2083	2271	2761
1/17/25 17:00	8.19	274	15.8	4.32	15.2	24.6	24.3	39.2	1.11	362	224.4	17.7	5.56	2208	2190	2761
1/17/25 18:00	8.25	275	16.2	5.44	15.2	27.5	24.3	39.2	1.09	362	220.5	17.6	5.65	2128	2143	2760
1/17/25 19:00	8.22	274	16.1	4.72	15.3	25.9	25.4	39.2	1.06	361	219.8	17.6	5.60	2102	2111	2760
1/17/25 20:00	8.21	274	15.9	4.48	15.2	25.0	26.0	39.2	1.07	361	217.7	17.6	5.71	2083	2085	2760
1/17/25 21:00	8.29	275	16.0	4.45	15.1	25.1	26.1	39.2	1.09	360	212.3	17.7	5.60	2056	2068	2760
1/17/25 22:00	8.33	274	16.0	4.34	15.2	25.0	25.3	39.2	1.09	361	211.9	17.6	5.64	2054	2056	2760
1/17/25 23:00	8.20	272	16.2	4.33	15.3	25.3	25.0	39.2	1.11	362	206.8	17.6	5.63	1981	2055	2760
1/18/25 0:00	8.11	273	16.5	5.41	15.2	28.1	25.1	39.2	1.08	363	222.9	17.6	5.69	2145	2060	2760
1/18/25 1:00	8.16	274	16.3	4.74	15.3	26.2	26.1	39.2	1.09	364	220.1	17.6	5.69	2092	2061	2759
1/18/25 2:00	8.06	273	16.5	4.30	15.3	25.6	26.5	39.2	1.10	364	215.2	17.6	5.72	2041	2066	2759
1/18/25 3:00	7.99	275	16.5	4.30	15.3	25.7	26.7	39.2	1.08	367	242.9	17.5	5.85	2266	2084	2759
1/18/25 4:00	8.01	276	16.7	4.30	15.3	26.0	25.8	39.2	1.05	368	256.5	17.5	5.83	2417	2129	2759
1/18/25 5:00	7.97	278	16.6	4.32	15.2	25.8	25.8	39.2	1.06	367	304.6	17.6	5.51	2895	2182	2759
1/18/25 6:00	8.01	278	16.5	5.26	15.2	27.7	25.8	39.2	1.06	371	325.9	17.5	5.77	3043	2416	2759
1/18/25 7:00	8.02	278	14.3	4.65	15.4	23.2	26.5	39.2	1.10	370	281.2	17.6	5.62	2669	2705	2759
1/18/25 8:00	8.08	279	11.8	4.13	15.3	18.1	25.6	39.2	1.05	372	267.4	17.5	5.85	2435	2824	2759
1/18/25 9:00	8.20	277	12.0	4.10	15.4	18.4	23.0	39.2	1.05	371	244.4	17.5	5.77	2287	2723	2759
1/18/25 10:00	8.12	276	12.5	4.10	15.4	19.2	19.9	39.2	1.08	369	231.9	17.6	5.65	2162	2452	2759
1/18/25 11:00	8.06	277	12.1	4.13	15.4	18.7	18.6	39.2	1.07	371	239.0	17.5	5.73	2213	2345	2759
1/18/25 12:00	8.14	279	12.7	5.62	15.3	21.9	18.8	39.2	1.07	371	250.6	17.6	5.69	2343	2258	2759
1/18/25 13:00	8.33	280	13.3	4.35	15.2	20.8	19.9	39.2	1.03	372	238.6	17.5	5.83	2188	2258	2758
1/18/25 14:00	8.37	279	15.4	4.35	15.2	24.0	20.5	39.2	1.09	369	237.8	17.5	6.00	2216	2241	2758
1/18/25 15:00	8.36	275	16.1	4.30	15.1	25.0	22.2	39.2	1.11	368	238.5	17.6	5.90	2276	2235	2758
1/18/25 16:00	8.19	272	15.8	4.28	15.1	24.6	23.3	39.2	1.14	369	237.6	17.5	5.84	2240	2254	2758
1/18/25 17:00	8.00	273	16.5	4.33	15.1	25.7	24.5	39.2	1.11	320	238.2	17.6	5.09	2164	2275	2758
1/18/25 18:00	8.17	276	16.7	5.68	15.0	28.9	25.1	39.2	1.11	353	242.5	17.5	5.75	2234	2314	2758
1/18/25 19:00	8.36	278	18.0	5.00	15.0	29.4	26.4	39.1	1.07	360	227.9	17.7	5.42	2191	2289	2758
1/18/25 20:00	8.68	275	32.1	4.55	14.6	50.4	28.0	39.1	1.10	360	216.2	17.7	5.32	2084	2256	2758
1/18/25 21:00	8.47	276	34.7	4.45	14.7	54.1	36.2	39.1	1.09	360	225.0	17.6	5.41	2113	2176	2758
1/18/25 22:00	8.61	276	35.1	4.43	14.8	54.6	44.6	39.2	1.10	361	221.6	17.7	5.41	2146	2130	2757
1/18/25 23:00	8.53	275	35.9	4.36	14.8	55.7	53.0	39.2	1.08	361	227.0	17.7	5.14	2141	2115	2757
1/19/25 0:00	8.48	274	37.1	5.69	14.8	64.0	54.8	39.2	1.09	360	209.3	17.7	5.10	1950	2104	2757
1/19/25 1:00	8.22	274	36.3	4.28	14.8	56.0	58.1	39.2	1.07	362	246.3	17.6	5.48	2294	2102	2757
1/19/25 2:00	8.10	274	35.4	4.24	14.8	54.5	58.6	39.2	1.08	363	234.8	17.6	5.43	2177	2124	2757
1/19/25 3:00	8.03	277	35.2	4.22	14.8	54.0	58.2	39.2	1.09	361	233.0	17.6	5.12	2149	2181	2757
1/19/25 4:00	8.12	278	35.9	4.23	14.7	55.1	54.8	39.2	1.08	361	236.0	17.6	5.19	2150	2199	2757
1/19/25 5:00	8.01	279	50.0	4.59	14.0	78.0	54.5	39.2	1.20	361	219.7	17.6	5.33	1993	2173	2757
1/19/25 6:00	8.17	279	69.6	6.36	13.1	124.1	62.4	39.2	1.21	361	243.7	17.5	5.60	2249	2156	2756
1/19/25 7:00	8.25	279	79.2	5.56	12.8	130.5	85.7	39.2	1.16	362	252.5	17.6	5.63	2360	2206	2756
1/19/25 8:00	8.27	281	78.8	5.28	12.7	126.7	110.9	39.2	1.19	361	251.2	17.6	5.47	2350	2305	2756
1/19/25 9:00	8.50	283	81.2	5.45	12.4	131.7	127.1	39.2	1.22	361	242.3	17.6	5.47	2266	2319	2756
1/19/25 10:00	8.53	285	85.5	5.78	12.1	141.7	129.7	39.3	1.21	361	254.8	17.6	5.44	2358	2309	2756
1/19/25 11:00	8.74	286	87.8	5.82	12.2	146.0	133.4	39.3	1.22	360	233.6	17.6	5.26	2166	2261	2756
1/19/25 12:00	8.66	284	91.0	7.09	12.2	168.9	139.8	39.3	1.11	360	243.3	17.6	5.38	2266	2256	2756
1/19/25 13:00	8.44	283	95.2	6.12	12.3	162.8	152.2	39.3	1.09	229	254.6	18.0	4.80	2624	2279	2756
1/19/25 14:00	8.41	284	92.0	5.79	12.2	152.8	159.2	39.4	1.12	328	223.4	17.3	5.60	1879	2268	2756
1/19/25 15:00	8.43	284	91.6	5.85	12.2	152.9	161.5	39.4	1.21	358	226.7	17.5	5.54	2038	2193	2756
1/19/25 16:00	8.46	288	91.2	5.87	12.3	152.7	156.2	39.4	1.25	367	320.2	17.5	5.58	2935	2261	2756
1/19/25 17:00	8.76	288	93.3	5.69	12.3	154.1	152.8	39.4	1.12	371	254.8	17.6	5.41	2336	2361	2755
1/19/25 18:00	8.66	285	93.2	6.59	12.4	165.9	153.2	39.4	1.11	371	240.1	17.6	5.35	2172	2413	2755
1/19/25 19:00	8.69	284	92.3	6.19	12.4	159.0	157.6	39.5	1.12	372	216.4	17.6	5.45	1991	2248	2755
1/19/25 20:00	8.66	282	90.6	5.64	12.3	148.8	159.7	39.5	1.09	373	231.8	17.6	5.35	2119	2088	2755
1/19/25 21:00	8.79	285	87.1	5.75	12.2	144.3	157.9	39.5	1.14	370	217.5	17.6	5.12	1956	2036	2755
1/19/25 22:00	9.18	280	89.6	5.69	12.2	147.6	150.7	39.5	1.12	369	195.5	17.6	5.18	1808	1999	2755
1/19/25 23:00	8.93	278	91.1	5.66	12.3	149.9	146.9	39.6	1.18	367	201.2	17.6	5.24	1863	1936	2755
1/20/25 0:00	8.89	278	89.8	6.71	12.4	161.5	147.2	39.6	1.21	367	215.7	17.5	5.35	1936	1886	2754
1/20/25 1:00	9.11	277	90.1	6.22	12.2	155.3	153.0	39.6	1.18	366	193.0	17.7	5.18	1800	1892	2754
1/20/25 2:00	8.98	279	87.9	5.73	12.2	145.2	155.6	39.6	1.26	363	188.4	17.7	5.10	1758	1875	2754
1/20/25 3:00	9.26	282	87.1	5.76	12.2	144.2	154.0	39.7	1.16	361	177.6	17.7	5.09	1685	1850	2754

Stack CEMS Data

	North Stack					North Stack SO2			South Stack					South Stack SO2		
						1Hr	3Hr	365Day						1 Hr	3Hr	365Day
	Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected			Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected		
Timestamp	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv
1/20/25 4:00	9.39	282	86.6	5.75	12.2	143.2	148.2	39.7	1.16	360	182.1	17.7	5.13	1703	1774	2754
1/20/25 5:00	9.35	280	89.5	5.71	12.2	147.6	144.2	39.7	1.18	359	188.4	17.7	5.10	1762	1731	2753
1/20/25 6:00	9.25	277	93.1	6.79	12.1	167.8	145.0	39.7	1.19	360	170.0	17.7	4.99	1564	1697	2753
1/20/25 7:00	9.15	277	90.5	6.10	12.1	154.5	152.9	39.7	1.17	360	188.2	17.7	4.76	1755	1722	2753
1/20/25 8:00	8.93	278	88.2	5.58	12.1	143.8	156.6	39.8	1.14	361	195.3	17.6	4.88	1746	1738	2753
1/20/25 9:00	9.01	281	88.4	5.57	12.1	144.0	155.4	39.8	1.15	360	164.8	17.7	4.73	1492	1723	2753
1/20/25 10:00	8.93	282	89.2	5.59	12.1	145.4	147.4	39.8	1.17	359	179.5	17.7	4.74	1646	1685	2752
1/20/25 11:00	8.94	287	85.7	5.66	12.0	140.4	144.4	39.8	1.12	359	187.3	17.7	4.64	1701	1651	2752
1/20/25 12:00	9.23	283	88.9	6.58	12.0	157.2	143.2	39.9	1.15	356	167.8	17.8	4.30	1507	1637	2752
1/20/25 13:00	8.93	284	87.1	6.43	12.0	152.1	147.7	39.9	1.16	355	234.8	17.6	4.52	2025	1627	2752
1/20/25 14:00	9.15	282	88.0	5.73	12.0	144.9	149.9	39.9	1.12	355	262.7	17.6	4.49	2284	1670	2751
1/20/25 15:00	9.09	283	87.9	5.76	11.9	145.1	151.4	39.9	1.15	352	160.6	17.8	4.17	1435	1690	2751
1/20/25 16:00	9.19	278	92.0	5.54	12.2	149.7	147.4	39.9	1.14	351	161.6	17.8	4.25	1440	1636	2751
1/20/25 17:00	8.84	278	92.5	5.40	12.4	149.3	146.6	40.0	1.19	352	163.6	17.7	4.44	1471	1561	2751
1/20/25 18:00	8.85	278	92.5	6.40	12.2	161.6	148.0	40.0	1.17	353	156.5	17.6	4.79	1389	1493	2750
1/20/25 19:00	8.84	281	91.0	6.44	12.2	159.3	153.5	40.0	1.16	354	152.2	17.7	4.90	1398	1466	2750
1/20/25 20:00	9.04	283	89.3	5.67	12.8	148.2	156.7	40.0	1.16	353	142.4	17.8	4.56	1321	1430	2750
1/20/25 21:00	9.26	278	91.9	5.58	12.2	150.3	156.4	40.1	1.14	352	146.4	17.8	4.63	1356	1419	2750
1/20/25 22:00	8.99	280	90.1	5.66	12.2	148.1	152.6	40.1	1.14	351	145.6	17.8	4.35	1348	1418	2749
1/20/25 23:00	9.17	281	89.5	5.70	12.3	147.7	148.9	40.1	1.18	351	161.6	17.9	4.32	1517	1439	2749
1/21/25 0:00	9.17	279	90.3	6.46	12.2	158.7	148.7	40.1	1.18	349	161.7	17.8	4.43	1471	1457	2749
1/21/25 1:00	9.02	279	90.9	6.54	12.2	160.4	151.5	40.2	1.14	349	136.5	17.7	4.62	1239	1432	2749
1/21/25 2:00	9.08	278	90.4	5.71	12.1	148.9	155.6	40.2	1.17	347	150.1	17.8	4.26	1393	1424	2748
1/21/25 3:00	9.05	277	92.6	5.66	12.2	152.0	156.0	40.2	1.11	346	130.5	17.8	4.44	1223	1401	2748
1/21/25 4:00	8.96	279	90.1	5.68	12.1	148.1	153.8	40.2	1.12	346	124.0	17.9	4.05	1182	1455	2748
1/21/25 5:00	9.06	279	90.9	5.66	12.2	149.3	149.7	40.2	1.14	346	129.9	17.8	4.22	1201	1406	2747
1/21/25 6:00	8.98	280	90.2	6.42	12.1	157.4	149.8	40.3	1.15	345	122.8	17.9	4.25	1155	1366	2747
1/21/25 7:00	9.04	282	88.4	6.03	12.1	149.6	151.6	40.3	1.15	345	130.4	17.9	4.13	1227	1319	2747
1/21/25 8:00	9.15	280	89.8	5.72	12.1	148.1	152.1	40.3	1.14	344	267.9	17.8	4.22	2467	1346	2747
1/21/25 9:00	9.02	281	88.9	5.71	12.1	146.5	151.7	40.3	1.12	346	129.1	17.8	4.45	1211	1471	2746
1/21/25 10:00	9.01	281	90.1	5.70	12.1	148.4	148.0	40.4	1.15	347	149.0	17.8	4.39	1358	1448	2746
1/21/25 11:00	8.97	281	89.6	5.73	12.1	148.0	147.6	40.4	1.10	350	134.7	17.7	4.50	1217	1419	2746
1/21/25 12:00	8.94	284	88.5	6.12	12.1	150.5	147.6	40.4	1.15	352	142.2	17.8	4.57	1308	1309	2745
1/21/25 13:00	9.02	280	90.6	6.06	12.1	153.3	149.0	40.4	1.15	355	140.6	17.7	4.60	1270	1358	2745
1/21/25 14:00	8.73	285	85.3	6.21	12.1	146.2	150.6	40.4	1.13	356	160.1	17.7	4.65	1461	1489	2745
1/21/25 15:00	9.26	285	84.9	6.22	12.0	145.5	150.0	40.5	1.11	354	153.7	17.8	4.49	1425	1523	2745
1/21/25 16:00	9.27	286	84.0	6.21	12.0	143.9	148.3	40.5	1.12	353	136.7	17.8	4.39	1247	1511	2744
1/21/25 17:00	9.36	283	86.0	6.02	12.0	145.1	145.2	40.5	1.12	353	147.2	17.8	4.41	1343	1412	2744
1/21/25 18:00	9.17	283	86.4	6.23	12.0	148.2	144.8	40.5	1.11	356	262.3	17.5	4.99	2291	1438	2744
1/21/25 19:00	9.22	280	89.2	6.17	12.1	152.2	145.7	40.6	1.15	355	196.9	17.7	4.55	1767	1541	2744
1/21/25 20:00	9.11	279	88.5	6.17	12.1	151.2	148.5	40.6	1.17	355	187.1	17.7	4.67	1664	1540	2743
1/21/25 21:00	9.12	282	85.6	6.23	12.1	146.9	150.5	40.6	1.15	355	154.7	17.7	4.64	1377	1516	2743
1/21/25 22:00	9.39	282	85.8	6.27	12.0	147.6	150.1	40.6	1.15	351	146.5	17.7	4.41	1312	1407	2743
1/21/25 23:00	9.41	284	85.2	6.20	12.1	145.9	148.6	40.6	1.13	350	151.5	17.7	4.39	1357	1409	2743
1/22/25 0:00	9.47	282	86.4	6.26	12.0	148.6	146.8	40.7	1.14	350	162.0	17.8	4.37	1490	1397	2742
1/22/25 1:00	9.36	279	89.2	6.21	12.0	152.9	147.4	40.7	1.15	349	196.0	17.8	4.25	1750	1427	2742
1/22/25 2:00	9.22	277	91.2	6.17	12.1	155.7	149.1	40.7	1.13	349	240.7	17.7	4.39	2131	1700	2742
1/22/25 3:00	8.98	279	89.8	6.21	12.1	153.8	152.4	40.7	1.21	349	362.3	17.7	4.53	3239	2034	2742
1/22/25 4:00	9.17	280	90.2	6.17	12.1	154.2	154.1	40.8	1.15	349	292.5	17.7	4.52	2600	2447	2742
1/22/25 5:00	9.14	281	89.7	6.03	12.0	151.3	154.6	40.8	1.20	350	340.6	17.7	4.53	3004	2519	2742
1/22/25 6:00	9.24	283	89.0	6.21	12.1	152.4	153.1	40.8	1.11	348	268.4	17.7	4.47	2395	2445	2742
1/22/25 7:00	9.27	281	90.6	5.93	12.1	151.9	152.6	40.8	1.11	348	142.3	17.7	4.46	1285	2147	2742
1/22/25 8:00	9.13	281	90.4	5.81	12.0	149.9	151.9	40.8	1.16	349	135.8	17.7	4.39	1192	1748	2741
1/22/25 9:00	9.13	281	90.0	5.78	12.0	149.0	151.4	40.9	1.15	351	153.1	17.7	4.52	1341	1473	2741
1/22/25 10:00	8.98	282	86.5	5.82	12.1	143.9	150.2	40.9	1.16	354	206.5	17.6	4.71	1780	1367	2741
1/22/25 11:00	9.03	284	85.3	5.88	12.1	142.4	147.6	40.9	1.14	353	153.4	17.7	4.47	1380	1402	2740
1/22/25 12:00	9.17	284	84.0	6.12	12.1	143.1	145.1	40.9	1.21	351	154.3	17.7	4.57	1398	1429	2740
1/22/25 13:00	9.17	284	83.1	6.16	12.1	141.9	143.1	41.0	1.14	350	142.6	17.6	4.67	1257	1391	2740
1/22/25 14:00	9.26	282	85.2	6.14	12.1	145.3	142.5	41.0	1.18	351	182.9	17.7	4.59	1644	1387	2740
1/22/25 15:00	9.10	281	86.4	6.10	12.1	146.8	143.4	41.0	1.13	353	179.5	17.6	4.74	1570	1423	2739
1/22/25 16:00	9.10	284	86.4	6.17	12.0	147.3	144.7	41.0	1.13	355	149.9	17.6	4.95	1309	1429	2739
1/22/25 17:00	9.41	286	88.0	6.15	12.0	149.8	146.5	41.0	1.14	353	145.9	17.7	4.90	1328	1408	2739
1/22/25 18:00	9.36	286	88.2	6.12	12.0	149.8	148.0	41.1	1.15	355	175.0	17.7	4.73	1563	1334	2739
1/22/25 19:00	9.34	285	88.9	6.07	12.0	150.3	149.0	41.1	1.12	356	136.9	17.7	4.88	1248	1357	2738
1/22/25 20:00	9.22	283	89.7	6.05	12.0	151.6	150.0	41.1	1.17	355	210.2	17.6	4.96	1888	1495	2738
1/22/25 21:00	9.15	281	90.6	6.03	12.0	152.8	150.6	41.1	1.14	356	141.6	17.7	4.79	1295	1515	2738
1/22/25 22:00	9.01	282	90.5	6.04	12.0	152.7	151.6	41.1	1.10	358	150.4	17.7	4.65	1377	1574	2738
1/22/25 23:00	9.11	286	87.9	6.12	11.9	149.1	152.4	41.2	1.10	358	153.0	17.7	4.68	1362	1499	2737
1/23/25 0:00	9.32	287	90.9	6.07	11.9	153.7	151.5	41.2	1.09	357	183.5	17.8	4.60	1699	1542	2737
1/23/25 1:00	9.25	285	91.8	6.05	12.0	154.9	151.8	41.2	1.14	359	165.2	17.7	4.85	1488	1522	2737
1/23/25 2:00	9.11	289	87.5	6.13	12.0	148.8	152.6	41.2	1.13	360	160.0	17.7	4.77	1467	1569	2737
1/23/25 3:00	9.40	292	86.3	6.15	12.0	147.0	152.5	41.3	1.10	361	172.0	17.7	4.89	1565	1616	2736
1/23/25 4:00	9.47	290	87.3	6.12	12.1	148.5	150.2	41.3	1.10	360	169.3	17.7	4.87	1550	1757	2736
1/23/25 5:00	9.36	290	86.5	6.10	12.1	146.9	148.1	41.3	1.09	361	213.2	17.7	4.95	1947	1887	2736
1/23/25 6:00	9.28	284	89.6	6.04	12.1	151.6	147.5	41.3	1.11	362	200.6	17.6	5.04	1819	1958	2736
1/23/25 7:00	9.00	285	86.9	5.80	12.1	144.2	149.0	41.3	1.12	361	158.7	17.6	4.94	1440	1852	2736
1/23/25 8:00	9.10	289	85.5	5.72	12.2	141.1	147.6	41.4	1.13	362	173.3	17.7	4.86	1575	1715	2735
1/23/25 9:00	9.22	287	89.1	5.56	12.3	145.5	145.6	41.4	1.06	363	161.2	17.7	4.95	1466	1628	2735
1/23/25 10:00	8.96	286	71.5	5.10	13.3	114.8	143.6	41.4	1.11	364	182.5	17.7	4.84	1677	1646	2735
1/23/25 11:00	8.68	285	64.7	4.92	13.6	102.7	133.8	41.4	1.12	362	192.5	17.8	4.65	1793	1684	2735
1/23/25 12:00	8.54	284	58.5	5.36	13.7	96.2	121.0	41.4	1.25	364	149.0	17.7	4.80	1367	1715	2735
1/23/25 13:00	8.42	287	38.7	5.33	14.3	64.2	104.6	41.4	1.29	366	156.8	17.6	5.10	1398	1689	2734
1/23/25 14:00	8.54	290	29.5	5.18	14.6	48.6	87.7	41.5	1.32	367	171.1	17.6	5.07	1530	1650	2734
1/23/25 15:00	8.53	290	29.7	5.13	14.5	48.7	69.7	41.5	1.33	369	171.1	17.6	4.84	1516	1613	2734
1/23/25 16:00	8.56	289	33.3	4.99	14.5	53.9	53.8	41.5	1.26	370	203.2	17.5	5.24	1791	1653	2734
1/23/25 17:00	8.54	289	33.3	4.85	14.5	53.3	50.4	41.5	1.33	369	170.1	17.6	4.99	1506	1698	2734
1/23/25 18:00	8.56	290	30.5	5.13	14.3	49.7	52.0	41.5	1.31	370	326.2	17.6	5.17	2917	1761	2733
1/23/25 19:00	8.64	290	19.5	5.22	14.7	32.2	52.3	41.5	1.30	369	237.8	17.6	5.04	2157	1944	2733
1/23/25 20:00	8.57	290	12.5	5.23	14.9	20.8	45.1	41.5	1.31	370	200.9	17.5	5.08	1759	1982	2733
1/23/25 21:00	8.68	286	14.0	5.09	14.9	23.0	34.2	41.5	1.27	370	259.3	17.5	5.06	2261	2027	2733
1/23/25 22:00	8.54	283	15.9	4.97	15.2	26.1	25.3	41.4	1.00	391	10901.7	16.3	5.91	66400	2411	2733
1/23/25 23:00	8.39	278	15.6	4.84	15.2	25.4	23.3	41.4	1.31	374	564.3	17.7	4.92	5282	11211	2738

Stack CEMS Data

	North Stack					North Stack SO2			South Stack					South Stack SO2		
						1Hr	3Hr	365Day						1 Hr	3Hr	365Day
	Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected			Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected		
Timestamp	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv
1/24/25 0:00	8.16	276	15.2	4.82	15.1	24.5	24.8	41.4	1.30	369	287.8	17.8	4.86	2783	12475	2739
1/24/25 1:00	8.21	274	14.7	4.82	15.1	23.7	25.3	41.4	1.31	368	261.5	17.7	5.01	2472	12267	2739
1/24/25 2:00	8.12	275	15.1	4.84	15.1	24.4	24.5	41.4	1.33	372	251.5	17.6	5.33	2324	3639	2739
1/24/25 3:00	8.15	275	15.7	4.82	15.1	25.3	24.2	41.4	1.31	374	268.5	17.5	5.44	2418	2589	2739
1/24/25 4:00	8.11	276	16.2	4.80	15.0	26.1	24.4	41.4	1.36	377	281.2	17.5	5.66	2570	2459	2739
1/24/25 5:00	8.14	275	16.1	4.77	15.0	25.8	25.2	41.4	1.30	377	272.2	17.6	5.76	2572	2429	2739
1/24/25 6:00	8.06	273	15.7	4.69	15.1	25.1	25.7	41.4	1.34	378	261.7	17.5	5.63	2412	2384	2739
1/24/25 7:00	7.92	276	16.9	4.44	15.0	26.4	25.7	41.4	1.29	378	246.2	17.6	5.48	2307	2364	2738
1/24/25 8:00	8.11	277	17.7	4.24	15.1	27.4	25.8	41.4	1.29	377	245.7	17.6	5.26	2275	2383	2738
1/24/25 9:00	8.07	281	17.6	4.27	15.0	27.2	26.3	41.4	1.30	378	304.6	17.6	5.32	2798	2326	2738
1/24/25 10:00	8.20	282	17.0	4.31	15.1	26.3	27.0	41.4	1.30	378	240.6	17.7	5.03	2231	2440	2738
1/24/25 11:00	8.11	278	17.7	4.27	15.1	27.4	27.0	41.4	1.31	380	273.5	17.6	5.41	2491	2440	2738
1/24/25 12:00	7.92	281	17.3	5.01	15.0	28.3	27.0	41.4	1.31	380	242.2	17.7	5.19	2272	2508	2738
1/24/25 13:00	8.22	283	16.1	5.13	15.0	26.6	27.3	41.4	1.31	378	231.4	17.8	5.01	2213	2335	2738
1/24/25 14:00	8.34	280	16.2	4.85	15.0	26.1	27.4	41.4	1.33	376	230.3	17.7	5.11	2204	2305	2738
1/24/25 15:00	8.36	276	15.9	4.43	15.0	24.8	27.0	41.4	1.31	375	225.9	17.7	5.04	2153	2198	2738
1/24/25 16:00	8.08	273	15.4	4.41	15.0	24.0	25.8	41.4	1.34	376	229.9	17.7	5.16	2167	2218	2738
1/24/25 17:00	8.06	274	15.3	4.42	15.0	24.0	25.0	41.4	1.30	375	220.6	17.7	5.04	2108	2209	2738
1/24/25 18:00	8.16	278	15.3	5.36	14.7	25.7	24.3	41.4	1.31	373	231.3	17.7	5.04	2199	2211	2737
1/24/25 19:00	8.42	278	17.3	5.64	14.7	29.6	24.5	41.4	1.27	372	219.9	17.8	4.89	2111	2152	2737
1/24/25 20:00	8.44	274	17.6	4.80	15.0	28.3	26.4	41.4	1.33	371	216.5	17.7	4.97	2042	2116	2737
1/24/25 21:00	8.14	273	17.6	4.44	15.0	27.5	27.9	41.4	1.30	372	222.4	17.7	5.11	2144	2090	2737
1/24/25 22:00	8.15	274	17.1	4.40	15.1	26.8	28.5	41.4	1.37	373	215.9	17.7	5.09	2031	2078	2737
1/24/25 23:00	8.01	276	17.3	4.41	15.1	27.1	27.6	41.4	1.35	374	232.8	17.7	5.32	2225	2094	2737
1/25/25 0:00	8.09	278	18.7	5.01	15.1	30.6	27.1	41.4	1.35	373	210.0	17.8	5.09	2063	2120	2737
1/25/25 1:00	8.10	277	17.6	5.08	15.1	29.0	28.1	41.4	1.37	373	216.9	17.7	5.31	2053	2138	2737
1/25/25 2:00	7.98	279	17.0	4.79	15.1	27.4	28.9	41.4	1.28	372	214.3	17.8	5.23	2095	2163	2737
1/25/25 3:00	8.10	279	17.2	4.39	15.2	26.8	29.0	41.4	1.31	373	215.5	17.7	5.28	2074	2181	2736
1/25/25 4:00	8.02	278	17.0	4.43	15.1	26.7	27.8	41.4	1.32	373	218.5	17.7	5.32	2132	2207	2736
1/25/25 5:00	8.12	280	16.7	4.47	15.1	26.3	27.0	41.4	1.36	373	222.2	17.8	5.10	2187	2230	2736
1/25/25 6:00	8.36	281	17.0	5.08	15.1	27.9	26.6	41.4	1.35	371	200.5	17.8	5.00	1994	2231	2736
1/25/25 7:00	8.37	275	14.6	4.57	15.1	23.2	27.0	41.4	1.32	370	220.2	17.8	5.13	2164	2200	2736
1/25/25 8:00	8.13	276	13.6	4.32	15.1	21.2	25.8	41.3	1.34	372	217.1	17.4	5.26	1850	2115	2736
1/25/25 9:00	8.30	275	13.7	4.31	15.1	21.2	24.1	41.3	1.29	369	206.5	17.5	5.12	1787	2012	2736
1/25/25 10:00	8.15	277	13.8	4.35	15.1	21.5	21.9	41.3	1.33	369	206.6	17.5	5.19	1796	1929	2735
1/25/25 11:00	8.36	280	13.4	4.39	15.1	20.9	21.3	41.3	1.34	370	193.1	17.5	5.14	1672	1867	2735
1/25/25 12:00	8.44	280	14.0	5.15	15.1	23.3	21.2	41.3	1.32	372	211.2	17.4	5.35	1808	1862	2735
1/25/25 13:00	8.48	278	13.6	5.17	15.1	22.5	21.9	41.3	1.30	373	210.3	17.5	5.27	1845	1862	2735
1/25/25 14:00	8.21	276	13.9	4.59	15.2	22.1	22.2	41.3	1.32	376	218.2	17.4	5.41	1890	1902	2735
1/25/25 15:00	8.20	276	13.4	4.45	15.2	21.0	22.6	41.3	1.31	377	215.5	17.5	5.24	1856	1937	2735
1/25/25 16:00	8.19	277	12.9	4.48	15.1	20.3	21.8	41.3	1.30	378	242.8	17.4	5.43	2072	1972	2735
1/25/25 17:00	8.26	277	12.6	4.50	15.1	19.8	21.1	41.3	1.27	379	226.7	17.4	5.39	1923	1981	2734
1/25/25 18:00	8.26	277	12.4	4.98	15.1	20.4	20.4	41.3	1.36	377	215.8	17.4	5.51	1855	1960	2734
1/25/25 19:00	8.40	281	13.2	5.21	15.2	21.9	20.1	41.3	1.28	374	189.1	17.4	5.41	1623	1908	2734
1/25/25 20:00	8.58	278	12.2	5.03	15.2	20.0	20.7	41.3	1.30	375	202.4	17.5	5.43	1780	1861	2734
1/25/25 21:00	8.31	280	12.7	4.82	15.1	20.5	20.8	41.3	1.27	376	202.2	17.5	5.25	1781	1901	2734
1/25/25 22:00	8.57	283	12.6	4.61	15.1	20.1	20.8	41.3	1.34	373	205.4	17.6	5.18	1829	1922	2734
1/25/25 23:00	8.60	284	12.1	4.60	15.2	19.3	20.2	41.3	1.34	373	190.1	17.6	5.07	1705	1926	2733
1/26/25 0:00	8.59	280	13.6	4.89	15.2	22.2	19.9	41.3	1.31	372	194.8	17.5	5.08	1717	1871	2733
1/26/25 1:00	8.36	278	12.6	4.93	15.2	20.5	20.5	41.3	1.31	372	203.8	17.5	5.21	1782	1873	2733
1/26/25 2:00	8.29	277	13.2	4.93	15.2	21.5	20.7	41.3	1.33	376	219.8	17.4	5.36	1902	1920	2733
1/26/25 3:00	8.33	278	13.6	4.89	15.2	22.2	21.4	41.3	1.28	377	230.3	17.4	5.44	1990	1912	2733
1/26/25 4:00	8.32	279	13.6	4.70	15.2	21.8	21.4	41.3	1.27	376	215.1	17.5	5.39	1905	1890	2733
1/26/25 5:00	8.38	279	13.3	4.57	15.1	21.1	21.8	41.3	1.29	374	196.1	17.5	5.13	1703	1842	2732
1/26/25 6:00	8.38	279	13.9	4.85	15.1	22.4	21.7	41.3	1.29	374	202.1	17.5	5.13	1757	1846	2732
1/26/25 7:00	8.40	278	15.7	4.44	15.0	24.6	21.8	41.3	1.23	373	225.1	17.5	5.22	1940	1832	2732
1/26/25 8:00	8.29	276	16.2	4.15	15.0	24.8	22.7	41.3	1.32	375	226.6	17.4	5.35	1927	1832	2732
1/26/25 9:00	8.23	277	16.3	4.17	15.0	25.0	24.0	41.2	1.28	374	222.2	17.5	5.24	1967	1800	2732
1/26/25 10:00	8.22	276	16.9	4.19	15.0	26.0	24.8	41.2	1.32	374	210.0	17.5	5.23	1838	1798	2731
1/26/25 11:00	8.12	276	17.6	4.22	15.0	27.2	25.3	41.2	1.34	374	214.1	17.6	5.10	1898	1774	2731
1/26/25 12:00	8.09	279	18.2	5.38	15.0	30.7	26.1	41.2	1.31	374	190.2	17.5	5.08	1658	1791	2731
1/26/25 13:00	8.26	279	18.3	4.85	15.0	29.5	27.9	41.2	1.30	375	221.6	17.5	5.29	1977	1796	2731
1/26/25 14:00	8.25	277	19.1	4.34	15.0	29.7	29.1	41.2	1.32	376	213.0	17.4	5.30	1824	1804	2731
1/26/25 15:00	8.18	278	19.6	4.35	14.9	30.5	30.0	41.2	1.28	376	207.6	17.5	5.30	1820	1815	2730
1/26/25 16:00	8.21	276	19.7	4.37	14.9	30.7	29.9	41.2	1.26	377	225.7	17.4	5.48	1932	1827	2730
1/26/25 17:00	8.25	279	19.2	4.38	14.9	29.8	30.3	41.2	1.27	376	199.3	17.5	5.19	1746	1855	2730
1/26/25 18:00	8.45	281	19.5	5.46	14.9	33.0	30.3	41.2	1.32	374	215.5	17.5	5.39	1877	1829	2730
1/26/25 19:00	8.49	278	20.0	4.79	14.9	32.2	31.2	41.2	1.32	376	202.4	17.4	5.48	1745	1819	2730
1/26/25 20:00	8.32	278	19.9	4.44	14.9	31.1	31.7	41.2	1.29	376	190.1	17.6	5.33	1726	1856	2730
1/26/25 21:00	8.47	282	18.8	4.59	14.8	29.7	32.1	41.2	1.32	376	204.9	17.5	5.22	1806	1903	2729
1/26/25 22:00	8.65	279	19.6	4.37	14.9	30.5	31.0	41.2	1.37	376	222.5	17.4	5.58	1943	1924	2729
1/26/25 23:00	8.56	281	19.5	4.39	14.9	30.4	30.4	41.2	1.30	375	208.0	17.5	5.38	1861	1889	2729
1/27/25 0:00	8.70	281	20.1	5.53	14.9	34.2	30.2	41.2	1.30	374	213.4	17.5	5.26	1866	1895	2729
1/27/25 1:00	8.73	280	19.7	4.72	14.9	31.5	31.7	41.2	1.30	375	237.2	17.4	5.47	2071	1930	2729
1/27/25 2:00	8.59	278	20.1	4.34	14.9	31.2	32.0	41.2	1.36	374	233.3	17.5	5.20	2055	1972	2729
1/27/25 3:00	8.59	277	19.9	4.31	14.9	30.9	32.3	41.2	1.32	374	237.7	17.5	5.32	2057	1987	2729
1/27/25 4:00	8.51	278	19.5	4.31	14.9	30.3	31.2	41.2	1.30	372	229.8	17.5	5.23	1990	1986	2728
1/27/25 5:00	8.60	279	19.6	4.32	14.8	30.4	30.8	41.2	1.30	372	233.0	17.5	5.12	2057	1966	2728
1/27/25 6:00	8.58	279	20.1	5.48	14.8	34.0	30.5	41.2	1.30	372	226.6	17.5	5.28	1986	1968	2728
1/27/25 7:00	8.67	279	17.8	4.63	14.8	28.6	31.6	41.2	1.29	369	201.1	17.6	4.95	1813	1941	2728
1/27/25 8:00	8.63	279	15.6	4.09	14.8	23.8	31.0	41.2	1.30	369	211.7	17.6	5.11	1872	1905	2728
1/27/25 9:00	8.63	282	16.2	4.12	14.8	24.7	28.8	41.2	1.26	369	203.2	17.6	5.06	1823	1885	2728
1/27/25 10:00	8.81	283	16.0	4.11	14.8	24.3	25.7	41.2	1.28	369	202.7	17.6	4.94	1820	1884	2727
1/27/25 11:00	8.63	284	16.7	4.20	14.7	25.5	24.3	41.2	1.30	369	205.0	17.6	4.98	1819	1900	2727
1/27/25 12:00	8.07	287	15.8	5.69	14.7	27.2	24.8	41.2	1.32	371	235.2	17.5	5.06	2036	1921	2727
1/27/25 13:00	8.12	289	13.2	4.66	14.6	20.9	25.7	41.2	1.26	372	241.6	17.4	5.36	2091	1987	2727
1/27/25 14:00	8.16	288	15.1	4.54	14.6	23.7	24.5	41.2	1.26	371	236.8	17.6	5.19	2120	2038	2727
1/27/25 15:00	8.09	283	16.1	4.37	14.7	25.0	23.9	41.2	1.29	371	242.6	17.6	5.32	2264	2066	2727
1/27/25 16:00	7.94	284	16.1	4.37	14.8	25.1	23.2	41.2	1.39	366	211.2	17.6	4.94	1915	2076	2727
1/27/25 17:00	8.03	284	17.0	4.37	14.8	26.4	24.6	41.2	1.28	365	228.2	17.6	5.05	2065	2095	2726
1/27/25 18:00	8.06	284	18.6	5.62	14.8	31.7	25.5	41.2	1.26	365	229.0	17.6	5.02	2085	2093	2726
1/27/25 19:00	8.01	283	17.4	4.59	14.8	27.6	27.7	41.2	1.31	366	239.0	17.6	4.97	2152	2076	2726

Stack CEMS Data

	North Stack					North Stack SO2			South Stack					South Stack SO2		
						1Hr	3Hr	365Day						1 Hr	3Hr	365Day
	Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected			Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected		
Timestamp	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv
1/27/25 20:00	7.98	284	16.0	4.38	14.9	25.0	28.6	41.2	1.23	366	242.0	17.6	5.07	2185	2060	2726
1/27/25 21:00	8.05	283	15.7	4.32	14.9	24.3	28.1	41.2	1.28	369	239.7	17.4	5.50	2081	2065	2726
1/27/25 22:00	7.97	281	16.0	4.33	15.0	24.9	25.6	41.2	1.25	374	241.3	17.4	5.76	2102	2089	2726
1/27/25 23:00	7.89	280	16.8	4.32	15.0	26.1	24.7	41.2	1.25	374	273.5	17.4	5.48	2394	2152	2726
1/28/25 0:00	7.89	280	16.8	5.49	15.0	28.6	25.1	41.1	1.24	373	261.3	17.5	5.51	2295	2205	2726
1/28/25 1:00	7.87	282	15.8	4.66	15.0	25.2	26.5	41.1	1.26	375	256.6	17.4	5.52	2198	2240	2726
1/28/25 2:00	7.93	285	16.6	4.49	14.9	26.0	26.6	41.1	1.33	372	269.9	17.2	6.07	2276	2209	2725
1/28/25 3:00	8.07	285	17.6	4.48	14.9	27.6	26.6	41.1	1.23	373	258.1	17.4	5.62	2243	2195	2725
1/28/25 4:00	7.97	283	16.9	4.45	14.8	26.3	26.3	41.1	1.34	373	259.1	17.4	6.07	2320	2184	2725
1/28/25 5:00	8.01	285	18.7	4.48	14.7	29.2	26.7	41.1	1.37	372	268.7	17.4	5.95	2439	2231	2725
1/28/25 6:00	8.18	286	20.6	5.51	14.6	34.8	27.7	41.1	1.28	372	246.8	17.5	5.68	2273	2300	2725
1/28/25 7:00	8.23	285	19.5	4.74	14.6	31.3	30.1	41.1	1.36	371	271.0	17.5	5.82	2450	2352	2725
1/28/25 8:00	8.18	281	18.1	4.22	14.7	27.7	31.8	41.1	1.27	369	268.4	17.5	5.65	2413	2392	2725
1/28/25 9:00	7.94	276	18.6	4.18	14.8	28.4	31.3	41.1	1.30	372	268.8	17.5	5.46	2377	2372	2725
1/28/25 10:00	7.76	274	19.0	4.16	14.8	29.1	29.2	41.1	1.26	373	303.2	17.4	5.28	2568	2364	2725
1/28/25 11:00	7.70	275	20.4	4.13	14.9	31.2	28.4	41.1	1.26	373	280.8	17.5	5.08	2430	2386	2725
1/28/25 12:00	7.58	276	20.1	5.53	14.9	34.3	29.6	41.1	1.30	373	302.0	17.5	5.13	2609	2490	2725
1/28/25 13:00	7.52	278	19.3	4.37	14.9	30.1	31.5	41.1	1.25	375	301.2	17.4	5.57	2601	2579	2725
1/28/25 14:00	7.72	279	18.4	4.24	14.9	28.4	31.9	41.1	1.22	373	498.2	17.4	5.46	4298	2729	2725
1/28/25 15:00	7.66	281	18.9	4.26	14.9	29.2	30.9	41.1	1.28	373	409.6	17.5	5.26	3619	3036	2725
1/28/25 16:00	7.79	281	18.9	4.33	14.9	29.3	29.2	41.1	1.26	371	310.6	17.6	5.12	2793	3247	2725
1/28/25 17:00	7.86	279	20.2	4.32	15.0	31.4	29.0	41.1	1.23	371	318.2	17.5	5.35	2771	3220	2725
1/28/25 18:00	7.86	280	20.3	5.52	15.1	34.5	30.0	41.1	1.26	369	291.5	17.5	5.50	2570	3167	2725
1/28/25 19:00	8.02	281	19.2	4.70	15.1	30.7	31.7	41.1	1.28	367	247.0	17.5	5.57	2201	2832	2725
1/28/25 20:00	7.96	279	20.1	4.46	15.0	31.5	32.2	41.1	1.22	371	242.6	17.4	5.73	2132	2617	2725
1/28/25 21:00	7.80	277	21.5	4.29	15.2	33.3	32.3	41.1	1.21	377	264.0	17.4	5.91	2314	2251	2725
1/28/25 22:00	7.64	275	22.0	4.28	15.2	34.2	31.9	41.1	1.29	381	350.5	17.4	5.67	3092	2408	2725
1/28/25 23:00	7.58	277	21.7	4.32	15.2	33.7	33.0	41.1	1.22	380	281.5	17.5	5.54	2492	2583	2725
1/29/25 0:00	7.60	276	22.1	5.18	15.2	36.7	33.8	41.1	1.23	380	259.6	17.4	5.56	2252	2644	2725
1/29/25 1:00	7.50	275	22.3	4.98	15.2	36.6	34.9	41.1	1.26	381	264.8	17.4	5.64	2319	2543	2725
1/29/25 2:00	7.40	275	22.9	4.37	15.2	35.7	35.7	41.1	1.21	383	295.1	17.4	5.88	2596	2473	2725
1/29/25 3:00	7.50	277	22.4	4.40	15.2	35.1	36.3	41.1	1.24	381	295.1	17.4	5.77	2549	2477	2725
1/29/25 4:00	7.59	277	22.8	4.36	15.2	35.7	35.8	41.1	1.23	383	284.0	17.4	5.83	2542	2510	2725
1/29/25 5:00	7.46	276	21.7	4.41	15.2	34.0	35.5	41.1	1.23	383	306.6	17.5	5.49	2728	2519	2725
1/29/25 6:00	7.51	280	22.2	5.20	15.2	37.0	35.0	41.1	1.19	375	259.1	17.5	5.33	2321	2521	2725
1/29/25 7:00	7.79	280	20.6	4.51	15.1	32.6	35.6	41.1	1.21	376	273.6	17.4	5.44	2356	2459	2724
1/29/25 8:00	7.79	282	20.4	4.18	15.1	31.5	34.6	41.1	1.35	371	249.8	17.5	5.28	2192	2369	2724
1/29/25 9:00	7.78	282	21.0	4.26	15.0	32.4	33.7	41.1	1.25	371	234.8	17.4	5.74	2026	2246	2724
1/29/25 10:00	7.75	279	21.4	4.29	15.0	33.1	32.2	41.1	1.30	370	243.9	17.5	5.84	2210	2166	2724
1/29/25 11:00	7.64	281	22.5	4.33	15.0	34.9	32.3	41.1	1.25	371	239.8	17.6	5.40	2189	2151	2724
1/29/25 12:00	7.72	280	23.3	5.70	15.0	40.3	33.5	41.1	1.27	374	268.7	17.6	5.29	2443	2219	2724
1/29/25 13:00	7.65	279	23.0	4.58	14.9	36.4	36.1	41.1	1.32	372	238.9	17.6	5.09	2180	2278	2724
1/29/25 14:00	7.64	282	23.1	4.52	14.8	36.3	37.2	41.1	1.24	369	236.9	17.5	5.64	2182	2275	2724
1/29/25 15:00	7.87	284	22.2	4.53	14.8	34.9	37.7	41.1	1.26	368	231.6	17.6	5.42	2167	2190	2724
1/29/25 16:00	7.98	283	22.3	4.50	14.8	34.9	35.9	41.1	1.37	369	238.6	17.5	5.64	2164	2155	2724
1/29/25 17:00	7.91	279	23.1	4.46	14.9	36.2	35.4	41.1	1.33	364	219.1	17.7	5.06	2079	2130	2723
1/29/25 18:00	7.82	278	23.9	5.95	14.8	42.2	35.4	41.1	1.38	365	240.6	17.6	5.25	2236	2128	2723
1/29/25 19:00	7.82	279	23.8	4.76	14.7	38.1	37.8	41.1	1.34	366	209.3	17.6	5.43	1913	2125	2723
1/29/25 20:00	7.96	276	24.2	4.57	14.7	38.0	38.8	41.1	1.26	371	233.1	17.5	5.92	2175	2129	2723
1/29/25 21:00	7.80	275	23.9	4.55	14.8	37.7	39.4	41.1	1.30	373	259.5	17.4	6.10	2402	2197	2723
1/29/25 22:00	7.82	276	23.3	4.52	14.9	36.6	37.9	41.1	1.27	373	244.1	17.5	5.67	2255	2284	2723
1/29/25 23:00	7.81	275	22.5	4.52	15.0	35.4	37.4	41.1	1.25	373	229.1	17.6	5.50	2119	2338	2723
1/30/25 0:00	7.71	274	22.6	5.81	15.1	39.5	36.6	41.1	1.31	373	232.5	17.6	5.35	2168	2344	2723
1/30/25 1:00	7.67	274	21.8	4.44	15.1	34.3	37.2	41.1	1.30	372	291.1	17.5	5.38	2621	2346	2723
1/30/25 2:00	7.66	274	21.4	4.41	15.2	33.5	36.4	41.1	1.31	372	246.0	17.6	5.29	2211	2430	2723
1/30/25 3:00	7.66	274	21.6	4.41	15.2	33.8	35.8	41.1	1.26	371	256.1	17.5	5.30	2282	2388	2723
1/30/25 4:00	7.63	275	21.8	4.39	15.2	34.1	33.9	41.1	1.26	371	243.4	17.5	5.34	2178	2341	2723
1/30/25 5:00	7.56	275	21.1	4.39	15.2	33.0	33.8	41.1	1.27	372	240.6	17.6	5.32	2188	2251	2722
1/30/25 6:00	7.61	275	21.5	5.84	15.2	37.9	33.6	41.1	1.29	372	248.4	17.5	5.40	2233	2257	2722
1/30/25 7:00	7.66	275	20.0	4.69	15.3	32.3	35.0	41.1	1.28	370	242.6	17.6	5.23	2251	2234	2722
1/30/25 8:00	7.67	278	17.8	4.16	15.4	27.4	34.4	41.1	1.30	368	236.7	17.7	4.89	2151	2195	2722
1/30/25 9:00	7.76	276	17.1	4.15	15.4	26.3	32.5	41.1	1.28	369	245.8	17.6	4.95	2226	2166	2722
1/30/25 10:00	7.69	276	15.6	4.11	15.3	24.0	28.7	41.1	1.26	372	242.1	17.5	5.30	2150	2195	2722
1/30/25 11:00	7.52	271	15.9	4.06	15.4	24.4	25.9	41.1	1.29	375	266.4	17.4	5.47	2322	2223	2722
1/30/25 12:00	7.28	273	15.0	5.38	15.2	25.4	24.9	41.1	1.28	374	245.8	17.5	5.36	2217	2270	2722
1/30/25 13:00	7.28	277	13.9	4.24	15.1	21.5	24.6	41.0	1.31	377	284.4	17.4	5.71	2503	2329	2722
1/30/25 14:00	7.36	282	14.6	4.18	15.3	22.5	23.8	41.0	1.27	378	265.8	17.5	5.59	2419	2421	2722
1/30/25 15:00	7.62	282	14.7	4.21	15.2	22.7	23.2	41.0	1.28	375	259.3	17.5	5.70	2412	2429	2722
1/30/25 16:00	7.60	281	15.8	4.23	15.2	24.5	22.2	41.0	1.24	374	235.4	17.5	5.70	2183	2363	2721
1/30/25 17:00	7.53	276	15.7	4.20	15.2	24.2	23.2	41.0	1.32	377	246.8	17.5	5.77	2249	2249	2721
1/30/25 18:00	7.28	276	16.4	5.17	15.2	27.2	23.8	41.0	1.21	381	253.4	17.4	5.92	2287	2254	2721
1/30/25 19:00	7.43	281	17.2	5.09	15.3	28.4	25.3	41.0	1.29	384	262.6	17.4	6.15	2421	2272	2721
1/30/25 20:00	7.61	278	19.1	4.37	15.1	29.8	26.6	41.0	1.24	385	321.0	17.4	6.10	2942	2376	2721
1/30/25 21:00	7.48	275	17.3	4.26	15.0	26.8	28.5	41.0	1.22	386	336.8	17.4	5.99	3040	2532	2721
1/30/25 22:00	7.37	276	18.4	4.30	15.0	28.5	28.3	41.0	1.25	386	319.0	17.4	5.89	2806	2771	2721
1/30/25 23:00	7.54	276	19.7	4.31	15.1	30.6	28.4	41.0	1.27	384	311.4	17.4	5.75	2709	2857	2721
1/31/25 0:00	7.51	274	20.1	5.00	15.1	32.9	28.6	41.0	1.25	387	343.7	17.4	5.90	3001	2862	2721
1/31/25 1:00	7.30	275	20.8	5.13	15.1	34.3	30.6	41.0	1.28	387	290.9	17.4	5.70	2585	2752	2721
1/31/25 2:00	7.51	279	20.9	4.52	15.2	33.0	32.6	41.0	1.23	387	279.5	17.4	5.53	2425	2682	2721
1/31/25 3:00	7.61	278	21.1	4.39	15.1	32.9	33.4	41.0	1.28	387	272.7	17.3	5.68	2330	2581	2721
1/31/25 4:00	7.57	275	21.1	4.33	15.1	32.8	33.4	41.0	1.20	388	295.5	17.4	5.80	2584	2497	2721
1/31/25 5:00	7.36	274	19.8	4.35	15.1	30.9	32.9	41.0	1.21	390	307.5	17.3	6.02	2604	2513	2721
1/31/25 6:00	7.33	275	21.3	4.93	15.2	34.8	32.2	41.0	1.30	391	322.5	17.3	6.10	2761	2600	2721
1/31/25 7:00	7.34	276	20.0	4.34	15.2	31.2	32.8	41.0	1.22	392	341.9	17.3	6.09	2923	2750	2721
1/31/25 8:00	7.30	277	20.7	4.06	15.2	31.6	32.3	41.0	1.30	391	332.4	17.3	6.00	2870	2860	2721
1/31/25 9:00	7.26	279	19.8	4.10	15.2	30.3	32.5	41.0	1.25	387	318.1	17.3	6.13	2768	2896	2721
1/31/25 10:00	7.36	280	17.2	4.19	15.2	26.6	31.0	41.0	1.29	390	313.9	17.3	6.07	2729	2870	2721
1/31/25 11:00	7.38	280	18.2	4.41	15.2	28.5	29.5	41.0	1.39	389	317.0	17.3	6.20	2778	2831	2721
1/31/25 12:00	7.38	279	20.0	5.82	15.1	35.0	28.4	41.0	1.37	389	316.5	17.3	6.21	2782	2824	2721
1/31/25 13:00	7.38	280	20.2	5.06	15.1	33.3	30.0	41.0	1.39	389	314.0	17.3	6.15	2730	2836	2721
1/31/25 14:00	7.55	280	21.3	4.70	15.1	34.1	32.3	41.0	1.38	387	298.4	17.3	6.04	2614	2837	2721
1/31/25 15:00	7.59	280	20.5	4.73	15.1	32.9	34.2	41.0	1.33	387	286.1	17.4	6.03	2533	2755	2721

Stack CEMS Data

	North Stack					North Stack SO2			South Stack					South Stack SO2		
						1Hr	3Hr	365Day						1 Hr	3Hr	365Day
	Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected			Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected		
Timestamp	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv
1/31/25 16:00	7.68	280	20.1	4.66	15.2	32.0	33.4	41.0	1.32	384	433.2	17.3	6.23	3783	2836	2721
1/31/25 17:00	7.72	279	22.3	4.52	15.2	35.2	33.0	41.0	1.37	387	303.4	17.3	6.08	2627	2898	2721
1/31/25 18:00	7.63	282	22.5	5.57	15.1	38.5	33.4	41.0	1.33	387	298.3	17.4	5.90	2605	2947	2721
1/31/25 19:00	7.84	281	19.3	4.88	15.1	31.3	35.2	41.0	1.35	386	294.8	17.3	5.96	2530	2757	2721
1/31/25 20:00	7.77	283	19.1	4.73	15.2	30.7	35.0	41.0	1.34	385	282.2	17.3	5.93	2458	2630	2721
1/31/25 21:00	7.89	282	20.0	4.69	15.0	32.0	33.5	41.0	1.41	385	293.9	17.3	6.02	2569	2594	2721
1/31/25 22:00	7.80	279	19.8	4.39	15.2	31.0	31.3	41.0	1.40	383	293.0	17.3	5.85	2523	2639	2721
1/31/25 23:00	7.66	278	19.0	4.41	15.2	29.8	31.2	41.0	1.42	379	298.0	17.4	5.76	2651	2634	2721
2/1/25 0:00	7.81	278	21.0	5.46	15.0	35.7	30.9	41.0	1.41	374	292.4	17.5	5.55	2650	2653	2721
2/1/25 1:00	7.86	275	20.1	4.85	15.0	32.5	32.2	41.0	1.46	371	354.1	17.5	5.35	3100	2750	2721
2/1/25 2:00	7.77	274	20.1	4.36	15.0	31.3	32.7	41.0	1.41	365	354.3	17.5	5.15	3101	2991	2721
2/1/25 3:00	7.83	273	19.9	4.32	15.0	30.9	33.2	41.0	1.45	364	375.6	17.5	5.27	3281	3230	2722
2/1/25 4:00	7.79	272	19.0	4.50	15.2	30.0	31.5	41.0	1.44	365	379.7	17.4	5.37	3288	3358	2722
2/1/25 5:00	7.72	270	22.2	4.34	15.1	34.6	30.7	41.0	1.40	368	390.3	17.4	5.37	3300	3403	2722
2/1/25 6:00	7.51	272	24.2	5.69	15.2	41.9	31.8	41.0	1.37	368	269.9	17.4	5.34	2319	3163	2722
2/1/25 7:00	7.53	275	19.7	4.76	15.2	32.1	35.5	41.0	1.43	368	261.5	17.4	5.46	2237	2802	2722
2/1/25 8:00	7.52	278	14.0	4.25	15.1	21.7	36.2	41.0	1.38	370	267.7	17.4	5.35	2231	2392	2722
2/1/25 9:00	7.57	281	15.8	4.53	15.1	25.0	31.9	41.0	1.41	369	273.6	17.5	5.36	2396	2267	2722
2/1/25 10:00	7.65	280	17.9	4.36	15.2	27.9	26.3	41.0	1.51	368	265.6	17.4	5.30	2288	2264	2722
2/1/25 11:00	7.46	282	16.9	4.49	15.2	26.7	24.9	41.0	1.46	369	260.1	17.5	5.21	2262	2288	2721
2/1/25 12:00	7.63	284	19.3	5.36	14.9	32.5	26.5	41.0	1.39	371	249.4	17.5	5.19	2151	2300	2721
2/1/25 13:00	7.75	283	18.1	5.65	14.6	31.0	29.0	41.0	1.37	373	269.5	17.4	5.33	2285	2318	2721
2/1/25 14:00	7.81	278	18.2	4.79	14.9	29.2	30.1	40.9	1.29	374	269.1	17.4	5.29	2311	2317	2721
2/1/25 15:00	7.42	274	17.0	4.47	14.9	26.7	30.9	40.9	1.35	380	312.9	17.3	5.54	2635	2384	2721
2/1/25 16:00	7.34	275	16.8	4.47	15.0	26.3	29.0	40.9	1.34	381	275.1	17.4	5.40	2343	2453	2721
2/1/25 17:00	7.29	278	16.9	4.35	15.2	26.3	27.4	40.9	1.27	381	265.0	17.5	5.43	2337	2508	2721
2/1/25 18:00	7.50	280	14.0	5.04	15.1	22.9	26.5	40.9	1.29	381	300.1	17.5	5.54	2654	2488	2721
2/1/25 19:00	7.54	280	17.3	5.24	15.0	28.9	25.2	40.9	1.35	375	279.5	17.5	5.28	2448	2478	2721
2/1/25 20:00	7.57	281	18.6	5.02	15.0	30.4	26.1	40.9	1.38	372	256.3	17.5	5.13	2252	2549	2721
2/1/25 21:00	7.71	280	21.1	4.73	15.0	33.9	27.4	40.9	1.38	372	253.6	17.5	5.24	2224	2557	2721
2/1/25 22:00	7.78	276	20.0	4.54	15.0	31.6	31.1	40.9	1.41	373	328.9	17.4	5.53	2830	2533	2721
2/1/25 23:00	7.70	276	17.2	4.36	15.1	26.8	32.0	40.9	1.40	373	275.5	17.4	5.42	2396	2448	2721
2/2/25 0:00	7.71	275	18.0	4.86	15.1	29.1	30.8	40.9	1.46	372	274.4	17.5	5.37	2392	2399	2721
2/2/25 1:00	7.57	276	17.8	4.95	15.1	29.1	29.2	40.9	1.31	374	275.6	17.4	5.34	2315	2368	2721
2/2/25 2:00	7.68	277	15.5	4.82	15.1	25.1	28.3	40.9	1.35	375	265.1	17.4	5.39	2253	2350	2721
2/2/25 3:00	7.56	276	19.9	4.64	15.1	31.7	27.7	40.9	1.30	382	277.2	17.3	5.67	2363	2379	2721
2/2/25 4:00	7.59	280	21.7	4.81	15.0	34.9	28.6	40.9	1.35	379	244.1	17.5	5.44	2136	2377	2720
2/2/25 5:00	7.83	278	23.4	4.87	15.0	37.9	30.5	40.9	1.34	374	251.0	17.4	5.43	2182	2346	2720
2/2/25 6:00	7.69	280	24.4	5.48	14.9	41.3	34.8	40.9	1.26	375	255.9	17.4	5.36	2171	2279	2720
2/2/25 7:00	7.89	279	21.8	4.93	15.0	35.7	38.0	40.9	1.32	377	251.8	17.4	5.49	2156	2229	2720
2/2/25 8:00	7.88	278	18.7	4.56	15.1	29.6	38.3	40.9	1.32	380	280.8	17.3	5.60	2365	2239	2720
2/2/25 9:00	7.89	274	17.9	4.47	15.2	28.1	35.6	40.9	1.34	382	297.0	17.3	5.69	2541	2345	2720
2/2/25 10:00	7.55	274	17.2	4.46	15.2	27.1	31.2	40.9	1.24	386	332.9	17.3	5.78	2858	2555	2720
2/2/25 11:00	7.52	273	17.2	4.39	15.2	26.9	28.3	40.9	1.30	388	376.7	17.3	5.80	3152	2744	2720
2/2/25 12:00	7.37	276	20.0	5.45	15.1	34.0	27.4	40.9	1.29	389	354.9	17.3	5.69	3004	2877	2720
2/2/25 13:00	7.45	279	16.9	4.75	15.2	27.2	29.3	40.9	1.30	389	399.9	17.3	5.64	3377	2976	2720
2/2/25 14:00	7.47	281	16.4	4.23	15.3	25.4	29.4	40.9	1.24	390	346.0	17.3	5.71	2945	3075	2720
2/2/25 15:00	7.48	281	15.9	4.22	15.3	24.6	28.9	40.9	1.28	386	358.2	17.3	5.86	3031	3169	2720
2/2/25 16:00	7.61	280	16.0	4.19	15.4	24.8	25.8	40.9	1.27	389	384.6	17.3	6.10	3277	3213	2721
2/2/25 17:00	7.43	280	16.1	4.23	15.4	24.9	25.0	40.9	1.22	391	384.8	17.3	6.04	3334	3248	2721
2/2/25 18:00	7.51	280	21.0	4.93	15.3	34.4	24.8	40.9	1.25	390	422.9	17.3	6.01	3611	3296	2721
2/2/25 19:00	7.55	278	19.1	4.96	15.5	31.4	28.0	40.9	1.25	390	420.3	17.3	5.97	3541	3386	2721
2/2/25 20:00	7.33	279	20.8	4.51	15.5	33.0	30.2	40.9	1.24	389	487.5	17.3	5.76	4162	3565	2721
2/2/25 21:00	7.49	281	24.1	4.59	15.9	38.8	32.9	40.9	1.22	389	432.0	17.3	5.67	3612	3733	2721
2/2/25 22:00	7.71	277	24.7	4.47	16.0	39.3	34.4	40.9	1.25	388	408.3	17.3	5.83	3483	3737	2721
2/2/25 23:00	7.54	277	23.8	4.47	15.8	37.8	37.0	40.9	1.27	387	415.7	17.3	5.76	3549	3666	2722
2/3/25 0:00	7.75	276	26.3	4.97	15.8	43.4	38.6	40.9	1.28	385	395.6	17.4	5.53	3393	3517	2722
2/3/25 1:00	7.69	276	24.9	5.06	15.7	41.3	40.2	40.9	1.25	384	381.2	17.4	5.49	3273	3486	2722
2/3/25 2:00	7.72	273	24.5	4.83	15.8	40.1	40.9	40.9	1.25	384	394.3	17.3	5.59	3332	3410	2722
2/3/25 3:00	7.49	271	25.3	4.36	15.8	39.8	41.6	40.9	1.29	385	391.2	17.4	5.53	3326	3433	2722
2/3/25 4:00	7.42	271	25.8	4.33	15.9	40.7	40.4	40.9	1.24	385	406.4	17.3	5.68	3420	3451	2722
2/3/25 5:00	7.34	274	25.5	4.30	15.8	40.1	40.2	40.9	1.27	386	397.1	17.4	5.67	3396	3484	2722
2/3/25 6:00	7.37	276	25.3	4.87	15.7	41.4	40.2	40.9	1.24	388	391.2	17.3	5.70	3277	3462	2723
2/3/25 7:00	7.37	279	21.1	4.29	15.7	33.2	40.7	40.9	1.26	390	401.5	17.3	5.80	3421	3486	2723
2/3/25 8:00	7.49	281	19.2	4.00	15.6	29.4	38.2	40.9	1.26	389	408.1	17.3	5.92	3456	3516	2723
2/3/25 9:00	7.59	279	19.5	3.99	15.7	29.9	34.7	40.9	1.26	389	408.9	17.3	6.04	3475	3528	2723
2/3/25 10:00	7.41	278	19.6	4.01	15.6	30.0	30.8	40.9	1.21	390	420.5	17.3	6.13	3596	3537	2723
2/3/25 11:00	7.40	279	18.6	4.05	15.7	28.5	29.8	40.9	1.21	390	398.9	17.3	5.96	3435	3535	2723
2/3/25 12:00	7.47	282	20.2	5.46	15.5	34.7	29.5	40.9	1.26	391	429.6	17.3	5.93	3609	3596	2724
2/3/25 13:00	7.65	282	16.2	4.39	15.6	25.5	31.1	40.9	1.37	384	394.9	18.4	5.88	5963	3745	2724
2/3/25 14:00	7.54	278	16.1	4.27	15.6	25.1	29.6	40.9	0.95	220	619.5	18.4	5.10	8682	5824	2725
2/3/25 15:00	7.42	278	18.8	4.40	15.6	29.7	28.4	40.9	1.23	272	529.0	17.4	6.36	5011	6708	2726
2/3/25 16:00	7.45	281	21.6	4.54	15.5	34.3	26.7	40.9	1.30	251	597.5	17.0	6.55	4696	7326	2726
2/3/25 17:00	7.68	279	22.0	4.60	15.6	35.2	29.7	40.9	1.25	337	447.2	17.3	6.17	3867	5458	2727
2/3/25 18:00	7.47	280	23.0	5.80	15.2	40.4	33.0	40.9	1.27	355	419.3	17.3	5.98	3656	4557	2727
2/3/25 19:00	7.75	284	23.2	5.55	15.2	39.8	36.6	40.9	1.24	363	368.1	17.4	5.92	3286	3769	2727
2/3/25 20:00	7.82	285	23.9	4.91	15.2	38.9	38.4	40.9	1.21	363	355.3	17.4	5.93	3226	3527	2727
2/3/25 21:00	7.98	283	25.5	4.76	15.1	41.1	39.7	40.9	1.22	368	371.6	17.5	6.07	3434	3481	2727
2/3/25 22:00	7.68	274	28.1	4.43	15.6	44.4	39.9	40.9	1.22	369	398.3	17.4	6.14	3571	3478	2728
2/3/25 23:00	7.32	272	27.6	4.39	15.5	43.4	41.5	40.9	1.21	370	422.2	17.4	5.95	3848	3563	2728
2/4/25 0:00	7.24	274	28.7	5.25	15.4	48.2	43.0	40.9	1.26	370	396.7	17.4	5.81	3529	3611	2728
2/4/25 1:00	7.36	278	28.1	5.14	15.4	46.8	45.3	40.9	1.32	368	381.6	17.5	5.77	3452	3640	2728
2/4/25 2:00	7.51	278	30.4	4.45	15.3	47.8	46.1	40.9	1.33	364	376.9	17.5	5.79	3450	3538	2728
2/4/25 3:00	7.53	277	30.7	4.45	15.3	48.4	47.6	40.9	1.30	362	353.0	17.5	5.70	3263	3492	2728
2/4/25 4:00	7.53	276	30.7	4.42	15.2	48.2	47.7	40.9	1.26	363	357.1	17.5	5.68	3268	3438	2728
2/4/25 5:00	7.48	274	31.4	4.40	15.2	49.1	48.1	40.9	1.27	364	382.9	17.5	5.73	3446	3423	2729
2/4/25 6:00	7.42	276	30.9	5.25	15.2	51.7	48.6	40.9	1.24	364	344.2	17.6	5.36	3187	3405	2729
2/4/25 7:00	7.53	276	27.0	4.43	15.3	42.7	49.7	40.9	1.26	364	380.5	17.5	5.70	3462	3377	2729
2/4/25 8:00	7.42	277	24.0	4.09	15.1	36.7	47.8	40.9	1.22	366	360.5	17.5	5.43	3213	3391	2729
2/4/25 9:00	7.64	280	23.0	4.07	15.1	35.2	43.7	40.9	1.23	362	336.8	17.6	5.25	3087	3320	2729
2/4/25 10:00	7.66	280	22.9	4.11	15.1	35.0	38.2	40.9	1.21	362	341.6	17.6	5.12	3060	3251	2729
2/4/25 11:00	7.71	280	23.0	4.15	15.0	35.3	35.6	40.9	1.32	359	342.7	17.5	5.58	3083	3134	2729

Stack CEMS Data

	North Stack					North Stack SO2			South Stack					South Stack SO2		
						1Hr	3Hr	365Day						1 Hr	3Hr	365Day
	Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected			Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected		
Timestamp	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv
2/4/25 12:00	7.67	276	24.4	5.59	15.0	41.9	35.2	40.9	1.31	359	359.6	17.5	5.48	3215	3074	2729
2/4/25 13:00	7.45	273	23.7	4.32	15.0	36.9	37.4	40.9	1.25	360	352.5	17.5	5.66	3218	3097	2729
2/4/25 14:00	7.36	276	23.5	4.25	15.0	36.3	38.0	40.9	1.37	359	318.0	17.5	5.63	2909	3101	2729
2/4/25 15:00	7.52	276	24.0	4.24	15.0	37.0	38.4	40.9	1.34	360	354.8	17.5	5.63	3252	3202	2729
2/4/25 16:00	7.41	276	23.8	4.26	15.0	36.7	36.7	40.9	1.26	357	309.9	17.5	5.52	2813	3198	2730
2/4/25 17:00	7.50	279	23.8	4.29	15.0	36.8	36.7	40.9	1.36	357	331.8	17.6	5.46	3061	3176	2730
2/4/25 18:00	7.70	279	25.4	5.64	15.0	43.7	36.8	40.9	1.26	356	305.1	17.7	5.23	2861	3087	2730
2/4/25 19:00	7.70	276	25.8	4.52	15.1	40.7	39.1	40.9	1.34	354	281.8	17.6	5.19	2615	2919	2730
2/4/25 20:00	7.60	276	26.2	4.31	15.2	40.8	40.4	40.9	1.24	353	260.7	17.6	5.25	2401	2773	2730
2/4/25 21:00	7.65	274	27.0	4.26	15.2	41.8	41.8	40.9	1.32	353	264.9	17.6	5.44	2419	2571	2730
2/4/25 22:00	7.55	276	26.5	4.46	15.2	41.6	41.1	40.9	1.31	355	318.2	17.6	5.34	2898	2638	2730
2/4/25 23:00	7.75	274	26.7	4.23	15.2	41.3	41.4	40.9	1.26	353	250.2	17.7	5.13	2351	2586	2730
2/5/25 0:00	7.57	275	27.1	5.68	15.2	47.0	41.6	40.9	1.27	351	234.9	17.7	5.09	2174	2513	2729
2/5/25 1:00	7.68	274	26.7	4.25	15.2	41.4	43.3	40.9	1.28	350	229.8	17.7	4.98	2124	2250	2729
2/5/25 2:00	7.51	274	26.1	4.17	15.2	40.2	43.2	40.9	1.28	350	230.7	17.7	4.84	2119	2183	2729
2/5/25 3:00	7.45	274	26.4	4.15	15.3	40.7	42.8	40.9	1.27	351	252.8	17.6	5.07	2297	2158	2729
2/5/25 4:00	7.45	279	25.9	4.20	15.2	39.9	40.8	40.9	1.26	351	224.1	17.6	5.03	2039	2178	2729
2/5/25 5:00	7.67	280	25.3	4.21	15.2	39.0	40.3	40.9	1.28	350	228.4	17.7	4.91	2124	2150	2729
2/5/25 6:00	7.70	278	25.8	5.66	15.2	44.7	39.9	40.9	1.27	350	226.0	17.7	5.06	2081	2127	2729
2/5/25 7:00	7.62	274	24.3	4.62	15.3	38.9	41.2	40.9	1.28	350	221.4	17.6	5.06	1975	2073	2729
2/5/25 8:00	7.53	275	23.2	4.08	15.3	35.6	40.9	40.9	1.24	351	233.1	17.6	5.13	2066	2048	2729
2/5/25 9:00	7.47	276	23.2	4.09	15.2	35.5	39.7	40.9	1.30	354	233.7	17.4	5.61	2054	2092	2728
2/5/25 10:00	7.36	277	18.9	4.26	15.2	29.3	36.6	40.9	1.37	354	288.8	17.6	5.46	2645	2302	2728
2/5/25 11:00	7.37	279	8.6	4.47	15.5	13.6	33.5	40.9	1.37	356	264.5	17.5	5.58	2358	2416	2728
2/5/25 12:00	7.44	281	7.6	5.64	15.3	13.1	26.1	40.9	1.25	362	334.6	17.4	5.84	3012	2599	2728
2/5/25 13:00	7.51	278	13.3	5.07	15.2	22.1	18.7	40.8	1.28	364	257.0	17.6	5.52	2388	2525	2728
2/5/25 14:00	7.44	278	2.1	4.56	15.6	3.4	16.3	40.8	1.24	364	269.2	17.5	5.58	2456	2605	2728
2/5/25 15:00	7.44	276	2.8	4.56	15.6	4.5	12.9	40.8	1.35	365	263.0	17.6	5.51	2452	2565	2728
2/5/25 16:00	7.47	277	3.6	4.60	15.6	5.8	10.0	40.8	1.25	364	290.7	17.6	5.49	2670	2731	2728
2/5/25 17:00	7.56	277	7.3	4.59	15.4	11.6	4.6	40.8	1.24	365	256.8	17.6	5.51	2381	2799	2728
2/5/25 18:00	7.67	278	15.6	5.57	15.2	26.9	7.3	40.8	1.20	364	294.4	17.6	5.53	2738	2830	2728
2/5/25 19:00	7.72	273	22.7	5.14	15.1	37.4	14.8	40.8	1.24	367	288.3	17.5	5.86	2635	2696	2728
2/5/25 20:00	7.57	272	17.2	4.61	15.2	27.4	25.3	40.8	1.23	367	265.1	17.5	5.66	2452	2556	2728
2/5/25 21:00	7.54	273	19.1	4.90	15.1	31.1	30.6	40.8	1.26	367	260.6	17.6	5.65	2429	2447	2728
2/5/25 22:00	7.68	275	20.1	4.96	15.0	32.7	32.0	40.8	1.26	363	282.3	17.5	5.57	2586	2438	2728
2/5/25 23:00	7.70	274	21.0	5.07	14.9	34.5	30.4	40.8	1.23	363	260.4	17.5	5.61	2358	2427	2728
2/6/25 0:00	7.78	281	20.5	6.19	14.8	36.8	32.8	40.8	1.24	363	242.5	17.5	5.64	2213	2370	2728
2/6/25 1:00	8.01	282	20.0	5.52	15.1	34.3	34.6	40.8	1.29	362	245.3	17.5	5.65	2217	2254	2728
2/6/25 2:00	7.92	282	20.7	4.92	15.1	33.6	35.2	40.8	1.35	361	246.6	17.5	5.64	2249	2237	2728
2/6/25 3:00	7.91	278	21.7	4.89	15.2	35.3	34.9	40.8	1.29	363	229.0	17.5	5.60	2034	2195	2728
2/6/25 4:00	7.64	277	22.4	4.88	15.2	36.3	34.4	40.8	1.21	366	313.6	17.5	5.60	2814	2365	2728
2/6/25 5:00	7.63	274	22.9	4.85	15.3	37.1	35.1	40.8	1.25	366	239.6	17.4	5.64	2123	2366	2728
2/6/25 6:00	7.58	275	22.5	5.54	15.3	38.6	36.2	40.8	1.23	366	366.5	17.3	5.93	3189	2860	2728
2/6/25 7:00	7.63	275	18.7	4.69	15.4	30.2	37.3	40.8	1.26	367	572.5	17.3	6.00	5018	3266	2728
2/6/25 8:00	7.60	275	16.8	4.26	15.5	26.2	35.3	40.8	1.20	372	251.2	17.4	6.05	2239	3652	2728
2/6/25 9:00	7.59	274	17.4	4.22	15.5	27.0	31.6	40.8	1.21	371	353.8	17.4	5.97	3165	3731	2728
2/6/25 10:00	7.45	273	17.2	4.21	15.6	26.8	27.8	40.8	1.20	375	288.8	17.3	6.06	2529	3349	2728
2/6/25 11:00	7.42	273	16.1	4.20	15.6	25.0	26.7	40.8	1.22	374	345.1	17.3	6.13	2985	3070	2728
2/6/25 12:00	7.37	277	22.0	5.54	15.5	38.0	26.2	40.8	1.25	370	322.3	17.4	5.79	2785	2746	2728
2/6/25 13:00	7.51	277	20.2	4.46	15.5	31.9	29.9	40.8	1.21	368	374.6	17.5	5.48	3336	2939	2728
2/6/25 14:00	7.41	279	19.6	4.33	15.5	30.7	31.6	40.8	1.23	365	412.1	17.5	5.27	3633	3129	2729
2/6/25 15:00	7.69	281	18.7	4.39	15.4	29.4	33.5	40.8	1.25	362	313.6	17.6	5.11	2828	3284	2729
2/6/25 16:00	7.74	279	20.5	4.37	15.4	32.2	30.7	40.8	1.23	363	333.1	17.4	5.35	2847	3105	2729
2/6/25 17:00	7.69	276	22.0	4.35	15.5	34.5	30.8	40.8	1.19	363	279.4	17.5	5.29	2452	2913	2729
2/6/25 18:00	7.56	275	24.0	5.48	15.5	41.1	32.0	40.8	1.17	362	389.0	17.5	5.43	3450	2707	2729
2/6/25 19:00	7.55	274	22.6	4.70	15.5	36.4	35.9	40.8	1.20	360	356.6	17.5	5.24	3162	2788	2729
2/6/25 20:00	7.61	277	22.2	4.42	15.5	35.0	37.3	40.8	1.22	358	307.8	17.5	5.17	2703	2839	2729
2/6/25 21:00	7.69	278	22.2	4.43	15.5	35.0	37.5	40.8	1.20	361	360.2	17.4	5.46	3123	2886	2729
2/6/25 22:00	7.73	278	21.0	4.46	15.4	33.1	35.5	40.8	1.28	361	365.3	17.5	5.48	3222	2818	2729
2/6/25 23:00	7.75	282	20.4	4.76	15.2	32.9	34.4	40.8	1.16	359	540.9	17.5	5.30	4720	3201	2729
2/7/25 0:00	8.04	283	19.9	5.87	15.0	34.9	33.6	40.8	1.24	356	315.8	17.6	5.07	2891	3494	2729
2/7/25 1:00	8.03	280	20.5	5.14	15.0	33.9	33.6	40.8	1.29	351	774.7	17.8	4.64	7218	4237	2730
2/7/25 2:00	8.01	280	21.4	4.47	15.2	33.8	33.9	40.8	1.21	346	275.8	17.7	4.47	2432	4178	2730
2/7/25 3:00	7.91	279	22.2	4.45	15.3	35.0	34.2	40.8	1.28	347	252.6	17.7	4.59	2256	3923	2730
2/7/25 4:00	7.88	278	22.4	4.48	15.3	35.3	34.2	40.8	1.24	349	228.4	17.5	5.32	1978	2956	2730
2/7/25 5:00	7.84	278	22.3	4.56	15.2	35.3	34.7	40.8	1.20	351	371.3	17.6	5.27	3329	2489	2730
2/7/25 6:00	7.92	277	23.9	5.62	15.1	41.2	35.2	40.8	1.25	352	770.5	17.5	4.99	6518	2498	2730
2/7/25 7:00	7.93	274	18.2	4.69	15.2	29.4	37.3	40.8	1.31	350	354.2	17.7	4.77	3177	4195	2731
2/7/25 8:00	7.86	277	15.4	4.24	15.1	23.8	35.3	40.8	1.21	349	749.5	17.5	4.91	6475	4476	2731
2/7/25 9:00	7.96	276	16.3	4.24	15.2	25.1	31.5	40.8	1.22	351	625.9	17.5	4.99	5377	5480	2731
2/7/25 10:00	7.81	274	16.6	4.24	15.2	25.8	26.1	40.8	1.26	352	531.5	17.5	5.05	4618	4752	2732
2/7/25 11:00	7.79	278	15.7	4.29	15.2	24.3	24.9	40.8	1.30	351	530.4	17.7	4.92	4869	5220	2732
2/7/25 12:00	7.89	280	16.0	5.56	15.2	27.4	25.1	40.8	1.27	350	443.3	17.7	4.71	3958	4712	2732
2/7/25 13:00	7.94	277	16.2	4.74	15.3	26.0	25.8	40.8	1.26	350	292.9	17.8	4.63	2722	4165	2732
2/7/25 14:00	7.67	274	19.4	4.39	15.3	30.5	25.9	40.7	1.23	349	249.0	17.7	4.78	2259	3443	2732
2/7/25 15:00	7.58	272	18.4	4.38	15.3	28.8	28.0	40.7	1.27	351	246.7	17.6	4.97	2238	2679	2732
2/7/25 16:00	7.61	275	18.7	4.41	15.3	29.3	28.4	40.7	1.25	353	261.4	17.6	5.14	2337	2312	2732
2/7/25 17:00	7.77	276	18.2	4.41	15.3	28.5	29.5	40.7	1.26	352	247.4	17.6	5.14	2276	2245	2732
2/7/25 18:00	7.81	275	18.7	5.51	15.3	32.0	28.9	40.7	1.23	352	233.1	17.6	5.38	2130	2228	2732
2/7/25 19:00	7.77	275	19.1	4.93	15.4	31.2	29.9	40.7	1.31	354	258.5	17.5	5.77	2348	2188	2732
2/7/25 20:00	7.77	274	19.4	4.40	15.5	30.5	30.6	40.7	1.27	354	264.8	17.6	5.63	2476	2206	2732
2/7/25 21:00	7.71	272	19.2	4.45	15.6	30.3	31.2	40.7	1.27	355	262.8	17.4	5.82	2334	2289	2732
2/7/25 22:00	7.74	274	18.4	4.50	15.3	29.0	30.7	40.7	1.27	355	295.3	17.5	5.93	2695	2354	2732
2/7/25 23:00	7.77	273	18.2	4.36	15.4	28.5	30.0	40.7	1.28	355	254.9	17.4	6.15	2282	2409	2732
2/8/25 0:00	7.62	271	18.9	5.49	15.5	32.4	29.3	40.7	1.23	355	252.6	17.6	5.70	2392	2426	2732
2/8/25 1:00	7.49	275	18.3	4.73	15.4	29.6	30.0	40.7	1.25	354	247.2	17.5	5.95	2258	2459	2732
2/8/25 2:00	7.76	277	18.5	4.34	15.4	28.9	30.2	40.7	1.25	353	373.3	17.6	5.63	3541	2723	2732
2/8/25 3:00	7.72	278	18.5	4.33	15.3	29.0	30.3	40.7	1.29	354	289.2	17.6	5.42	2680	3347	2732
2/8/25 4:00	7.79	275	18.0	4.28	15.4	28.0	29.2	40.7	1.21	354	248.1	17.6	5.33	2333	3348	2732
2/8/25 5:00	7.54	273	18.7	4.27	15.4	29.0	28.6	40.7	1.25	355	258.7	17.6	5.48	2372	3062	2732
2/8/25 6:00	7.49	276	19.2	5.38	15.3	32.5	28.7	40.7	1.25	358	271.5	17.5	5.59	2451	2472	2732
2/8/25 7:00	7.59	277	19.0	4.54	15.3	30.3	29.9	40.7	1.25	358	273.6	17.6	5.55	2541	2473	2732

Stack CEMS Data

	North Stack					North Stack SO2			South Stack					South Stack SO2		
						1Hr	3Hr	365Day						1 Hr	3Hr	365Day
	Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected			Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected		
Timestamp	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv
2/8/25 8:00	7.52	277	17.7	4.15	15.3	27.2	30.6	40.7	1.20	359	262.0	17.3	6.03	2226	2455	2732
2/8/25 9:00	7.41	278	16.8	4.17	15.3	26.0	30.0	40.7	1.24	362	295.1	17.2	6.26	2507	2386	2732
2/8/25 10:00	7.39	279	18.4	4.17	15.3	28.4	27.8	40.7	1.26	365	314.7	17.4	6.01	2794	2467	2732
2/8/25 11:00	7.39	280	17.6	4.18	15.3	27.2	27.2	40.7	1.22	367	346.1	17.4	6.25	3229	2729	2732
2/8/25 12:00	7.42	281	18.8	5.25	15.3	31.5	27.2	40.7	1.22	368	363.2	17.4	6.39	3370	3007	2732
2/8/25 13:00	7.40	281	17.8	4.82	15.3	28.9	29.0	40.7	1.22	370	334.4	17.4	6.27	3100	3164	2732
2/8/25 14:00	7.41	281	17.4	4.27	15.3	27.0	29.2	40.7	1.20	371	327.0	17.5	6.09	3068	3149	2732
2/8/25 15:00	7.42	281	17.3	4.31	15.3	26.9	29.1	40.7	1.22	370	301.3	17.5	6.02	2798	3088	2732
2/8/25 16:00	7.53	282	17.3	4.38	15.3	27.1	27.6	40.7	1.20	370	297.9	17.5	6.02	2772	2958	2732
2/8/25 17:00	7.66	280	16.9	4.46	15.3	26.6	27.0	40.7	1.38	364	294.3	17.5	5.85	2694	2836	2732
2/8/25 18:00	7.65	278	18.8	5.27	15.3	31.4	26.8	40.7	1.26	365	312.5	17.4	5.88	2831	2754	2732
2/8/25 19:00	7.74	279	18.9	5.64	15.1	32.6	28.4	40.7	1.31	366	263.8	17.5	5.82	2447	2699	2732
2/8/25 20:00	7.85	282	19.0	5.16	15.2	31.6	30.2	40.7	1.29	349	272.5	17.5	5.95	2511	2810	2732
2/8/25 21:00	8.12	284	19.9	4.90	15.1	32.3	31.9	40.7	1.27	316	252.3	18.5	5.33	3786	2865	2732
2/8/25 22:00	8.09	281	18.8	4.63	15.3	30.1	32.2	40.7	1.22	277	289.3	18.5	4.67	3880	2991	2732
2/8/25 23:00	7.93	278	22.8	4.87	15.4	37.2	31.3	40.7	1.03	202	256.2	18.8	4.25	4187	3126	2732
2/9/25 0:00	7.71	274	27.8	5.55	15.4	47.8	33.2	40.7	1.36	327	271.6	17.2	5.95	2252	3345	2732
2/9/25 1:00	7.62	272	28.0	5.50	15.4	47.9	38.4	40.7	1.41	366	220.9	17.4	5.70	1946	3009	2732
2/9/25 2:00	7.55	275	27.1	4.93	15.3	44.3	44.3	40.7	1.36	378	228.4	17.4	5.64	1981	2500	2732
2/9/25 3:00	7.74	276	26.2	4.53	15.3	41.5	46.7	40.7	1.38	382	216.9	17.5	5.51	1944	2018	2732
2/9/25 4:00	7.74	276	25.5	4.47	15.3	40.2	44.6	40.7	1.32	384	228.3	17.5	5.47	2011	2040	2732
2/9/25 5:00	7.74	275	25.0	4.43	15.3	39.3	42.0	40.7	1.33	388	235.7	17.4	5.70	2091	2102	2732
2/9/25 6:00	7.73	275	26.9	5.00	15.3	44.2	40.3	40.7	1.44	389	239.4	17.4	5.73	2136	2121	2732
2/9/25 7:00	7.69	271	18.6	4.37	15.4	29.3	41.2	40.7	1.26	393	255.7	17.4	5.67	2196	2207	2732
2/9/25 8:00	7.39	274	16.3	4.11	15.4	25.0	37.6	40.7	1.33	393	239.0	17.4	5.40	2072	2252	2732
2/9/25 9:00	7.56	277	15.3	4.09	15.4	23.6	32.8	40.7	1.29	393	255.6	17.4	5.57	2177	2289	2731
2/9/25 10:00	7.55	280	15.6	4.07	15.4	24.0	26.0	40.7	1.30	393	253.8	17.4	5.51	2188	2256	2731
2/9/25 11:00	7.52	283	15.0	4.12	15.4	23.2	24.2	40.7	1.33	395	255.2	17.4	5.34	2184	2290	2731
2/9/25 12:00	7.63	284	17.2	5.32	15.3	29.0	23.6	40.7	1.27	393	268.5	17.5	5.22	2355	2293	2731
2/9/25 13:00	7.55	284	16.5	4.72	15.3	26.5	25.4	40.7	1.34	391	254.5	17.5	5.03	2203	2346	2731
2/9/25 14:00	7.80	284	16.7	4.37	15.3	26.1	26.2	40.7	1.29	388	230.3	17.6	4.84	1997	2283	2731
2/9/25 15:00	7.89	282	16.9	4.41	15.3	26.6	27.2	40.7	1.24	388	240.2	17.5	4.90	2050	2276	2731
2/9/25 16:00	7.94	280	17.3	4.40	15.3	27.2	26.4	40.7	1.30	387	244.5	17.6	4.91	2127	2219	2731
2/9/25 17:00	7.90	276	17.3	4.36	15.3	27.1	26.6	40.7	1.29	387	252.9	17.5	4.97	2198	2205	2731
2/9/25 18:00	7.73	274	17.9	5.23	15.3	30.0	27.0	40.7	1.30	387	236.7	17.5	5.03	2022	2160	2731
2/9/25 19:00	7.74	278	16.9	5.31	15.2	28.5	28.1	40.7	1.33	388	240.3	17.5	5.00	2100	2149	2731
2/9/25 20:00	8.02	277	17.4	4.63	15.0	27.6	28.5	40.6	1.36	387	257.6	17.5	5.03	2182	2182	2730
2/9/25 21:00	7.97	278	17.9	4.63	15.0	28.4	28.7	40.6	1.36	389	310.8	17.5	4.93	2641	2490	2730
2/9/25 22:00	8.09	278	16.7	4.51	15.1	26.3	28.2	40.6	1.33	388	253.8	17.5	5.13	2163	2523	2730
2/9/25 23:00	8.04	276	17.3	4.37	15.3	27.0	27.4	40.6	1.33	386	244.2	17.5	5.05	2076	2479	2730
2/10/25 0:00	7.94	273	18.0	5.33	15.3	30.3	27.2	40.6	1.33	386	264.7	17.4	5.21	2263	2155	2730
2/10/25 1:00	7.68	271	18.1	4.85	15.3	29.5	27.9	40.6	1.37	387	235.5	17.5	5.18	2031	2108	2730
2/10/25 2:00	7.59	271	18.5	4.26	15.4	28.7	29.0	40.6	1.31	389	261.6	17.4	5.47	2230	2119	2730
2/10/25 3:00	7.52	275	18.5	4.26	15.4	28.7	29.5	40.6	1.33	388	255.7	17.4	5.40	2193	2160	2730
2/10/25 4:00	7.60	277	18.5	4.24	15.3	28.6	29.0	40.6	1.34	389	255.3	17.4	5.57	2233	2204	2730
2/10/25 5:00	7.57	278	18.3	4.24	15.3	28.4	28.7	40.6	1.29	389	250.8	17.4	5.25	2147	2231	2730
2/10/25 6:00	7.51	280	18.6	5.29	15.3	31.2	28.6	40.6	1.41	389	258.7	17.5	5.23	2219	2245	2730
2/10/25 7:00	7.64	281	18.3	4.43	15.3	28.9	29.4	40.6	1.30	389	265.7	17.4	5.38	2294	2248	2729
2/10/25 8:00	7.56	279	18.5	4.01	15.3	28.1	29.5	40.6	1.33	389	302.3	17.4	5.42	2544	2271	2729
2/10/25 9:00	7.52	279	17.9	4.00	15.3	27.3	29.4	40.6	1.34	389	253.2	17.4	5.20	2159	2309	2729
2/10/25 10:00	7.39	279	18.2	4.02	15.2	27.7	28.1	40.6	1.35	389	256.3	17.4	5.29	2202	2307	2729
2/10/25 11:00	7.42	280	17.6	4.01	15.3	26.8	27.7	40.6	1.32	388	250.3	17.5	5.27	2152	2279	2729
2/10/25 12:00	7.40	281	18.5	5.53	15.3	31.8	27.3	40.6	1.29	390	271.9	17.4	5.50	2339	2236	2729
2/10/25 13:00	7.47	283	18.2	4.27	15.2	28.2	28.8	40.6	1.28	389	251.8	17.5	5.07	2202	2261	2729
2/10/25 14:00	7.54	281	19.5	4.20	15.2	30.1	28.9	40.6	1.34	391	303.8	17.4	5.23	2584	2328	2729
2/10/25 15:00	7.47	279	21.5	4.21	15.2	33.3	30.0	40.6	1.36	393	365.7	17.2	5.30	2903	2430	2729
2/10/25 16:00	7.53	279	21.0	4.22	15.2	32.4	30.5	40.6	1.33	387	257.0	17.5	5.10	2234	2506	2729
2/10/25 17:00	7.58	278	20.6	4.25	15.2	32.0	31.9	40.6	1.37	385	250.1	17.5	4.94	2170	2462	2729
2/10/25 18:00	7.68	278	24.5	5.44	15.2	41.7	32.6	40.6	1.37	385	254.3	17.6	4.95	2252	2376	2729
2/10/25 19:00	7.71	276	33.1	4.68	15.2	53.5	35.4	40.6	1.29	383	400.3	17.5	5.14	3503	2430	2729
2/10/25 20:00	7.72	276	23.1	4.41	15.3	36.3	42.4	40.6	1.29	384	242.8	17.5	5.25	2087	2501	2729
2/10/25 21:00	7.77	273	22.4	4.34	15.2	34.9	43.8	40.6	1.35	386	256.2	17.5	5.37	2222	2455	2729
2/10/25 22:00	7.71	276	21.9	4.29	15.2	34.1	41.6	40.6	1.39	385	236.2	17.5	5.15	2079	2256	2728
2/10/25 23:00	7.85	276	21.1	4.29	15.2	32.8	35.1	40.6	1.37	383	245.1	17.5	5.11	2147	2123	2728
2/11/25 0:00	7.91	273	21.3	5.53	15.3	36.5	33.9	40.6	1.34	383	234.2	17.5	5.07	2028	2106	2728
2/11/25 1:00	7.67	271	22.0	4.53	15.3	34.8	34.4	40.6	1.25	383	240.3	17.5	5.17	2102	2077	2728
2/11/25 2:00	7.57	272	21.3	4.20	15.3	33.0	34.7	40.6	1.27	383	229.3	17.5	5.38	1996	2058	2728
2/11/25 3:00	7.47	275	21.0	4.21	15.3	32.5	34.8	40.6	1.27	383	234.5	17.5	5.26	2057	2048	2728
2/11/25 4:00	7.56	276	21.2	4.18	15.3	32.8	33.4	40.6	1.26	382	232.7	17.5	5.27	2007	2034	2728
2/11/25 5:00	7.52	279	20.7	4.18	15.3	31.9	32.8	40.6	1.32	385	519.3	17.3	5.65	4329	2251	2728
2/11/25 6:00	7.53	278	21.2	5.45	15.3	36.1	32.4	40.6	1.34	392	1337.3	17.2	5.63	10712	3879	2728
2/11/25 7:00	7.53	282	20.3	4.57	15.3	32.3	33.6	40.6	1.31	394	2244.6	17.3	5.52	18456	8910	2731
2/11/25 8:00	7.80	283	20.1	4.15	15.2	30.9	33.4	40.6	1.30	386	290.8	17.5	5.29	2590	11988	2733
2/11/25 9:00	7.87	280	18.5	4.11	15.3	28.4	33.1	40.6	1.29	381	394.0	17.6	5.15	3542	10711	2733
2/11/25 10:00	7.71	276	18.9	4.11	15.4	29.0	30.5	40.6	1.29	382	314.8	17.5	5.30	2746	5820	2733
2/11/25 11:00	7.48	274	18.1	4.12	15.4	27.9	29.4	40.6	1.32	385	277.1	17.5	5.46	2427	2718	2733
2/11/25 12:00	7.35	275	18.8	5.05	15.4	31.1	28.4	40.6	1.28	388	256.4	17.5	5.39	2237	2436	2733
2/11/25 13:00	7.27	278	17.9	4.81	15.4	29.1	29.3	40.6	1.25	391	333.3	17.5	5.36	2944	2567	2733
2/11/25 14:00	7.28	279	17.3	4.24	15.4	26.9	29.3	40.6	1.30	393	351.9	17.4	5.51	3060	2825	2733
2/11/25 15:00	7.31	279	16.4	4.28	15.4	25.5	29.0	40.6	1.27	395	301.3	17.4	5.55	2587	2931	2733
2/11/25 16:00	7.27	281	15.0	4.46	15.3	23.7	27.2	40.6	1.38	395	305.4	17.3	6.01	2658	2889	2733
2/11/25 17:00	7.48	284	17.4	4.64	15.2	27.8	25.4	40.6	1.40	394	319.4	17.4	5.98	2814	2679	2733
2/11/25 18:00	7.82	281	18.7	5.17	15.2	31.2	25.7	40.6	1.41	391	269.7	17.5	5.80	2439	2682	2733
2/11/25 19:00	7.68	277	18.9	5.51	15.2	32.4	27.5	40.6	1.37	389	259.8	17.5	5.91	2410	2639	2733
2/11/25 20:00	7.80	277	21.7	5.32	15.2	36.5	30.4	40.6	1.41	385	249.2	17.5	5.95	2337	2501	2733
2/11/25 21:00	7.86	276	22.0	4.81	15.4	35.7	33.4	40.6	1.37	384	252.0	17.5	5.73	2310	2403	2733
2/11/25 22:00	7.80	275	21.7	4.75	15.5	35.1	34.9	40.6	1.44	386	313.8	17.4	5.79	2781	2399	2733
2/11/25 23:00	7.72	277	21.0	4.78	15.4	33.9	35.8	40.6	1.44	386	263.4	17.5	5.61	2385	2457	2733
2/12/25 0:00	7.85	278	25.0	5.50	15.3	42.8	34.9	40.6	1.35	386	275.8	17.4	5.65	2420	2461	2732
2/12/25 1:00	7.86	278	26.2	5.72	15.4	45.6	37.3	40.6	1.40	386	252.6	17.5	5.66	2260	2377	2732
2/12/25 2:00	7.81	275	26.0	5.05	15.4	43.0	40.8	40.6	1.43	387	268.3	17.5	5.68	2397	2308	2732
2/12/25 3:00	7.69	275	26.3	4.83	15.4	42.7	43.8	40.6	1.47	387	280.2	17.4	5.63	2452	2334	2732

Stack CEMS Data

	North Stack					North Stack SO2			South Stack					South Stack SO2		
						1Hr	3Hr	365Day						1 Hr	3Hr	365Day
	Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected			Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected		
Timestamp	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv
2/12/25 4:00	7.69	274	25.3	4.79	15.4	40.9	43.8	40.6	1.45	389	293.1	17.4	5.64	2524	2371	2732
2/12/25 5:00	7.72	275	26.8	4.89	15.3	43.5	42.2	40.6	1.42	388	285.3	17.4	5.64	2474	2400	2732
2/12/25 6:00	7.73	275	25.3	5.60	14.9	43.3	42.4	40.6	1.43	387	256.7	17.5	5.46	2269	2404	2732
2/12/25 7:00	7.77	278	22.8	5.26	14.9	38.2	42.6	40.6	1.45	385	259.9	17.6	5.26	2373	2382	2732
2/12/25 8:00	7.89	278	22.0	4.84	15.0	35.5	41.7	40.6	1.52	385	265.0	17.5	5.28	2319	2352	2732
2/12/25 9:00	7.98	281	26.5	4.78	15.2	42.7	39.0	40.6	1.40	385	247.7	17.3	5.53	2071	2288	2732
2/12/25 10:00	8.02	281	29.7	4.70	15.5	47.8	38.8	40.6	1.36	385	228.6	17.4	5.73	2000	2224	2732
2/12/25 11:00	7.89	283	29.3	4.70	15.4	47.2	42.0	40.6	1.43	386	234.1	17.4	5.80	2098	2180	2732
2/12/25 12:00	8.18	286	29.3	5.72	15.4	51.1	45.9	40.6	1.36	379	272.4	17.6	5.31	2514	2143	2732
2/12/25 13:00	8.18	285	29.2	5.44	15.5	49.8	48.7	40.6	1.39	377	193.0	17.6	5.29	1761	2040	2731
2/12/25 14:00	8.18	285	29.9	4.78	15.5	48.4	49.4	40.6	1.39	375	167.7	17.6	5.34	1551	1867	2731
2/12/25 15:00	8.11	283	31.3	4.79	15.5	50.7	49.8	40.6	1.46	376	205.6	17.6	5.51	1900	1753	2731
2/12/25 16:00	8.08	283	32.3	4.79	15.6	52.5	49.6	40.6	1.38	373	177.9	17.6	5.51	1678	1715	2731
2/12/25 17:00	8.08	283	32.6	4.80	15.5	52.8	50.5	40.6	1.43	373	186.4	17.6	5.50	1744	1734	2731
2/12/25 18:00	8.18	285	34.3	5.54	15.5	59.0	52.0	40.6	1.40	370	160.1	17.7	5.28	1529	1666	2730
2/12/25 19:00	8.19	284	32.3	5.67	15.5	56.1	54.8	40.6	1.34	374	209.8	17.5	5.53	1915	1704	2730
2/12/25 20:00	8.22	286	34.5	4.87	15.4	56.2	56.0	40.6	1.30	375	182.8	17.6	5.52	1678	1754	2730
2/12/25 21:00	8.32	289	34.2	4.83	15.4	55.5	57.1	40.6	1.26	378	184.9	17.5	5.71	1706	1809	2730
2/12/25 22:00	8.43	286	33.9	4.88	15.4	55.3	55.9	40.6	1.27	384	218.4	17.4	5.98	1988	1827	2730
2/12/25 23:00	8.22	280	34.5	4.75	15.5	55.8	55.7	40.6	1.33	389	244.6	17.3	6.15	2158	1864	2730
2/13/25 0:00	7.98	278	33.7	5.19	15.3	56.2	55.5	40.6	1.34	393	228.5	17.3	6.15	2031	1918	2729
2/13/25 1:00	7.97	280	25.9	5.37	15.4	43.8	55.8	40.6	1.39	387	213.0	17.4	5.89	1872	1900	2729
2/13/25 2:00	8.17	280	26.2	5.13	15.4	43.5	51.9	40.6	1.34	389	227.6	17.4	6.00	2004	1905	2729
2/13/25 3:00	8.15	280	23.6	4.51	15.5	37.5	47.9	40.6	1.31	391	249.2	17.3	6.12	2152	2003	2729
2/13/25 4:00	8.16	278	21.4	4.40	15.5	33.6	41.6	40.6	1.31	392	274.3	17.3	6.15	2385	2141	2729
2/13/25 5:00	8.05	276	18.8	4.39	15.5	29.6	38.2	40.6	1.32	392	292.0	17.3	6.12	2502	2297	2729
2/13/25 6:00	7.90	276	19.7	4.92	15.5	32.3	33.6	40.6	1.36	396	300.8	17.2	6.12	2552	2387	2729
2/13/25 7:00	7.93	279	17.4	4.66	15.3	28.2	31.8	40.6	1.31	394	260.8	17.3	5.83	2256	2407	2729
2/13/25 8:00	8.07	282	12.7	4.34	15.2	19.8	30.0	40.6	1.36	394	271.9	17.3	5.88	2271	2334	2729
2/13/25 9:00	8.20	281	11.5	4.34	15.3	18.0	26.7	40.6	1.28	396	295.0	17.3	5.85	2459	2287	2729
2/13/25 10:00	8.08	282	6.6	4.40	15.4	10.3	22.0	40.6	1.32	397	301.4	17.3	5.77	2500	2316	2729
2/13/25 11:00	8.08	282	8.8	4.42	15.4	13.8	16.0	40.6	1.34	400	318.7	17.3	5.51	2647	2441	2729
2/13/25 12:00	8.09	282	11.9	5.30	15.3	20.1	14.0	40.6	1.29	392	295.8	17.5	4.89	2474	2522	2728
2/13/25 13:00	8.09	281	14.2	5.15	15.3	23.6	14.8	40.6	1.27	389	286.9	17.4	4.84	2336	2518	2728
2/13/25 14:00	8.00	279	15.3	4.46	15.2	24.1	19.2	40.6	1.32	387	262.7	17.5	4.67	2211	2421	2728
2/13/25 15:00	7.95	279	14.3	4.49	15.3	22.5	22.6	40.6	1.27	388	275.4	17.4	4.98	2276	2325	2728
2/13/25 16:00	7.96	278	13.4	4.49	15.3	21.2	23.4	40.6	1.31	384	248.2	17.5	4.90	2110	2267	2728
2/13/25 17:00	7.95	278	13.6	4.47	15.3	21.5	22.6	40.6	1.28	382	230.5	17.5	4.74	1958	2203	2728
2/13/25 18:00	7.95	277	16.1	5.15	15.3	26.8	21.8	40.6	1.30	384	254.9	17.5	5.10	2166	2139	2728
2/13/25 19:00	7.95	278	14.6	5.26	15.3	24.6	23.2	40.5	1.31	386	240.6	17.4	5.16	2032	2121	2728
2/13/25 20:00	7.97	278	14.7	4.54	15.3	23.3	24.3	40.5	1.36	385	235.9	17.5	5.09	2045	2101	2728
2/13/25 21:00	8.00	276	14.7	4.73	15.3	23.6	24.9	40.5	1.33	390	282.7	17.3	5.61	2402	2146	2728
2/13/25 22:00	8.08	277	15.1	4.74	15.0	24.2	23.8	40.5	1.32	390	290.0	17.4	5.40	2439	2216	2728
2/13/25 23:00	8.14	277	14.9	4.43	15.4	23.4	23.7	40.5	1.30	385	245.5	17.6	5.03	2180	2274	2727
2/14/25 0:00	8.01	275	15.6	5.15	15.4	26.1	23.7	40.5	1.31	385	267.0	17.5	5.09	2266	2293	2727
2/14/25 1:00	7.94	275	15.4	5.23	15.4	25.9	24.6	40.5	1.32	383	238.5	17.5	4.92	2045	2229	2727
2/14/25 2:00	7.96	275	15.3	4.44	15.4	24.1	25.1	40.5	1.31	383	254.3	17.5	4.96	2164	2197	2727
2/14/25 3:00	7.94	275	15.5	4.40	15.4	24.3	25.3	40.5	1.34	384	254.2	17.4	4.97	2115	2186	2727
2/14/25 4:00	7.92	275	15.6	4.38	15.3	24.4	24.8	40.5	1.31	385	255.1	17.4	4.95	2086	2184	2727
2/14/25 5:00	7.91	276	15.4	4.39	15.3	24.1	24.3	40.5	1.31	384	253.4	17.5	4.87	2109	2178	2727
2/14/25 6:00	7.95	274	16.4	5.16	15.4	27.4	24.3	40.5	1.34	385	261.5	17.5	5.16	2250	2163	2727
2/14/25 7:00	7.80	276	14.0	4.74	15.4	22.8	25.3	40.5	1.42	383	249.1	17.5	5.02	2153	2154	2727
2/14/25 8:00	7.95	281	11.8	4.28	15.3	18.3	24.8	40.5	1.39	383	259.9	17.5	4.99	2194	2155	2727
2/14/25 9:00	8.22	282	12.7	4.34	15.3	19.8	22.8	40.5	1.33	384	253.8	17.4	4.93	2112	2153	2726
2/14/25 10:00	8.15	282	19.0	5.66	13.6	32.2	20.3	40.5	1.34	384	243.5	17.5	4.81	2023	2164	2726
2/14/25 11:00	8.62	280	39.1	5.89	12.9	66.3	23.4	40.5	1.40	384	259.2	17.4	5.15	2167	2154	2726
2/14/25 12:00	8.47	281	49.2	6.90	12.7	90.7	39.4	40.5	1.34	387	258.7	17.5	5.14	2205	2167	2726
2/14/25 13:00	8.59	279	69.9	6.85	12.3	126.6	63.1	40.5	1.36	387	249.5	17.4	5.01	2067	2161	2726
2/14/25 14:00	8.36	283	102.2	6.11	11.5	172.2	94.5	40.5	1.34	387	257.5	17.4	5.19	2168	2176	2726
2/14/25 15:00	8.61	286	96.9	6.02	11.8	162.9	129.8	40.6	1.29	389	270.4	17.4	5.25	2279	2152	2726
2/14/25 16:00	8.54	284	47.4	4.88	14.3	76.0	153.9	40.6	1.31	389	264.6	17.4	5.21	2223	2150	2726
2/14/25 17:00	8.13	285	36.6	4.73	14.7	58.3	137.1	40.6	1.38	391	275.5	17.3	5.79	2327	2161	2726
2/14/25 18:00	8.13	283	36.2	5.34	14.7	60.4	99.1	40.6	1.30	391	281.5	17.3	5.86	2392	2195	2726
2/14/25 19:00	8.12	283	36.5	5.52	14.7	61.8	64.9	40.6	1.32	392	284.4	17.1	6.08	2302	2243	2725
2/14/25 20:00	8.06	281	36.5	4.95	14.8	59.2	60.2	40.6	1.35	392	275.0	17.4	5.72	2407	2287	2725
2/14/25 21:00	7.91	278	37.3	4.63	14.9	59.2	60.5	40.6	1.28	392	284.1	17.4	5.47	2414	2351	2725
2/14/25 22:00	7.72	280	36.9	4.65	14.7	58.5	60.0	40.6	1.34	391	378.9	17.4	5.40	3226	2569	2725
2/14/25 23:00	7.95	281	37.3	4.65	14.7	59.1	58.9	40.6	1.33	390	315.6	17.5	5.43	2763	2764	2725
2/15/25 0:00	7.92	284	38.1	5.33	14.7	63.6	58.9	40.6	1.34	392	290.8	17.4	5.53	2511	2819	2725
2/15/25 1:00	8.07	286	36.0	5.48	14.6	60.8	60.4	40.6	1.33	393	307.1	17.3	5.70	2606	2676	2725
2/15/25 2:00	8.14	285	34.5	5.02	14.6	56.1	61.1	40.6	1.39	392	335.5	17.3	5.83	2875	2579	2725
2/15/25 3:00	8.16	282	39.0	4.77	14.6	62.2	60.1	40.6	1.30	395	334.5	17.3	6.24	2926	2691	2725
2/15/25 4:00	8.02	280	37.6	4.78	14.6	59.9	59.7	40.6	1.29	398	299.8	17.3	6.28	2654	2750	2725
2/15/25 5:00	7.99	280	37.3	4.78	14.6	59.4	59.4	40.6	1.32	399	260.1	17.4	6.10	2349	2779	2725
2/15/25 6:00	7.93	278	37.8	5.23	14.7	62.5	60.5	40.6	1.39	398	262.4	17.4	6.14	2384	2664	2725
2/15/25 7:00	7.79	284	40.4	4.91	14.7	65.4	60.6	40.6	1.28	396	297.9	17.5	5.73	2780	2658	2725
2/15/25 8:00	8.17	283	40.4	4.62	14.6	63.7	62.4	40.6	1.32	399	268.7	17.3	6.17	2312	2603	2725
2/15/25 9:00	8.18	283	40.7	4.67	14.6	64.4	63.9	40.6	1.28	398	253.8	17.3	5.91	2167	2464	2725
2/15/25 10:00	8.25	280	42.0	4.63	14.6	66.4	64.5	40.6	1.34	399	257.1	17.3	5.85	2179	2287	2725
2/15/25 11:00	8.17	277	41.3	4.50	14.7	64.7	64.8	40.6	1.30	400	252.0	17.3	5.89	2162	2160	2725
2/15/25 12:00	7.89	277	40.5	5.57	14.8	69.0	65.2	40.7	1.32	402	271.4	17.2	6.11	2303	2196	2725
2/15/25 13:00	8.00	280	38.1	4.91	14.8	61.8	66.7	40.7	1.28	401	264.4	17.3	6.15	2294	2255	2725
2/15/25 14:00	7.90	281	36.9	4.45	14.9	57.8	65.2	40.7	1.31	398	280.6	17.3	6.24	2415	2299	2725
2/15/25 15:00	7.94	283	36.2	4.51	14.9	57.0	62.8	40.7	1.39	396	264.3	17.3	6.12	2267	2305	2725
2/15/25 16:00	7.98	284	36.5	4.56	14.9	57.6	58.8	40.7	1.36	394	257.7	17.3	5.94	2202	2267	2725
2/15/25 17:00	8.03	283	37.8	4.70	14.8	60.2	57.4	40.7	1.34	393	249.0	17.3	5.94	2112	2230	2724
2/15/25 18:00	8.04	286	42.8	5.47	14.7	72.5	58.3	40.7	1.32	398	259.5	17.3	5.92	2200	2250	2724
2/15/25 19:00	8.27	281	42.5	5.55	14.8	72.3	63.4	40.7	1.31	399	238.3	17.3	6.04	2053	2255	2724
2/15/25 20:00	8.04	280	41.2	4.87	15.1	66.7	68.3	40.7	1.28	399	236.4	17.3	6.09	2059	2223	2724
2/15/25 21:00	8.11	281	42.8	4.99	14.9	69.8	70.5	40.7	1.40	395	255.8	17.3	6.13	2225	2144	2724
2/15/25 22:00	8.17	281	44.6	5.18	14.9	73.8	69.6	40.7	1.42	390	249.3	17.4	5.68	2151	2132	2724
2/15/25 23:00	8.27	281	43.9	5.21	14.7	72.5	70.1	40.7	1.43	388	230.7	17.5	5.43	2015	2157	2724

Stack CEMS Data

	North Stack					North Stack SO2			South Stack					South Stack SO2		
						1Hr	3Hr	365Day						1 Hr	3Hr	365Day
	Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected			Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected		
Timestamp	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv
2/16/25 0:00	8.33	279	40.5	5.78	14.6	69.8	72.0	40.7	1.46	385	250.1	17.3	5.65	2118	2112	2724
2/16/25 1:00	8.20	279	42.0	5.97	14.7	73.8	72.0	40.7	1.47	386	247.1	17.4	5.72	2125	2073	2724
2/16/25 2:00	8.28	281	43.6	5.53	14.7	73.9	72.0	40.7	1.39	386	239.2	17.4	5.58	2075	2035	2724
2/16/25 3:00	8.34	279	45.6	5.21	14.6	75.2	72.5	40.7	1.45	385	230.2	17.5	5.39	2022	2068	2723
2/16/25 4:00	8.27	278	46.9	5.16	14.6	77.1	74.3	40.7	1.39	386	259.5	17.3	5.78	2196	2060	2723
2/16/25 5:00	8.17	277	47.1	5.13	14.5	77.2	75.4	40.7	1.46	386	260.5	17.4	5.48	2275	2095	2723
2/16/25 6:00	8.08	277	50.8	5.76	14.4	87.5	76.5	40.7	1.46	385	252.0	17.4	5.24	2156	2125	2723
2/16/25 7:00	7.98	280	45.2	5.34	14.7	76.0	80.6	40.8	1.39	387	264.3	17.3	5.57	2151	2145	2723
2/16/25 8:00	8.07	282	42.4	4.86	14.7	68.2	80.2	40.8	1.45	388	260.7	17.2	5.80	2118	2155	2723
2/16/25 9:00	8.16	283	40.9	4.76	14.8	65.4	77.2	40.8	1.41	385	232.5	17.4	5.70	2013	2139	2723
2/16/25 10:00	8.20	285	39.3	4.68	14.8	62.5	69.9	40.8	1.42	385	282.8	17.3	6.06	2468	2172	2723
2/16/25 11:00	8.31	284	39.2	4.64	14.8	62.1	65.4	40.8	1.42	382	232.6	17.4	5.63	2041	2161	2723
2/16/25 12:00	8.28	283	39.7	5.73	14.9	68.9	63.3	40.8	1.40	381	218.7	17.4	5.50	1910	2089	2722
2/16/25 13:00	8.24	282	38.9	4.99	14.9	63.6	64.5	40.8	1.45	382	252.7	17.4	5.56	2209	2045	2722
2/16/25 14:00	8.27	281	37.0	4.48	14.9	58.0	64.9	40.8	1.40	380	211.9	17.5	5.44	1876	1962	2722
2/16/25 15:00	8.21	282	32.5	4.47	14.9	50.9	63.5	40.8	1.31	380	195.9	17.5	5.50	1737	1965	2722
2/16/25 16:00	8.33	282	30.7	4.48	14.9	48.1	57.5	40.8	1.40	381	213.2	17.4	5.52	1853	1897	2722
2/16/25 17:00	8.35	280	30.8	4.48	14.8	48.2	52.4	40.8	1.28	384	220.3	17.5	5.46	1944	1930	2722
2/16/25 18:00	8.29	278	33.0	5.41	14.8	55.7	49.1	40.8	1.33	387	232.6	17.4	5.32	1978	1970	2722
2/16/25 19:00	8.13	275	31.5	5.01	14.9	51.5	50.7	40.8	1.31	388	245.3	17.5	5.30	2131	2044	2722
2/16/25 20:00	7.98	279	37.3	4.74	14.6	59.5	51.8	40.8	1.35	385	237.8	17.5	4.90	2051	2064	2721
2/16/25 21:00	8.30	282	57.6	5.17	13.9	93.6	55.6	40.8	1.31	383	235.4	17.5	5.02	2000	2052	2721
2/16/25 22:00	8.53	281	61.4	5.21	14.2	100.6	68.2	40.8	1.32	382	229.1	17.5	4.87	1921	2005	2721
2/16/25 23:00	8.51	281	62.0	5.22	13.6	100.8	84.6	40.8	1.31	380	224.1	17.5	4.79	1881	1969	2721
2/17/25 0:00	8.50	281	70.9	6.18	13.3	124.4	98.3	40.8	1.31	378	237.5	17.5	4.75	1998	1946	2721
2/17/25 1:00	8.54	280	85.7	5.70	13.1	143.7	108.6	40.8	1.33	378	225.8	17.5	4.82	1911	1942	2721
2/17/25 2:00	8.30	279	87.8	5.08	13.1	140.0	122.9	40.9	1.30	376	193.8	17.6	4.67	1697	1920	2721
2/17/25 3:00	8.24	282	91.6	5.12	13.0	146.1	136.0	40.9	1.33	374	235.1	17.6	4.79	2064	1893	2720
2/17/25 4:00	8.34	283	134.6	5.13	12.8	214.4	143.2	40.9	1.36	372	323.3	17.6	4.74	2872	1892	2720
2/17/25 5:00	8.25	283	118.5	5.11	12.7	188.1	166.8	40.9	1.35	373	519.8	17.6	4.81	4480	2107	2720
2/17/25 6:00	8.20	282	117.6	6.09	12.4	200.9	182.9	41.0	1.37	387	1435.2	17.1	5.40	11036	4617	2721
2/17/25 7:00	8.12	284	115.9	5.59	12.4	190.4	201.1	41.0	1.35	392	1441.0	17.3	5.43	11609	16743	2728
2/17/25 8:00	8.21	287	118.8	5.09	12.2	186.9	193.1	41.0	1.36	391	1073.9	17.1	5.30	8128	18837	2729
2/17/25 9:00	8.36	290	118.5	5.06	12.3	186.3	192.7	41.0	1.38	390	760.3	17.2	5.03	5894	17091	2729
2/17/25 10:00	8.38	289	115.6	5.08	12.3	182.1	187.9	41.1	1.37	384	486.1	17.4	4.60	3916	5499	2729
2/17/25 11:00	8.39	289	117.7	4.99	12.3	184.2	185.1	41.1	1.33	379	308.2	17.5	4.33	2506	3480	2729
2/17/25 12:00	8.43	290	122.3	6.00	12.2	207.0	184.2	41.1	1.34	375	225.1	17.6	4.12	1852	2727	2729
2/17/25 13:00	8.67	287	122.2	5.71	12.3	202.2	191.1	41.2	1.39	373	260.1	17.5	4.18	2096	2134	2729
2/17/25 14:00	8.66	283	122.8	4.97	12.4	192.1	197.8	41.2	1.45	373	229.9	17.6	3.99	1896	1825	2729
2/17/25 15:00	8.46	278	117.0	4.92	12.6	182.9	200.5	41.2	1.39	373	243.4	17.5	3.97	1937	1817	2729
2/17/25 16:00	8.18	278	116.2	4.98	12.5	182.2	192.4	41.2	1.41	379	291.5	17.5	4.22	2302	1919	2729
2/17/25 17:00	8.20	280	121.3	5.02	12.3	190.1	185.7	41.3	1.38	375	231.5	17.5	4.22	1854	1931	2728
2/17/25 18:00	8.31	283	131.7	6.04	12.1	223.4	185.0	41.3	1.35	375	212.5	17.4	4.50	1693	1882	2728
2/17/25 19:00	8.41	283	130.2	5.62	12.3	214.0	198.5	41.3	1.34	376	226.1	17.4	4.54	1816	1796	2728
2/17/25 20:00	8.48	283	127.9	5.02	12.3	200.4	209.1	41.3	1.39	379	242.1	17.3	4.84	1930	1796	2728
2/17/25 21:00	8.46	284	128.1	5.00	12.7	201.8	212.6	41.4	1.31	380	239.7	17.3	4.86	1901	1874	2728
2/17/25 22:00	8.56	282	128.1	5.01	12.2	200.3	205.4	41.4	1.37	381	234.3	17.3	5.03	1832	1911	2728
2/17/25 23:00	8.44	284	128.5	5.02	12.1	201.0	200.8	41.4	1.28	382	238.0	17.4	4.90	1909	1951	2727
2/18/25 0:00	8.58	282	124.6	6.04	12.2	211.5	201.0	41.5	1.39	382	262.0	17.4	4.79	2093	1979	2727
2/18/25 1:00	8.42	284	128.9	5.62	12.1	211.0	204.3	41.5	1.36	381	256.2	17.4	4.73	2093	2024	2727
2/18/25 2:00	8.73	287	129.6	5.10	12.0	203.5	207.8	41.5	1.37	376	220.9	17.5	4.30	1800	2014	2727
2/18/25 3:00	8.92	285	129.7	5.09	12.0	203.5	208.7	41.6	1.35	376	225.2	17.5	4.50	1828	1981	2727
2/18/25 4:00	8.95	282	127.2	5.06	12.2	199.5	206.0	41.6	1.36	376	238.8	17.4	4.52	1879	1949	2727
2/18/25 5:00	8.63	279	124.1	5.20	12.1	196.5	202.2	41.6	1.44	379	265.4	17.4	4.55	2085	1958	2727
2/18/25 6:00	8.57	281	123.5	6.31	12.0	213.4	199.9	41.6	1.40	378	243.1	17.4	4.82	1961	1978	2727
2/18/25 7:00	8.64	282	120.6	5.83	12.0	201.1	203.2	41.7	1.33	380	239.7	17.4	4.68	1898	2000	2726
2/18/25 8:00	8.62	283	120.0	5.48	12.0	193.8	203.7	41.7	1.39	380	256.0	17.3	4.81	2009	1994	2726
2/18/25 9:00	8.66	285	119.8	5.57	12.1	195.1	202.8	41.7	1.38	381	263.7	17.4	4.76	2099	2003	2726
2/18/25 10:00	8.68	287	120.3	5.60	12.0	196.2	196.7	41.8	1.32	380	243.2	17.4	4.80	1977	2002	2726
2/18/25 11:00	8.79	288	118.1	5.61	12.1	193.0	195.0	41.8	1.33	381	237.0	17.4	4.54	1881	2014	2726
2/18/25 12:00	8.73	288	118.3	5.67	12.1	194.3	194.8	41.8	1.30	381	300.7	17.4	4.54	2395	2010	2726
2/18/25 13:00	8.67	288	118.6	5.28	12.1	189.4	194.5	41.8	1.33	381	236.7	17.5	4.49	1948	2032	2726
2/18/25 14:00	8.70	288	117.5	5.26	12.1	186.9	192.2	41.9	1.33	380	247.8	17.5	4.37	2029	2066	2726
2/18/25 15:00	8.67	289	118.9	5.32	12.1	190.0	190.2	41.9	1.36	379	263.5	17.5	4.61	2175	2034	2725
2/18/25 16:00	8.77	288	116.9	5.35	12.0	187.2	188.8	41.9	1.40	376	220.9	17.6	4.23	1850	2017	2725
2/18/25 17:00	8.71	290	120.4	5.40	11.9	193.0	188.0	41.9	1.33	377	229.8	17.5	4.36	1844	1969	2725
2/18/25 18:00	8.98	292	121.3	6.42	11.9	211.2	190.1	42.0	1.37	378	224.8	17.5	4.44	1855	1980	2725
2/18/25 19:00	9.04	290	118.8	6.13	12.0	202.3	197.2	42.0	1.33	380	248.6	17.4	4.81	2018	1971	2725
2/18/25 20:00	8.89	294	122.9	5.48	12.4	199.9	202.2	42.0	1.37	381	255.4	17.4	4.84	2112	1983	2725
2/18/25 21:00	9.32	294	122.0	5.48	11.9	196.9	204.5	42.1	1.39	379	254.0	17.5	4.66	2090	2005	2725
2/18/25 22:00	9.17	292	121.4	5.45	11.9	195.5	199.7	42.1	1.37	379	245.6	17.5	4.66	2035	2005	2724
2/18/25 23:00	9.06	289	118.0	5.40	12.1	189.6	197.4	42.1	1.32	380	249.5	17.4	4.87	2046	2000	2724
2/19/25 0:00	8.76	288	117.6	6.33	12.1	204.0	194.0	42.1	1.36	382	263.3	17.3	4.94	2098	2009	2724
2/19/25 1:00	8.69	288	116.8	6.06	12.1	198.2	196.4	42.2	1.36	383	264.2	17.3	5.02	2107	2046	2724
2/19/25 2:00	8.65	289	119.3	5.47	12.1	192.7	197.2	42.2	1.32	386	270.8	17.2	5.45	2181	2093	2724
2/19/25 3:00	8.85	290	118.1	5.43	12.1	190.4	198.3	42.2	1.33	386	307.3	17.2	5.38	2459	2157	2724
2/19/25 4:00	8.72	288	115.7	5.40	12.2	186.4	193.7	42.2	1.29	387	321.2	17.2	5.41	2560	2219	2724
2/19/25 5:00	8.59	288	115.4	5.42	12.3	186.3	189.8	42.3	1.34	388	296.8	17.3	5.38	2397	2314	2724
2/19/25 6:00	8.62	289	116.4	6.21	12.2	200.0	187.7	42.3	1.37	391	305.9	17.1	5.76	2422	2339	2724
2/19/25 7:00	8.74	291	116.3	5.78	12.1	193.2	190.9	42.3	1.32	393	298.3	17.1	6.01	2385	2407	2724
2/19/25 8:00	8.66	288	117.7	5.32	12.2	188.3	193.2	42.4	1.35	396	404.4	17.0	6.01	3135	2478	2724
2/19/25 9:00	8.55	286	116.0	5.31	12.3	185.9	193.8	42.4	1.34	397	359.6	17.1	5.74	2791	2705	2724
2/19/25 10:00	8.38	286	115.8	5.35	12.3	186.0	189.1	42.4	1.30	396	327.9	17.2	5.71	2668	2846	2724
2/19/25 11:00	8.39	287	109.5	5.32	12.2	175.2	186.7	42.4	1.34	397	361.8	17.2	5.77	2891	2855	2724
2/19/25 12:00	8.43	289	109.1	6.04	12.1	184.5	182.4	42.5	1.30	398	577.7	17.2	5.72	4691	3573	2724
2/19/25 13:00	8.52	290	110.5	6.16	12.1	188.8	181.9	42.5	1.34	395	606.4	17.2	5.70	4981	3958	2724
2/19/25 14:00	8.61	291	118.3	5.89	12.0	197.6	182.9	42.5	1.34	392	434.8	17.3	5.41	3600	4320	2725
2/19/25 15:00	8.60	289	119.5	5.51	12.1	193.8	190.3	42.5	1.37	393	324.5	17.3	5.52	2699	3655	2725
2/19/25 16:00	8.41	288	119.9	5.52	12.1	194.6	193.4	42.6	1.37	394	369.4	17.3	5.40	3028	3234	2725
2/19/25 17:00	8.42	289	120.8	5.51	12.1	196.0	195.3	42.6	1.31	394	340.4	17.2	5.58	2756	2976	2725
2/19/25 18:00	8.42	290	121.5	5.92	12.1	203.4	194.8	42.6	1.41	392	362.4	17.0	6.07	2841	2767	2725
2/19/25 19:00	8.41	291	120.9	6.00	12.6	205.5	198.0	42.6	1.41	393	318.8	17.2	5.85	2624	2653	2725

Stack CEMS Data

	North Stack					North Stack SO2			South Stack					South Stack SO2		
						1Hr	3Hr	365Day						1 Hr	3Hr	365Day
	Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected			Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected		
Timestamp	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv
2/19/25 20:00	8.54	291	122.1	6.06	12.0	206.4	201.6	42.7	1.31	393	295.9	17.3	5.77	2507	2522	2725
2/19/25 21:00	8.53	290	120.3	5.87	12.0	200.6	205.1	42.7	1.45	390	293.2	17.3	5.76	2507	2574	2725
2/19/25 22:00	8.44	289	121.6	5.53	12.1	197.3	204.2	42.7	1.39	390	349.1	17.3	6.01	2966	2602	2725
2/19/25 23:00	8.35	289	121.8	5.53	12.2	198.1	201.4	42.8	1.39	390	285.1	17.3	5.82	2433	2583	2725
2/20/25 0:00	8.52	290	122.4	5.96	12.1	205.5	198.7	42.8	1.41	389	304.3	17.3	5.79	2589	2516	2725
2/20/25 1:00	8.65	290	121.3	6.07	12.0	205.2	200.3	42.8	1.32	392	295.4	17.4	5.53	2498	2515	2724
2/20/25 2:00	8.68	288	120.1	6.07	12.0	203.2	202.9	42.8	1.33	392	319.7	17.2	5.73	2597	2539	2724
2/20/25 3:00	8.56	288	120.1	5.88	12.0	200.3	204.6	42.9	1.33	391	298.8	17.3	5.79	2527	2543	2724
2/20/25 4:00	8.54	290	122.5	5.64	11.9	200.0	202.9	42.9	1.39	390	313.9	17.3	5.84	2682	2551	2724
2/20/25 5:00	8.83	293	120.7	5.63	11.9	197.0	201.2	42.9	1.40	387	297.3	17.3	5.69	2537	2571	2724
2/20/25 6:00	8.87	293	123.6	6.06	11.9	208.7	199.1	43.0	1.45	385	294.3	17.3	5.61	2482	2602	2724
2/20/25 7:00	8.89	291	123.3	5.72	12.0	202.9	201.9	43.0	1.50	385	302.5	17.3	5.60	2565	2607	2724
2/20/25 8:00	8.73	290	122.2	5.50	11.9	197.4	202.9	43.0	1.48	385	289.2	17.3	5.69	2409	2562	2724
2/20/25 9:00	8.71	291	123.1	5.48	12.0	198.9	203.0	43.0	1.44	385	297.1	17.3	5.77	2515	2500	2724
2/20/25 10:00	8.65	291	123.8	5.50	12.0	200.4	199.7	43.1	1.36	386	295.9	17.3	5.61	2468	2444	2724
2/20/25 11:00	8.70	291	123.0	5.49	12.0	198.9	198.9	43.1	1.35	386	289.8	17.3	5.54	2442	2409	2724
2/20/25 12:00	8.62	291	124.4	6.00	12.1	209.6	199.4	43.1	1.45	386	286.3	17.3	5.42	2355	2408	2724
2/20/25 13:00	8.56	290	123.9	6.10	12.1	210.5	203.0	43.2	1.28	388	295.2	17.3	5.44	2421	2406	2724
2/20/25 14:00	8.52	290	123.3	6.06	12.1	208.7	206.3	43.2	1.36	391	289.1	17.3	5.38	2381	2421	2724
2/20/25 15:00	8.52	291	121.9	5.75	12.1	201.4	209.6	43.2	1.46	392	289.8	17.3	5.50	2413	2421	2724
2/20/25 16:00	8.50	290	121.5	5.58	12.1	198.3	206.9	43.2	1.38	391	297.7	17.3	5.55	2456	2420	2724
2/20/25 17:00	8.45	291	124.6	5.66	12.0	204.2	202.8	43.3	1.47	393	286.8	17.3	5.52	2384	2424	2724
2/20/25 18:00	8.66	294	126.2	5.93	12.0	211.1	201.3	43.3	1.36	390	280.7	17.4	5.52	2393	2431	2724
2/20/25 19:00	8.74	291	124.8	5.99	12.0	210.0	204.5	43.3	1.44	391	290.9	17.3	5.71	2409	2407	2724
2/20/25 20:00	8.64	289	122.7	5.96	12.1	206.4	208.4	43.4	1.38	390	281.5	17.3	5.66	2364	2366	2724
2/20/25 21:00	8.45	288	125.3	5.99	12.3	211.8	209.2	43.4	1.39	391	290.8	17.3	5.49	2424	2359	2724
2/20/25 22:00	8.66	291	128.0	6.02	12.1	216.0	209.4	43.4	1.35	390	284.8	17.3	5.21	2330	2391	2723
2/20/25 23:00	8.99	293	127.3	5.77	12.4	211.7	211.4	43.4	1.28	387	281.7	17.4	5.05	2312	2370	2723
2/21/25 0:00	8.97	290	126.6	6.00	12.1	213.2	213.2	43.5	1.37	386	272.3	17.4	4.97	2226	2322	2723
2/21/25 1:00	8.70	286	122.9	6.03	12.2	208.1	213.7	43.5	1.30	387	278.2	17.4	5.15	2283	2255	2723
2/21/25 2:00	8.44	284	122.6	6.02	12.2	207.2	211.0	43.5	1.32	391	301.4	17.2	5.55	2397	2265	2723
2/21/25 3:00	8.46	285	124.9	5.99	12.2	210.6	209.5	43.6	1.35	391	283.8	17.2	5.51	2294	2293	2723
2/21/25 4:00	8.50	285	124.5	5.70	12.2	205.2	208.6	43.6	1.34	391	299.8	17.2	5.62	2426	2327	2723
2/21/25 5:00	8.51	285	124.5	5.61	12.1	203.5	207.7	43.6	1.38	390	304.1	17.3	5.38	2476	2355	2723
2/21/25 6:00	8.50	285	123.9	5.94	12.2	208.2	206.4	43.6	1.36	388	286.4	17.3	5.27	2319	2360	2723
2/21/25 7:00	8.51	285	123.4	5.68	12.2	203.1	205.6	43.7	1.37	388	333.5	17.3	5.39	2697	2360	2723
2/21/25 8:00	8.52	288	123.7	5.47	12.0	199.6	204.9	43.7	1.34	388	281.0	17.3	5.28	2264	2381	2723
2/21/25 9:00	8.72	290	122.2	5.49	12.1	198.0	203.6	43.7	1.42	389	323.7	17.2	5.57	2625	2367	2723
2/21/25 10:00	8.62	290	118.4	5.48	12.0	191.3	200.3	43.8	1.38	390	296.7	17.3	5.59	2439	2385	2723
2/21/25 11:00	8.62	293	115.4	5.53	11.9	186.7	196.3	43.8	1.33	364	273.3	17.3	5.09	2168	2469	2723
2/21/25 12:00	8.79	295	119.7	5.91	11.9	199.8	192.0	43.8	1.36	392	284.8	17.3	4.98	2268	2444	2723
2/21/25 13:00	8.79	293	123.7	5.95	11.9	207.1	192.6	43.8	1.40	396	276.7	17.4	4.90	2238	2393	2722
2/21/25 14:00	8.57	291	126.6	5.92	11.8	211.0	197.9	43.9	1.38	400	295.5	17.1	5.73	2295	2225	2722
2/21/25 15:00	8.48	291	132.0	5.93	11.7	219.8	206.0	43.9	1.36	402	281.3	17.3	5.22	2300	2223	2722
2/21/25 16:00	8.50	290	131.8	5.91	11.7	219.2	212.6	43.9	1.38	401	276.4	17.4	4.90	2231	2231	2722
2/21/25 17:00	8.53	290	131.9	5.79	11.7	217.3	216.7	44.0	1.41	400	277.2	17.3	5.19	2250	2249	2722
2/21/25 18:00	8.50	290	133.3	5.88	11.7	221.1	218.8	44.0	1.37	400	264.1	17.3	5.27	2112	2231	2722
2/21/25 19:00	8.52	289	131.4	5.91	11.8	218.8	219.2	44.0	1.33	402	267.3	17.2	5.48	2159	2196	2722
2/21/25 20:00	8.40	287	129.6	5.92	11.9	216.3	219.1	44.1	1.33	404	273.0	17.2	5.83	2193	2161	2722
2/21/25 21:00	8.35	286	128.8	5.93	11.9	215.1	218.7	44.1	1.37	404	279.8	17.2	6.17	2380	2195	2722
2/21/25 22:00	8.35	287	128.8	5.93	11.9	215.3	216.8	44.1	1.33	405	461.3	17.2	5.55	3746	2452	2722
2/21/25 23:00	8.39	288	128.2	5.80	11.9	212.0	215.6	44.1	1.39	404	343.9	17.3	5.41	2850	2773	2722
2/22/25 0:00	8.42	288	128.9	5.92	11.8	214.9	214.1	44.2	1.34	402	311.0	17.3	5.38	2536	2909	2722
2/22/25 1:00	8.42	288	128.7	5.97	11.8	215.4	214.1	44.2	1.38	402	277.8	17.3	5.44	2253	2733	2722
2/22/25 2:00	8.45	289	128.8	5.98	11.8	215.7	214.1	44.2	1.34	401	282.4	17.3	5.42	2314	2464	2722
2/22/25 3:00	8.44	289	130.3	5.96	11.8	217.9	215.3	44.3	1.36	400	271.1	17.3	5.34	2213	2323	2722
2/22/25 4:00	8.43	290	133.8	5.92	11.7	222.7	216.3	44.3	1.34	399	275.0	17.4	5.05	2278	2266	2722
2/22/25 5:00	8.54	290	131.2	5.72	11.8	215.1	218.8	44.3	1.35	397	253.6	17.4	5.05	2135	2237	2721
2/22/25 6:00	8.45	290	133.4	5.90	11.7	221.5	218.5	44.4	1.32	399	251.7	17.2	5.56	2035	2198	2721
2/22/25 7:00	8.47	291	133.6	5.61	11.7	217.1	219.8	44.4	1.33	399	260.2	17.3	5.33	2150	2157	2721
2/22/25 8:00	8.48	292	133.0	5.36	11.7	212.0	217.9	44.4	1.37	398	264.3	17.3	5.35	2185	2130	2721
2/22/25 9:00	8.52	295	133.1	5.40	11.7	212.6	216.8	44.4	1.31	399	258.7	17.3	5.28	2116	2123	2721
2/22/25 10:00	8.58	298	116.4	5.42	12.1	187.6	213.9	44.5	1.28	399	247.8	17.3	5.24	2039	2119	2721
2/22/25 11:00	8.70	298	73.5	5.23	13.3	119.2	204.1	44.5	1.38	399	244.2	17.4	5.25	2064	2105	2721
2/22/25 12:00	8.58	291	53.1	5.21	14.3	87.0	173.1	44.5	1.36	398	267.8	17.4	5.20	2232	2086	2721
2/22/25 13:00	8.12	289	33.1	5.34	14.7	55.4	131.3	44.5	1.35	400	261.9	17.4	5.20	2157	2104	2721
2/22/25 14:00	7.88	290	32.6	5.12	15.0	53.7	87.2	44.5	1.27	399	256.9	17.4	5.22	2196	2131	2721
2/22/25 15:00	7.89	289	30.7	4.75	15.0	49.3	65.4	44.5	1.29	400	247.8	17.3	5.32	2051	2149	2720
2/22/25 16:00	7.84	291	29.3	4.69	15.0	46.7	52.8	44.5	1.32	400	250.2	17.4	5.08	2091	2132	2720
2/22/25 17:00	8.02	293	29.2	4.65	15.0	46.5	49.9	44.5	1.34	399	250.6	17.4	5.27	2096	2100	2720
2/22/25 18:00	8.04	295	29.1	5.08	15.0	47.8	47.5	44.5	1.30	401	256.0	17.3	5.24	2091	2085	2720
2/22/25 19:00	8.10	292	30.0	5.14	15.1	49.6	47.0	44.5	1.31	400	266.8	17.4	5.27	2228	2073	2720
2/22/25 20:00	7.91	290	29.7	5.15	15.1	49.2	48.0	44.5	1.32	401	250.6	17.3	5.37	2049	2081	2720
2/22/25 21:00	7.95	290	29.1	4.82	15.2	47.1	48.9	44.5	1.35	402	258.4	17.3	5.52	2135	2068	2720
2/22/25 22:00	7.87	289	28.4	4.69	15.1	45.3	48.6	44.5	1.27	402	235.1	17.4	5.21	1945	2069	2720
2/22/25 23:00	8.00	286	28.5	4.64	15.1	45.3	47.2	44.5	1.29	402	246.6	17.4	5.45	2070	2041	2720
2/23/25 0:00	7.89	285	29.0	4.94	15.2	47.3	45.9	44.5	1.31	402	243.2	17.4	5.34	2057	2047	2719
2/23/25 1:00	7.87	281	29.5	4.96	15.2	48.2	46.0	44.5	1.36	402	245.3	17.4	5.47	2063	2046	2719
2/23/25 2:00	7.62	280	30.1	4.95	15.2	49.2	47.0	44.5	1.30	404	247.9	17.3	5.55	2051	2089	2719
2/23/25 3:00	7.65	280	30.1	4.83	15.2	48.8	48.2	44.5	1.33	406	271.6	17.3	5.64	2240	2123	2719
2/23/25 4:00	7.65	280	28.7	4.55	15.2	45.5	48.7	44.5	1.33	405	251.3	17.3	5.55	2074	2160	2719
2/23/25 5:00	7.72	279	27.2	4.49	15.3	43.0	47.8	44.5	1.32	405	264.0	17.3	5.65	2173	2184	2719
2/23/25 6:00	7.58	278	27.9	4.83	15.3	45.2	45.8	44.5	1.31	405	277.3	17.3	5.72	2330	2219	2719
2/23/25 7:00	7.54	277	24.1	4.44	15.3	38.0	44.6	44.5	1.29	405	291.8	17.3	5.66	2416	2297	2719
2/23/25 8:00	7.54	279	22.4	4.15	15.3	34.5	42.0	44.5	1.32	405	290.5	17.4	5.53	2461	2358	2719
2/23/25 9:00	7.61	279	23.1	4.16	15.3	35.6	39.2	44.5	1.31	404	261.9	17.4	5.44	2230	2355	2719
2/23/25 10:00	7.50	279	23.2	4.17	15.3	35.8	36.0	44.5	1.27	404	258.9	17.3	5.33	2121	2286	2719
2/23/25 11:00	7.48	281	23.2	4.22	15.3	35.9	35.3	44.5	1.31	405	243.3	17.4	5.31	2051	2219	2718
2/23/25 12:00	7.52	281	22.8	5.27	15.3	38.3	35.8	44.5	1.31	405	258.0	17.4	5.45	2192	2190	2718
2/23/25 13:00	7.53	282	22.0	4.91	15.3	36.0	36.7	44.5	1.29	406	277.6	17.3	5.52	2300	2281	2718
2/23/25 14:00	7.50	282	22.1	4.37	15.3	34.7	36.7	44.5	1.31	408	258.8	17.3	5.76	2170	2266	2718
2/23/25 15:00	7.53	282	22.6	4.39	15.4	35.4	36.3	44.5	1.31	410	295.5	17.3	5.71	2492	2264	2718

Stack CEMS Data

	North Stack					North Stack SO2			South Stack					South Stack SO2		
						1Hr	3Hr	365Day						1 Hr	3Hr	365Day
	Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected			Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected		
Timestamp	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv
2/23/25 16:00	7.56	286	21.3	4.46	15.3	33.6	35.4	44.5	1.33	407	228.5	17.4	5.43	1953	2167	2718
2/23/25 17:00	7.77	288	20.6	4.48	15.3	32.4	34.6	44.5	1.28	406	255.4	17.3	5.80	2183	2140	2718
2/23/25 18:00	7.86	288	20.6	5.26	15.3	34.6	33.8	44.5	1.29	406	262.9	17.4	5.64	2249	2115	2718
2/23/25 19:00	7.90	290	20.8	5.36	15.4	35.2	33.5	44.5	1.29	405	226.6	17.4	5.45	1932	2083	2718
2/23/25 20:00	7.93	291	21.5	4.65	15.6	34.5	34.1	44.5	1.25	405	241.1	17.4	5.55	2073	2062	2718
2/23/25 21:00	7.95	285	21.5	4.58	16.0	34.6	34.8	44.5	1.34	405	234.8	17.3	5.64	1989	2030	2717
2/23/25 22:00	7.78	281	21.2	4.46	15.5	33.6	34.8	44.5	1.28	405	243.5	17.3	5.64	2071	2031	2717
2/23/25 23:00	7.49	279	21.1	4.45	15.5	33.4	34.2	44.5	1.29	407	248.9	17.3	5.82	2113	2085	2717
2/24/25 0:00	7.49	280	20.8	5.25	15.5	35.0	33.8	44.5	1.32	405	229.2	17.4	5.69	1988	2139	2717
2/24/25 1:00	7.50	281	19.8	5.21	15.5	33.2	34.0	44.5	1.30	406	242.8	17.4	5.72	2105	2145	2717
2/24/25 2:00	7.52	281	18.9	4.47	15.5	29.9	33.9	44.5	1.29	407	249.8	17.4	5.70	2143	2135	2717
2/24/25 3:00	7.53	281	18.2	4.45	15.5	28.8	32.7	44.5	1.20	407	253.2	17.3	5.77	2127	2112	2717
2/24/25 4:00	7.54	281	18.0	4.46	15.5	28.4	30.6	44.5	1.26	407	241.6	17.3	5.95	2099	2121	2717
2/24/25 5:00	7.57	282	17.7	4.48	15.5	28.1	29.0	44.5	1.26	407	246.8	17.3	5.96	2158	2114	2717
2/24/25 6:00	7.60	284	17.7	5.27	15.5	29.8	28.4	44.5	1.29	406	234.9	17.4	5.72	2067	2137	2716
2/24/25 7:00	7.68	285	15.6	4.66	15.5	25.1	28.8	44.5	1.29	404	223.7	17.4	5.68	1961	2130	2716
2/24/25 8:00	7.71	289	14.8	4.24	15.4	23.0	27.7	44.5	1.31	403	222.1	17.4	5.80	1958	2091	2716
2/24/25 9:00	7.84	288	15.4	4.20	15.5	23.9	26.0	44.5	1.31	400	210.6	17.5	5.57	1858	2008	2716
2/24/25 10:00	7.69	289	15.4	4.26	15.4	24.0	24.0	44.5	1.28	399	210.4	17.4	5.57	1830	1955	2716
2/24/25 11:00	7.80	294	14.7	4.33	15.4	23.0	23.6	44.5	1.28	398	208.1	17.4	5.47	1808	1911	2716
2/24/25 12:00	7.99	297	13.8	5.54	15.3	23.8	23.6	44.5	1.35	394	191.2	17.6	5.20	1709	1891	2716
2/24/25 13:00	8.03	298	13.4	4.85	15.3	21.8	23.6	44.5	1.32	392	197.5	17.6	5.07	1763	1845	2716
2/24/25 14:00	8.01	296	14.3	4.50	15.4	22.7	22.9	44.5	1.35	392	199.6	17.5	5.22	1780	1822	2715
2/24/25 15:00	7.83	294	15.2	4.51	15.5	24.1	22.8	44.5	1.33	398	209.8	17.6	4.88	1892	1831	2715
2/24/25 16:00	7.76	293	13.9	4.59	15.5	22.2	22.9	44.5	1.22	400	203.8	17.6	4.88	1770	1862	2715
2/24/25 17:00	7.89	296	15.5	4.59	15.4	24.8	23.0	44.5	1.26	402	213.3	17.4	5.34	1826	1870	2715
2/24/25 18:00	7.97	294	16.0	5.36	15.5	27.2	23.7	44.4	1.26	403	212.6	17.4	5.33	1799	1867	2715
2/24/25 19:00	7.88	294	15.6	5.29	15.5	26.4	24.7	44.4	1.25	406	219.6	17.4	5.52	1877	1852	2715
2/24/25 20:00	7.89	292	15.7	4.54	15.6	25.0	26.1	44.4	1.26	409	228.9	17.3	5.72	1940	1871	2714
2/24/25 21:00	7.75	289	15.7	4.85	15.3	25.5	26.2	44.4	1.23	412	250.9	17.1	6.25	2023	1885	2714
2/24/25 22:00	7.80	292	15.7	4.88	15.4	25.6	25.6	44.4	1.28	414	266.6	17.2	5.94	2221	1948	2714
2/24/25 23:00	7.97	290	16.0	4.65	15.5	25.6	25.4	44.4	1.30	413	242.7	17.4	5.66	2104	2084	2714
2/25/25 0:00	7.76	290	16.0	5.25	15.6	27.0	25.6	44.4	1.35	411	239.9	17.4	5.55	2054	2146	2714
2/25/25 1:00	7.78	291	15.8	5.29	15.6	26.7	26.1	44.4	1.25	410	239.8	17.4	5.65	2051	2135	2714
2/25/25 2:00	7.81	290	16.3	4.53	15.7	26.0	26.5	44.4	1.23	413	253.0	17.3	5.82	2130	2061	2714
2/25/25 3:00	7.70	287	16.2	4.51	15.7	25.8	26.6	44.4	1.29	413	245.6	17.3	5.98	2083	2061	2714
2/25/25 4:00	7.60	289	15.1	4.59	15.6	24.1	26.2	44.4	1.23	413	242.7	17.3	6.02	2093	2089	2714
2/25/25 5:00	7.86	293	14.5	4.60	15.6	23.3	25.3	44.4	1.25	411	258.2	17.4	5.90	2267	2117	2714
2/25/25 6:00	7.94	292	15.3	5.35	15.5	25.9	24.4	44.4	1.21	410	245.0	17.3	5.91	2123	2134	2713
2/25/25 7:00	7.93	290	15.2	4.74	15.6	24.6	24.4	44.4	1.30	410	254.9	17.3	5.92	2157	2133	2713
2/25/25 8:00	7.76	289	15.1	4.26	15.6	23.6	24.6	44.4	1.26	411	259.1	17.3	6.11	2223	2116	2713
2/25/25 9:00	7.82	296	13.5	4.32	15.5	21.1	24.7	44.4	1.28	411	246.9	17.3	5.90	2132	2104	2713
2/25/25 10:00	8.01	295	13.1	4.32	15.6	20.5	23.1	44.4	1.23	415	267.5	17.2	6.17	2257	2134	2713
2/25/25 11:00	7.75	288	15.0	4.29	15.6	23.4	21.7	44.4	1.21	415	251.4	17.3	6.24	2179	2195	2713
2/25/25 12:00	7.57	288	15.5	5.48	15.7	26.6	21.7	44.4	1.27	412	248.8	17.4	6.12	2220	2233	2713
2/25/25 13:00	7.62	289	14.3	4.79	15.7	23.3	23.5	44.4	1.25	411	250.8	17.4	5.92	2225	2231	2713
2/25/25 14:00	7.54	292	13.1	4.49	15.7	20.7	24.4	44.4	1.24	415	249.4	17.4	5.78	2184	2215	2713
2/25/25 15:00	7.60	293	13.3	4.55	15.6	21.2	23.5	44.4	1.24	415	237.2	17.4	5.75	2079	2216	2713
2/25/25 16:00	7.65	292	13.9	4.56	15.6	22.2	21.8	44.4	1.24	416	246.7	17.3	5.78	2120	2213	2712
2/25/25 17:00	7.68	291	14.6	4.56	15.6	23.3	21.4	44.4	1.26	415	244.4	17.2	6.07	2071	2180	2712
2/25/25 18:00	7.64	292	13.5	5.36	15.6	23.0	22.2	44.4	1.23	415	245.3	17.4	5.90	2142	2120	2712
2/25/25 19:00	7.77	290	14.4	5.44	15.7	24.6	22.8	44.4	1.23	415	241.5	17.4	5.91	2125	2103	2712
2/25/25 20:00	7.67	292	14.3	4.70	15.6	23.0	23.6	44.4	1.28	413	217.8	17.4	5.73	1896	2065	2712
2/25/25 21:00	7.88	294	14.5	4.79	15.7	23.5	23.5	44.4	1.25	413	227.1	17.4	5.82	2027	2084	2712
2/25/25 22:00	7.91	294	15.1	4.91	15.7	24.8	23.7	44.3	1.30	413	234.5	17.4	5.75	2066	2044	2712
2/25/25 23:00	7.88	291	16.4	4.83	15.6	26.7	23.8	44.3	1.27	411	224.2	17.4	5.71	1942	2057	2712
2/26/25 0:00	7.76	287	17.6	5.43	15.7	30.1	25.0	44.3	1.38	410	258.4	17.4	5.98	2288	2019	2712
2/26/25 1:00	7.60	287	17.4	5.49	15.6	29.9	27.2	44.3	1.29	413	239.4	17.3	5.99	2080	2031	2711
2/26/25 2:00	7.68	287	16.6	4.74	15.5	26.8	28.9	44.3	1.29	413	235.3	17.3	5.90	2038	2026	2711
2/26/25 3:00	7.69	286	17.4	4.65	15.6	28.0	28.9	44.3	1.26	412	234.5	17.4	5.82	2042	2051	2711
2/26/25 4:00	7.69	286	17.7	4.57	15.6	28.3	28.2	44.3	1.25	412	274.0	17.4	5.78	2367	2075	2711
2/26/25 5:00	7.68	286	17.2	4.54	15.6	27.4	27.7	44.3	1.24	412	228.3	17.4	6.00	2039	2095	2711
2/26/25 6:00	7.65	285	17.8	5.31	15.6	30.1	27.9	44.3	1.22	413	235.7	17.4	6.04	2092	2114	2711
2/26/25 7:00	7.67	285	17.0	4.79	15.7	27.6	28.6	44.3	1.31	413	282.1	17.3	5.99	2421	2149	2711
2/26/25 8:00	7.69	285	16.2	4.25	15.6	25.2	28.4	44.3	1.30	413	257.5	17.3	5.77	2199	2228	2711
2/26/25 9:00	7.68	285	14.6	4.23	15.6	22.7	27.7	44.3	1.28	416	259.2	17.3	5.91	2206	2286	2711
2/26/25 10:00	7.58	283	14.1	4.25	15.6	22.0	25.2	44.3	1.29	419	284.5	17.2	5.97	2389	2332	2711
2/26/25 11:00	7.51	284	14.4	4.32	15.6	22.6	23.3	44.3	1.28	417	311.3	17.3	6.00	2649	2489	2711
2/26/25 12:00	7.60	286	14.2	5.40	15.7	24.4	22.5	44.3	1.32	416	286.1	17.3	6.02	2427	2579	2711
2/26/25 13:00	7.68	288	16.1	5.02	15.7	26.7	23.0	44.3	1.30	416	297.2	17.2	6.15	2529	2649	2711
2/26/25 14:00	7.67	286	16.0	4.45	15.7	25.4	24.6	44.3	1.26	416	281.0	17.3	6.11	2426	2535	2711
2/26/25 15:00	7.58	286	15.2	4.47	15.7	24.1	25.5	44.3	1.30	417	311.0	17.3	6.18	2682	2500	2711
2/26/25 16:00	7.67	290	12.9	4.53	15.7	20.6	25.4	44.3	1.21	416	275.4	17.3	5.92	2370	2474	2710
2/26/25 17:00	7.85	292	12.1	4.55	15.6	19.4	23.4	44.3	1.29	415	269.4	17.3	5.93	2343	2452	2710
2/26/25 18:00	7.92	292	13.5	5.52	15.7	23.3	21.4	44.3	1.31	417	264.9	17.3	6.10	2290	2432	2710
2/26/25 19:00	7.82	286	14.3	4.98	15.8	23.7	21.1	44.3	1.29	418	273.6	17.3	6.32	2395	2400	2710
2/26/25 20:00	7.61	283	12.8	4.52	15.8	20.5	22.1	44.3	1.30	419	271.1	17.3	6.23	2371	2406	2710
2/26/25 21:00	7.50	285	12.8	4.61	15.8	20.5	22.5	44.3	1.26	419	279.5	17.3	6.24	2443	2440	2710
2/26/25 22:00	7.71	285	13.3	4.57	15.7	21.2	21.6	44.3	1.31	419	285.8	17.3	6.21	2474	2480	2710
2/26/25 23:00	7.58	284	13.3	4.48	15.8	21.1	20.7	44.3	1.29	418	308.1	17.3	6.22	2657	2514	2710
2/27/25 0:00	7.60	285	16.1	5.63	15.7	28.2	20.9	44.3	1.34	414	298.3	17.3	6.05	2589	2544	2710
2/27/25 1:00	7.60	284	16.4	5.32	15.7	27.8	23.5	44.3	1.33	413	297.3	17.3	6.04	2531	2569	2710
2/27/25 2:00	7.55	283	19.6	4.83	15.7	32.0	25.7	44.3	1.42	412	296.1	17.3	5.99	2505	2542	2710
2/27/25 3:00	7.59	285	18.4	4.71	15.7	29.8	29.3	44.3	1.33	411	274.2	17.2	5.98	2299	2459	2710
2/27/25 4:00	7.61	287	18.6	4.68	15.7	30.1	29.9	44.3	1.36	410	270.1	17.3	5.93	2305	2355	2710
2/27/25 5:00	7.74	287	17.4	4.69	15.7	28.0	30.6	44.2	1.35	410	285.0	17.2	6.03	2347	2301	2710
2/27/25 6:00	7.68	288	19.7	5.75	15.6	34.7	29.3	44.2	1.37	410	285.5	17.2	5.92	2387	2297	2710
2/27/25 7:00	7.86	294	19.6	5.20	15.6	33.3	30.9	44.2	1.34	407	250.6	17.3	5.78	2082	2294	2710
2/27/25 8:00	8.10	293	15.0	4.50	15.6	23.8	32.0	44.2	1.34	408	255.5	17.2	6.04	2158	2255	2710
2/27/25 9:00	8.02	290	14.4	4.35	15.7	22.7	30.6	44.2	1.36	408	244.3	17.3	5.93	2099	2182	2710
2/27/25 10:00	7.81	285	14.6	4.25	15.8	22.9	26.6	44.2	1.35	410	260.9	17.3	5.95	2201	2124	2709
2/27/25 11:00	7.58	286	12.1	4.28	15.8	19.0	23.1	44.2	1.30	413	243.1	17.3	5.83	2044	2142	2709

Stack CEMS Data

	North Stack					North Stack SO2			South Stack					South Stack SO2		
						1Hr	3Hr	365Day						1 Hr	3Hr	365Day
	Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected			Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected		
Timestamp	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv
2/27/25 12:00	7.69	284	15.7	5.49	15.8	27.3	21.5	44.2	1.33	413	280.9	17.3	5.88	2372	2230	2709
2/27/25 13:00	7.54	287	14.4	4.60	15.8	23.2	23.1	44.2	1.27	413	276.8	17.2	6.06	2316	2295	2709
2/27/25 14:00	7.76	293	12.9	4.43	15.7	20.4	23.2	44.2	1.28	414	296.1	17.3	5.77	2499	2301	2709
2/27/25 15:00	7.89	291	12.4	4.45	15.7	19.7	23.6	44.2	1.26	413	281.3	17.3	5.70	2344	2281	2709
2/27/25 16:00	7.78	289	12.8	4.44	15.8	20.3	21.1	44.2	1.25	411	252.6	17.4	5.48	2184	2326	2709
2/27/25 17:00	7.68	287	13.0	4.48	15.8	20.7	20.1	44.2	1.29	409	241.4	17.4	5.42	2036	2336	2709
2/27/25 18:00	7.77	290	12.3	5.41	15.8	21.0	20.2	44.2	1.26	409	266.8	17.3	5.80	2220	2268	2709
2/27/25 19:00	7.89	286	12.0	5.29	15.8	20.4	20.7	44.2	1.26	409	245.5	17.3	5.68	2037	2207	2709
2/27/25 20:00	7.83	287	11.1	4.84	15.5	18.0	20.7	44.2	1.28	411	245.6	17.3	5.91	2059	2149	2709
2/27/25 21:00	7.89	288	11.7	4.85	15.5	19.0	19.8	44.2	1.27	412	266.6	17.3	5.76	2252	2164	2709
2/27/25 22:00	7.89	287	11.7	4.82	15.4	19.0	19.1	44.2	1.27	413	264.1	17.2	5.85	2194	2148	2708
2/27/25 23:00	7.79	286	12.5	4.87	15.4	20.4	18.7	44.2	1.27	411	262.0	17.3	5.66	2224	2204	2708
2/28/25 0:00	7.89	290	13.1	5.85	15.3	23.0	19.5	44.2	1.27	409	261.0	17.4	5.42	2220	2211	2708
2/28/25 1:00	8.02	288	13.1	5.02	15.7	21.8	20.8	44.2	1.26	408	251.0	17.2	6.01	2113	2183	2708
2/28/25 2:00	7.77	287	13.5	4.52	15.7	21.5	21.7	44.2	1.29	407	247.7	17.4	5.82	2147	2130	2708
2/28/25 3:00	7.89	289	13.0	4.52	15.7	20.8	22.1	44.2	1.36	406	254.1	17.4	5.51	2180	2119	2708
2/28/25 4:00	7.93	289	14.0	4.45	15.7	22.1	21.3	44.2	1.26	405	246.5	17.4	5.58	2107	2124	2708
2/28/25 5:00	7.90	286	13.1	4.46	15.7	20.8	21.5	44.2	1.31	406	255.4	17.3	5.66	2160	2125	2708
2/28/25 6:00	7.73	280	15.0	5.49	15.7	25.8	21.2	44.2	1.40	405	256.8	17.3	5.68	2188	2126	2708
2/28/25 7:00	7.64	278	18.5	4.89	15.7	30.5	22.9	44.2	1.36	403	232.5	17.4	5.55	1993	2161	2708
2/28/25 8:00	7.52	276	19.6	4.19	15.7	30.4	25.7	44.1	1.29	408	256.4	17.3	5.77	2188	2179	2708
2/28/25 9:00	7.49	281	18.8	4.18	15.7	29.2	28.9	44.1	1.27	410	257.4	17.3	5.67	2189	2236	2707
2/28/25 10:00	7.75	284	18.4	4.12	15.7	28.4	30.0	44.1	1.27	414	325.2	17.3	5.81	2730	2339	2707
2/28/25 11:00	7.74	284	16.9	4.13	15.6	26.1	29.3	44.1	1.26	413	281.9	17.3	5.73	2383	2455	2707
2/28/25 12:00	7.76	285	16.9	5.57	15.6	29.4	27.9	44.1	1.27	409	272.7	17.3	5.69	2310	2486	2707
2/28/25 13:00	7.79	286	17.3	4.32	15.7	27.1	28.0	44.1	1.31	406	267.4	17.3	5.87	2266	2408	2707
2/28/25 14:00	7.83	286	17.9	4.28	15.7	28.0	27.5	44.1	1.28	405	280.1	17.3	5.86	2387	2335	2707
2/28/25 15:00	7.81	284	18.1	4.25	15.8	28.2	28.2	44.1	1.30	405	274.8	17.2	5.88	2281	2283	2707
2/28/25 16:00	7.71	282	20.2	4.23	15.7	31.6	27.8	44.1	1.29	406	261.2	17.2	5.83	2166	2314	2707
2/28/25 17:00	7.62	284	19.0	4.28	15.6	29.8	29.3	44.1	1.29	411	266.2	17.2	5.97	2212	2311	2707
2/28/25 18:00	7.78	283	19.8	5.38	15.6	33.8	29.9	44.1	1.22	417	265.7	17.2	6.12	2199	2328	2707
2/28/25 19:00	7.51	280	19.9	4.73	15.6	32.2	31.7	44.1	1.26	419	266.0	17.2	6.12	2195	2301	2707
2/28/25 20:00	7.58	280	19.3	4.34	15.5	30.2	31.9	44.1	1.26	422	300.7	17.0	6.33	2408	2347	2707
2/28/25 21:00	7.56	280	20.4	4.27	15.6	31.8	32.1	44.1	1.26	422	319.7	17.1	6.27	2624	2399	2707
2/28/25 22:00	7.53	281	18.6	4.28	15.6	29.1	31.4	44.1	1.30	420	328.4	17.2	6.09	2725	2549	2707
2/28/25 23:00	7.60	283	17.9	4.31	15.5	28.0	30.3	44.1	1.26	416	274.8	17.3	5.60	2252	2590	2707
3/1/25 0:00	7.66	282	18.9	5.17	15.6	31.6	29.6	44.1	1.21	417	306.7	17.1	5.94	2473	2568	2707
3/1/25 1:00	7.57	281	17.7	5.01	15.6	29.3	29.6	44.1	1.25	418	297.9	17.1	6.01	2386	2441	2707
3/1/25 2:00	7.60	285	17.3	4.46	15.4	27.4	29.6	44.1	1.27	415	300.9	17.2	5.52	2398	2403	2707
3/1/25 3:00	7.90	288	16.9	4.54	15.3	26.8	29.4	44.1	1.27	407	274.0	17.3	5.12	2209	2396	2707
3/1/25 4:00	7.98	289	18.1	4.68	15.2	29.0	27.8	44.1	1.39	400	255.3	17.3	5.14	2048	2300	2706
3/1/25 5:00	8.19	295	19.6	4.76	15.1	31.5	27.7	44.1	1.35	395	228.2	17.3	5.25	1855	2157	2706
3/1/25 6:00	8.37	295	20.6	5.79	15.0	36.1	29.1	44.1	1.34	395	250.3	17.5	4.82	2071	2044	2706
3/1/25 7:00	8.44	291	20.1	5.18	15.1	33.8	32.2	44.1	1.30	389	215.6	17.5	4.36	1745	1993	2706
3/1/25 8:00	8.29	287	19.0	4.44	15.2	29.9	33.8	44.1	1.32	391	235.4	17.3	5.19	1863	1933	2706
3/1/25 9:00	8.13	285	19.9	4.46	15.2	31.2	33.2	44.1	1.44	390	229.3	17.3	4.94	1827	1885	2706
3/1/25 10:00	8.07	285	21.3	4.45	15.2	33.4	31.6	44.1	1.36	393	273.3	17.1	5.64	2094	1888	2706
3/1/25 11:00	8.06	287	21.0	4.50	15.2	33.1	31.5	44.1	1.40	396	251.5	17.1	5.60	1961	1928	2706
3/1/25 12:00	8.14	288	23.1	5.71	15.2	40.3	32.6	44.1	1.33	396	265.4	17.2	5.70	2157	1984	2705
3/1/25 13:00	8.07	286	23.3	4.89	15.3	38.0	35.6	44.1	1.36	398	256.7	17.3	5.32	2067	2022	2705
3/1/25 14:00	8.01	287	22.5	4.55	15.2	35.6	37.1	44.1	1.33	400	254.6	17.2	5.45	2030	2069	2705
3/1/25 15:00	8.03	286	22.7	4.51	15.3	35.9	38.0	44.1	1.35	400	274.7	17.2	5.47	2187	2099	2705
3/1/25 16:00	8.06	290	21.3	4.61	15.2	33.9	36.5	44.1	1.45	401	287.9	17.1	5.83	2283	2116	2705
3/1/25 17:00	8.28	292	20.5	4.68	15.1	32.8	35.2	44.1	1.39	401	254.4	17.3	5.23	2076	2135	2705
3/1/25 18:00	8.39	292	21.0	5.95	15.2	37.3	34.2	44.1	1.35	397	257.5	17.3	5.06	2074	2104	2705
3/1/25 19:00	8.42	287	22.0	4.91	15.2	35.8	34.7	44.1	1.32	398	247.8	17.2	5.34	1976	2070	2705
3/1/25 20:00	8.16	286	19.8	4.83	15.1	32.0	35.3	44.1	1.35	401	275.0	17.2	5.41	2175	2060	2705
3/1/25 21:00	8.30	286	19.8	4.52	15.2	31.2	35.0	44.1	1.38	403	262.9	17.2	5.23	2076	2098	2704
3/1/25 22:00	8.20	283	20.5	4.37	15.4	32.1	33.0	44.1	1.34	404	292.9	17.1	5.90	2297	2166	2704
3/1/25 23:00	8.05	287	18.5	4.48	15.2	29.1	31.8	44.1	1.38	404	281.8	17.3	5.36	2315	2242	2704
3/2/25 0:00	8.37	288	19.6	5.72	15.2	34.2	30.8	44.1	1.40	401	285.4	17.1	5.52	2209	2239	2704
3/2/25 1:00	8.29	288	18.1	4.70	15.2	29.1	31.8	44.1	1.48	401	272.0	17.2	5.74	2174	2236	2704
3/2/25 2:00	8.35	283	19.3	4.39	15.3	30.2	30.8	44.1	1.48	399	285.7	17.2	5.91	2323	2236	2704
3/2/25 3:00	8.06	280	20.5	4.49	15.2	32.3	31.1	44.1	1.51	401	313.1	17.1	5.82	2496	2346	2704
3/2/25 4:00	8.09	278	22.5	4.38	15.3	35.2	30.5	44.1	1.54	400	303.5	17.1	5.81	2409	2426	2704
3/2/25 5:00	8.00	276	21.3	4.33	15.3	33.2	32.6	44.1	1.42	400	288.3	17.2	5.70	2322	2486	2704
3/2/25 6:00	7.96	274	19.9	5.69	15.3	34.6	33.6	44.1	1.45	398	1513.8	17.3	5.63	12779	4725	2705
3/2/25 7:00	7.88	274	19.6	4.89	15.4	32.3	34.4	44.1	1.38	398	459.8	17.2	5.70	3733	6630	2706
3/2/25 8:00	7.84	275	19.0	4.39	15.4	29.9	33.4	44.0	1.37	402	321.2	17.2	5.41	2490	6854	2706
3/2/25 9:00	7.87	276	19.3	4.37	15.5	30.2	32.3	44.0	1.41	404	327.1	17.0	5.62	2421	4534	2706
3/2/25 10:00	7.85	278	18.8	4.37	15.5	29.5	30.8	44.0	1.38	404	306.6	17.1	5.39	2332	2684	2706
3/2/25 11:00	7.85	278	17.5	4.38	15.5	27.5	29.9	44.0	1.40	404	296.0	17.2	5.41	2309	2422	2706
3/2/25 12:00	7.84	279	21.4	4.96	15.7	35.3	29.1	44.0	1.36	406	317.7	17.1	5.34	2433	2477	2706
3/2/25 13:00	7.81	276	21.0	5.10	15.9	35.1	30.8	44.0	1.34	405	307.1	17.2	5.42	2399	2387	2706
3/2/25 14:00	7.63	276	21.0	5.01	15.9	34.8	32.6	44.0	1.36	405	368.5	17.2	5.25	2876	3293	2706
3/2/25 15:00	7.75	279	18.5	4.56	15.9	29.6	35.1	44.0	1.39	404	303.1	17.2	5.11	2367	3285	2706
3/2/25 16:00	7.79	279	17.8	4.51	15.7	28.3	33.2	44.0	1.36	407	327.1	17.1	5.62	2539	3339	2706
3/2/25 17:00	7.86	280	17.4	4.52	15.7	27.7	30.9	44.0	1.35	407	295.8	17.2	5.45	2306	2413	2706
3/2/25 18:00	7.87	284	17.0	4.89	15.7	27.9	28.5	44.0	1.35	405	276.8	17.2	5.29	2198	2397	2706
3/2/25 19:00	8.11	286	16.3	4.97	15.7	26.9	28.0	44.0	1.32	405	267.3	17.3	5.31	2141	2282	2706
3/2/25 20:00	8.08	288	14.7	5.14	15.8	24.6	27.5	44.0	1.33	404	265.2	17.3	5.31	2148	2216	2706
3/2/25 21:00	8.23	284	15.1	5.07	15.6	25.0	26.5	44.0	1.32	405	247.7	17.3	5.32	1980	2140	2706
3/2/25 22:00	7.96	279	14.8	4.89	15.7	24.2	25.5	44.0	1.31	405	279.3	17.2	5.42	2233	2115	2706
3/2/25 23:00	7.86	278	13.5	4.71	15.7	21.8	24.6	44.0	1.35	405	272.5	17.2	5.44	2144	2107	2706
3/3/25 0:00	7.86	279	19.5	4.85	15.4	31.7	23.7	44.0	1.32	405	262.9	17.2	5.46	2111	2100	2705
3/3/25 1:00	7.96	278	18.5	4.88	15.5	30.2	25.9	44.0	1.30	403	256.1	17.3	5.40	2117	2103	2705
3/3/25 2:00	7.92	278	18.5	4.90	15.4	30.2	27.9	44.0	1.25	402	243.4	17.3	5.31	1950	2076	2705
3/3/25 3:00	7.93	278	18.4	4.89	15.4	30.1	30.7	44.0	1.34	401	256.6	17.3	5.36	2104	2065	2705
3/3/25 4:00	7.91	277	18.1	4.81	15.5	29.4	30.2	44.0	1.35	402	260.2	17.3	5.39	2110	2038	2705
3/3/25 5:00	7.83	275	18.1	4.68	15.6	29.2	29.9	44.0	1.32	403	235.8	17.3	5.32	1921	2022	2705
3/3/25 6:00	7.75	276	19.0	4.77	15.6	30.8	29.6	44.0	1.32	401	230.9	17.4	5.25	1919	1990	2705
3/3/25 7:00	7.82	279	16.5	4.44	15.6	26.2	29.8	44.0	1.31	399	219.0	17.4	5.16	1840	1966	2705

Stack CEMS Data

	North Stack					North Stack SO2			South Stack					South Stack SO2		
						1Hr	3Hr	365Day						1 Hr	3Hr	365Day
	Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected			Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected		
Timestamp	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv
3/3/25 8:00	7.97	281	15.2	4.28	15.5	23.8	28.7	44.0	1.33	400	255.2	17.3	5.33	2077	1941	2704
3/3/25 9:00	7.93	280	15.2	4.24	15.7	23.7	26.9	44.0	1.32	401	234.3	17.2	5.49	1876	1941	2704
3/3/25 10:00	7.79	282	15.3	4.31	15.6	24.0	24.5	44.0	1.31	402	227.6	17.3	5.48	1907	1941	2704
3/3/25 11:00	7.97	286	15.7	4.36	15.7	24.7	23.8	44.0	1.38	400	266.9	17.3	5.64	2249	1938	2704
3/3/25 12:00	7.98	285	15.2	5.11	15.7	25.3	24.1	44.0	1.32	401	222.8	17.4	5.61	1911	1923	2704
3/3/25 13:00	7.87	283	14.9	5.16	15.8	24.9	24.7	44.0	1.32	400	209.0	17.4	5.58	1821	1899	2704
3/3/25 14:00	7.76	283	14.7	4.55	15.7	23.5	25.0	44.0	1.33	400	199.0	17.4	5.65	1751	1871	2704
3/3/25 15:00	7.76	282	15.5	4.43	15.7	24.6	24.6	44.0	1.29	403	244.9	17.4	5.51	2095	1872	2704
3/3/25 16:00	7.67	282	14.6	4.46	15.6	23.1	24.4	44.0	1.27	404	223.5	17.4	5.10	1887	1913	2703
3/3/25 17:00	7.77	284	14.4	4.46	15.5	22.8	23.7	44.0	1.31	405	221.2	17.4	5.29	1839	1967	2703
3/3/25 18:00	7.88	285	16.0	5.01	15.5	26.3	23.5	44.0	1.31	406	229.6	17.4	5.51	1959	1951	2703
3/3/25 19:00	7.96	286	14.9	5.09	15.5	24.7	24.1	43.9	1.28	406	211.6	17.4	5.33	1791	1923	2703
3/3/25 20:00	7.93	284	15.3	4.96	15.6	25.1	24.6	43.9	1.40	406	224.5	17.4	5.33	1900	1888	2703
3/3/25 21:00	7.85	284	13.8	4.62	15.7	22.2	25.4	43.9	1.32	406	223.9	17.3	5.63	1899	1885	2703
3/3/25 22:00	7.97	285	13.2	4.54	15.5	21.0	24.0	43.9	1.38	405	211.1	17.5	5.43	1842	1905	2703
3/3/25 23:00	7.95	284	13.2	4.51	15.6	21.0	22.8	43.9	1.33	405	230.9	17.3	5.66	1943	1940	2703
3/4/25 0:00	8.01	288	12.7	5.05	15.5	21.1	21.4	43.9	1.29	406	226.7	17.4	5.51	1953	1990	2702
3/4/25 1:00	8.09	287	12.3	5.13	15.6	20.5	21.0	43.9	1.30	406	235.8	17.4	5.45	2034	2009	2702
3/4/25 2:00	8.02	285	12.4	4.99	15.6	20.5	20.9	43.9	1.30	405	224.4	17.4	5.37	1927	1998	2702
3/4/25 3:00	7.91	282	12.7	4.49	15.7	20.2	20.7	43.9	1.31	406	259.6	17.3	5.78	2188	1969	2702
3/4/25 4:00	7.78	285	11.6	4.50	15.7	18.5	20.4	43.9	1.29	407	238.3	17.3	5.75	2030	1943	2702
3/4/25 5:00	7.94	283	11.5	4.45	15.7	18.2	19.7	43.9	1.32	407	226.9	17.4	5.75	1986	1957	2702
3/4/25 6:00	7.76	282	11.6	4.86	15.7	19.0	18.9	43.9	1.25	408	200.5	17.4	5.71	1773	1954	2702
3/4/25 7:00	7.74	282	14.3	4.48	15.7	22.5	18.6	43.9	1.27	411	354.5	17.3	5.94	3046	2060	2702
3/4/25 8:00	7.67	282	16.1	4.19	15.7	25.0	19.9	43.9	1.25	411	296.6	17.3	5.90	2551	2280	2702
3/4/25 9:00	7.73	283	16.2	4.23	15.6	25.2	22.2	43.9	1.25	413	294.8	17.3	6.04	2549	2402	2701
3/4/25 10:00	7.73	283	15.6	4.26	15.8	24.4	24.2	43.9	1.27	413	248.7	17.4	5.76	2208	2498	2701
3/4/25 11:00	7.77	284	15.8	4.27	15.8	24.7	24.9	43.9	1.24	409	226.4	17.4	5.62	1983	2278	2701
3/4/25 12:00	7.71	283	16.7	5.20	15.8	28.0	24.8	43.9	1.25	410	230.9	17.3	5.66	1963	2165	2701
3/4/25 13:00	7.70	286	16.2	5.10	15.6	26.9	25.7	43.9	1.32	411	226.7	17.4	5.65	1938	1988	2701
3/4/25 14:00	7.89	291	15.3	4.48	15.5	24.2	26.6	43.9	1.26	412	206.8	17.4	5.52	1804	2057	2701
3/4/25 15:00	7.94	291	15.0	4.50	15.6	23.8	26.4	43.9	1.26	413	218.2	17.4	5.64	1897	2079	2701
3/4/25 16:00	7.92	288	15.1	4.41	15.7	23.9	25.0	43.9	1.28	414	240.0	17.4	5.64	2070	2067	2701
3/4/25 17:00	7.61	283	14.7	4.40	15.7	23.2	24.0	43.9	1.28	416	243.0	17.4	5.79	2113	2009	2701
3/4/25 18:00	7.58	284	14.6	5.11	15.7	24.2	23.6	43.9	1.30	414	286.2	17.4	5.51	2472	2046	2701
3/4/25 19:00	7.64	284	17.2	5.59	15.6	29.9	23.8	43.9	1.31	411	252.3	17.4	5.82	2203	2129	2700
3/4/25 20:00	7.70	285	21.1	5.15	15.6	35.2	25.8	43.9	1.32	408	202.7	17.5	5.63	1819	2176	2700
3/4/25 21:00	7.74	284	20.1	4.95	15.5	33.0	29.8	43.9	1.30	409	203.2	17.4	5.88	1786	2131	2700
3/4/25 22:00	7.75	284	21.3	5.04	15.6	35.2	32.7	43.9	1.39	407	204.4	17.4	5.86	1802	2025	2700
3/4/25 23:00	7.73	281	24.5	4.91	15.7	40.2	34.5	43.9	1.42	407	230.8	17.4	5.82	2016	1951	2700
3/5/25 0:00	7.54	283	29.6	5.54	15.6	51.1	36.2	43.9	1.38	406	220.1	17.4	5.76	1948	1963	2700
3/5/25 1:00	7.68	283	28.8	5.59	15.6	49.8	42.2	43.9	1.37	407	229.0	17.3	5.70	1924	1971	2700
3/5/25 2:00	7.54	281	27.0	5.20	15.7	45.4	47.0	43.9	1.32	410	226.6	17.3	5.64	1904	1952	2700
3/5/25 3:00	7.56	287	26.5	4.83	15.6	43.2	48.8	43.9	1.24	412	241.3	17.3	5.80	2058	1969	2700
3/5/25 4:00	7.87	287	23.3	4.65	15.6	37.5	46.2	43.9	1.27	412	224.3	17.3	5.89	1907	2006	2699
3/5/25 5:00	7.90	286	22.9	4.54	15.8	36.6	42.1	43.9	1.24	411	221.6	17.3	6.03	1911	2026	2699
3/5/25 6:00	7.80	281	26.4	5.04	15.7	43.9	39.1	43.9	1.28	408	235.5	17.3	6.20	2042	1979	2699
3/5/25 7:00	7.69	281	19.4	4.62	15.9	31.5	39.3	43.9	1.28	390	223.3	17.3	6.26	1956	1972	2699
3/5/25 8:00	7.75	282	17.0	4.40	15.8	26.9	37.3	43.9	1.35	406	203.2	17.3	5.98	1756	1990	2699
3/5/25 9:00	7.80	284	17.1	4.48	15.8	27.2	34.1	43.9	1.35	404	196.2	17.3	6.06	1713	1960	2699
3/5/25 10:00	7.88	284	19.0	4.50	15.8	30.3	28.6	43.8	1.36	406	257.1	17.3	6.22	2221	1892	2699
3/5/25 11:00	7.76	284	19.9	4.51	15.8	31.7	28.1	43.8	1.40	407	254.4	17.3	6.18	2186	1859	2699
3/5/25 12:00	7.73	284	23.5	5.56	15.8	40.7	29.8	43.8	1.36	408	227.2	17.2	6.17	1944	1852	2698
3/5/25 13:00	7.69	283	23.9	5.44	15.8	41.1	34.3	43.8	1.27	407	211.1	17.3	5.99	1848	1881	2698
3/5/25 14:00	7.59	283	24.0	4.74	15.8	38.9	37.8	43.8	1.41	408	230.5	17.3	6.03	1986	1879	2698
3/5/25 15:00	7.70	287	21.9	4.67	15.7	35.2	40.2	43.8	1.32	409	228.3	17.3	5.99	1961	1906	2698
3/5/25 16:00	7.86	286	21.3	4.65	15.8	34.3	38.4	43.8	1.38	412	240.5	17.2	6.24	2010	1959	2698
3/5/25 17:00	7.89	288	20.7	4.56	15.8	33.2	36.1	43.8	1.25	411	225.8	17.2	6.11	1900	1991	2698
3/5/25 18:00	7.89	287	23.2	5.23	15.7	39.2	34.2	43.8	1.31	413	348.5	17.1	6.17	2864	2071	2698
3/5/25 19:00	7.86	288	22.2	5.19	15.8	37.3	35.5	43.8	1.19	414	235.8	17.3	5.95	2044	2105	2698
3/5/25 20:00	7.87	288	20.4	4.46	15.8	32.4	36.5	43.8	1.25	417	267.1	17.2	6.23	2240	2150	2697
3/5/25 21:00	7.91	289	19.7	4.69	15.8	31.8	36.3	43.8	1.22	416	283.8	17.3	6.23	2458	2268	2697
3/5/25 22:00	8.12	289	19.4	4.51	15.7	30.9	33.8	43.8	1.19	412	226.2	17.4	5.86	2008	2326	2697
3/5/25 23:00	8.00	284	20.3	4.40	15.7	32.0	31.7	43.8	1.23	406	209.3	17.5	5.28	1832	2282	2697
3/6/25 0:00	7.87	284	21.1	5.25	15.6	35.7	31.5	43.8	1.23	405	230.0	17.4	5.62	1970	2098	2697
3/6/25 1:00	7.93	284	20.2	5.03	15.6	33.6	32.9	43.8	1.28	403	229.6	17.3	5.53	1924	2079	2697
3/6/25 2:00	7.92	284	20.6	4.39	15.6	32.4	33.7	43.8	1.28	401	211.9	17.4	5.45	1778	2068	2697
3/6/25 3:00	7.93	284	19.8	4.39	15.6	31.1	33.9	43.8	1.26	399	201.5	17.4	5.38	1744	2029	2697
3/6/25 4:00	7.94	284	20.0	4.41	15.6	31.5	32.4	43.8	1.24	399	191.0	17.4	5.35	1612	1842	2697
3/6/25 5:00	7.94	285	19.6	4.40	15.6	30.8	31.7	43.8	1.28	401	214.1	17.3	5.56	1807	1749	2696
3/6/25 6:00	7.96	286	20.2	5.35	15.4	34.3	31.2	43.8	1.28	397	204.9	17.6	4.56	1764	1746	2696
3/6/25 7:00	8.04	288	17.0	4.78	15.4	28.0	32.2	43.8	1.31	396	196.2	17.5	4.76	1658	1770	2696
3/6/25 8:00	8.13	288	12.7	4.22	15.4	19.6	31.0	43.8	1.24	393	207.2	17.4	4.96	1707	1763	2696
3/6/25 9:00	8.08	288	12.5	4.23	15.3	19.4	27.3	43.8	1.24	393	206.5	17.4	4.87	1695	1726	2696
3/6/25 10:00	8.10	289	12.9	4.29	15.3	20.1	22.4	43.8	1.28	390	184.9	17.4	4.74	1517	1703	2696
3/6/25 11:00	8.22	291	13.4	4.34	15.2	20.9	19.7	43.8	1.22	388	326.9	17.5	4.45	2724	1772	2696
3/6/25 12:00	8.27	291	14.3	5.72	15.2	25.0	20.1	43.8	1.32	385	215.1	17.6	4.39	1859	1809	2695
3/6/25 13:00	8.25	291	13.7	4.56	15.2	21.8	22.0	43.8	1.32	386	233.5	17.5	4.57	1951	1835	2695
3/6/25 14:00	8.29	293	12.8	4.44	15.2	20.1	22.6	43.8	1.30	382	179.8	17.7	4.01	1507	1736	2695
3/6/25 15:00	8.34	293	12.0	4.52	15.3	19.0	22.3	43.8	1.31	384	180.7	17.5	4.51	1498	1629	2695
3/6/25 16:00	8.33	293	13.8	4.59	15.2	22.0	20.3	43.8	1.43	384	199.0	17.5	4.46	1661	1544	2695
3/6/25 17:00	8.29	289	14.2	4.56	15.3	22.5	20.3	43.8	1.30	385	189.4	17.4	4.86	1567	1706	2695
3/6/25 18:00	8.13	288	14.9	5.65	15.3	25.9	21.1	43.8	1.29	385	182.9	17.6	4.68	1601	1696	2694
3/6/25 19:00	8.13	289	14.5	5.16	15.1	24.1	23.4	43.8	1.29	386	164.5	17.5	4.65	1372	1772	2694
3/6/25 20:00	8.25	291	14.7	4.87	15.2	23.9	24.1	43.8	1.43	388	167.9	17.5	4.78	1433	1582	2694
3/6/25 21:00	8.32	290	15.7	4.63	15.4	25.1	24.6	43.8	1.28	388	212.8	17.4	4.99	1756	1630	2694
3/6/25 22:00	8.20	288	16.5	4.55	15.4	26.1	24.3	43.8	1.30	393	349.2	17.4	5.32	2909	1704	2694
3/6/25 23:00	8.10	287	15.5	4.47	15.4	24.5	25.0	43.8	1.34	393	171.8	17.4	5.15	1435	1898	2694
3/7/25 0:00	8.15	289	17.1	5.50	15.3	29.3	25.3	43.8	1.27	395	229.0	17.4	5.23	1941	2041	2693
3/7/25 1:00	8.22	291	17.0	4.94	15.3	27.7	26.7	43.8	1.30	394	200.9	17.3	5.16	1633	2052	2693
3/7/25 2:00	8.23	289	16.9	4.43	15.3	26.7	27.2	43.8	1.26	395	189.9	17.4	5.21	1607	1920	2693
3/7/25 3:00	8.17	287	17.4	4.41	15.4	27.4	27.9	43.7	1.26	396	184.7	17.4	5.26	1533	1755	2693

Stack CEMS Data

	North Stack					North Stack SO2			South Stack					South Stack SO2		
						1Hr	3Hr	365Day						1 Hr	3Hr	365Day
	Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected			Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected		
Timestamp	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv
3/7/25 4:00	8.10	287	16.6	4.41	15.4	26.0	27.3	43.7	1.30	398	231.4	17.4	5.27	1945	1821	2693
3/7/25 5:00	8.15	287	16.3	4.40	15.4	25.7	26.7	43.7	1.28	397	250.9	17.4	5.22	2066	2035	2693
3/7/25 6:00	8.11	290	16.1	5.55	15.3	27.7	26.4	43.7	1.30	400	213.0	17.3	5.42	1764	2101	2693
3/7/25 7:00	8.28	291	13.0	4.75	15.4	21.2	26.4	43.7	1.29	395	310.3	17.5	4.86	2615	2157	2693
3/7/25 8:00	8.20	291	9.7	4.23	15.4	15.0	24.8	43.7	1.28	393	194.2	17.6	4.64	1663	2079	2693
3/7/25 9:00	8.20	295	8.5	4.30	15.3	13.3	21.3	43.7	1.28	392	206.4	17.5	4.55	1679	2074	2692
3/7/25 10:00	8.32	297	8.7	4.41	15.4	13.7	16.5	43.7	1.25	392	201.6	17.5	4.57	1678	1973	2692
3/7/25 11:00	8.31	293	9.8	4.45	15.4	15.5	14.0	43.7	1.31	397	227.3	17.5	4.92	1913	2179	2692
3/7/25 12:00	8.12	292	12.2	5.63	15.3	21.2	14.2	43.7	1.31	393	507.7	17.3	5.26	4128	2488	2692
3/7/25 13:00	8.12	292	11.7	5.00	15.4	19.2	16.8	43.7	1.34	391	336.8	17.7	4.54	3007	2793	2692
3/7/25 14:00	8.09	292	11.6	4.54	15.4	18.4	18.7	43.7	1.28	390	174.2	17.6	4.59	1527	2458	2692
3/7/25 15:00	8.09	291	12.2	4.51	15.4	19.2	19.6	43.7	1.24	390	139.4	17.6	4.84	1237	2087	2692
3/7/25 16:00	8.09	291	12.1	4.48	15.4	19.1	19.0	43.7	1.26	392	168.5	17.6	4.82	1458	1766	2692
3/7/25 17:00	8.03	289	12.0	4.46	15.4	19.0	18.9	43.7	1.26	393	521.0	17.6	5.01	4604	2588	2692
3/7/25 18:00	8.02	287	13.3	5.41	15.4	22.7	19.1	43.7	1.28	393	130.0	17.5	5.22	1142	2630	2692
3/7/25 19:00	7.98	288	11.4	5.27	15.4	19.2	20.3	43.7	1.27	394	190.7	17.6	5.33	1726	2895	2692
3/7/25 20:00	8.17	289	11.2	4.90	15.1	18.1	20.3	43.7	1.28	393	250.5	17.7	4.83	2312	2443	2692
3/7/25 21:00	8.22	289	10.7	4.90	15.2	17.5	20.0	43.7	1.25	392	290.1	17.7	4.90	2654	2994	2692
3/7/25 22:00	8.27	292	10.2	4.92	15.1	16.6	18.3	43.7	1.30	391	265.7	17.6	4.97	2409	2907	2692
3/7/25 23:00	8.38	293	10.8	4.81	15.2	17.5	17.4	43.7	1.30	392	198.6	17.6	4.98	1752	2653	2692
3/8/25 0:00	8.30	290	11.8	5.48	15.7	20.2	17.2	43.7	1.27	393	407.2	17.4	5.29	3458	2149	2692
3/8/25 1:00	8.09	290	11.6	4.96	15.7	19.2	18.1	43.7	1.27	391	153.9	17.5	5.19	1369	2002	2692
3/8/25 2:00	8.15	293	11.8	4.53	15.5	18.7	19.0	43.7	1.43	387	175.6	17.5	5.40	1542	1744	2692
3/8/25 3:00	8.31	290	12.7	4.47	15.4	20.1	19.4	43.7	1.38	387	132.3	17.6	5.35	1202	1587	2691
3/8/25 4:00	8.13	287	13.3	4.49	15.4	21.1	19.3	43.6	1.28	389	190.2	17.6	5.23	1754	1423	2691
3/8/25 5:00	8.09	286	14.7	4.44	15.4	23.1	20.0	43.6	1.29	389	143.4	17.6	5.14	1311	1476	2691
3/8/25 6:00	8.05	285	14.2	5.43	15.4	24.3	21.4	43.6	1.30	390	112.7	17.6	5.35	1032	1531	2691
3/8/25 7:00	8.05	285	13.1	4.81	15.4	21.3	22.8	43.6	1.27	389	123.4	17.7	5.06	1139	1365	2690
3/8/25 8:00	8.06	286	11.8	4.27	15.4	18.3	22.9	43.6	1.31	387	124.8	17.6	4.87	1105	1271	2690
3/8/25 9:00	8.09	288	11.6	4.35	15.4	18.1	21.3	43.6	1.32	387	130.7	17.6	4.94	1150	1237	2690
3/8/25 10:00	8.15	290	10.8	4.42	15.4	17.1	19.2	43.6	1.38	390	302.6	17.5	5.13	2652	1567	2690
3/8/25 11:00	8.12	290	10.9	4.44	15.4	17.2	17.8	43.6	1.36	393	173.2	17.5	4.99	1495	1808	2690
3/8/25 12:00	8.12	291	11.5	5.45	15.5	19.7	17.4	43.6	1.34	394	173.1	17.6	4.72	1480	1834	2690
3/8/25 13:00	8.11	291	12.0	5.29	15.5	20.2	18.0	43.6	1.25	394	157.4	17.5	4.95	1327	1580	2689
3/8/25 14:00	8.10	292	11.7	4.64	15.5	18.7	19.0	43.6	1.32	394	168.8	17.6	4.51	1469	1462	2689
3/8/25 15:00	8.16	291	11.7	4.59	15.5	18.7	19.5	43.6	1.28	393	149.0	17.6	4.61	1281	1435	2689
3/8/25 16:00	8.16	291	15.7	4.54	15.4	24.9	19.2	43.6	1.27	391	255.7	17.6	4.47	2192	1491	2689
3/8/25 17:00	8.17	289	19.4	4.48	15.3	30.6	20.8	43.6	1.29	393	352.3	17.4	4.81	2907	1856	2689
3/8/25 18:00	8.14	291	20.3	5.37	15.3	34.5	24.7	43.6	1.32	395	163.4	17.5	4.82	1376	2035	2689
3/8/25 19:00	8.34	292	19.4	5.12	15.3	32.2	30.0	43.6	1.35	397	187.7	17.4	5.14	1568	2070	2688
3/8/25 20:00	8.37	292	18.8	4.72	15.2	30.2	32.4	43.6	1.29	398	185.1	17.4	5.03	1509	1720	2688
3/8/25 21:00	8.44	286	19.9	4.62	15.1	31.6	32.3	43.6	1.30	400	187.1	17.3	5.45	1560	1657	2688
3/8/25 22:00	8.18	283	21.8	4.35	15.4	34.1	31.3	43.6	1.35	402	229.7	17.3	5.31	1873	1682	2688
3/8/25 23:00	8.06	282	21.4	4.34	15.4	33.5	32.0	43.6	1.35	403	250.8	17.3	5.48	2082	1916	2688
3/9/25 0:00	8.07	283	22.4	5.34	15.4	37.9	33.1	43.6	1.30	404	234.4	17.3	5.53	1904	1969	2688
3/9/25 1:00	8.09	284	22.1	4.84	15.4	35.9	35.2	43.6	1.39	405	228.4	17.3	5.53	1859	2015	2688
3/9/25 3:00	8.05	280	22.6	4.28	15.5	35.3	35.8	43.6	1.29	408	241.1	17.3	5.58	1982	1908	2687
3/9/25 4:00	7.82	279	23.4	4.32	15.4	36.6	36.4	43.6	1.33	407	246.8	17.3	5.42	1997	2119	2687
3/9/25 5:00	7.90	279	23.8	4.30	15.5	37.2	35.9	43.6	1.30	407	238.8	17.3	5.53	1961	2151	2687
3/9/25 6:00	7.85	280	25.0	5.22	15.5	41.9	36.4	43.6	1.27	407	231.2	17.3	5.46	1900	2128	2687
3/9/25 7:00	7.88	280	23.6	4.61	15.4	37.8	38.6	43.6	1.30	405	219.6	17.3	5.28	1810	1895	2687
3/9/25 8:00	7.91	280	23.2	4.06	15.4	35.6	39.0	43.6	1.31	404	222.0	17.3	5.28	1784	1875	2687
3/9/25 9:00	7.88	283	23.1	4.12	15.4	35.6	38.4	43.6	1.26	404	200.2	17.3	4.98	1611	1802	2687
3/9/25 10:00	7.94	285	23.3	4.19	15.4	36.1	36.3	43.6	1.38	406	189.9	17.3	5.42	1577	1740	2687
3/9/25 11:00	7.90	286	22.6	4.24	15.4	35.0	35.7	43.6	1.30	407	223.1	17.3	5.39	1805	1650	2686
3/9/25 12:00	7.89	287	23.0	5.23	15.3	38.4	35.6	43.6	1.31	409	228.2	17.2	5.62	1843	1667	2686
3/9/25 13:00	7.91	288	21.7	5.00	15.2	35.6	36.5	43.6	1.25	409	202.4	17.3	5.29	1640	1670	2686
3/9/25 14:00	7.92	288	21.9	4.40	15.2	34.2	36.3	43.6	1.28	409	208.9	17.4	5.17	1746	1685	2686
3/9/25 15:00	7.93	288	21.3	4.46	15.2	33.6	36.1	43.6	1.31	409	198.4	17.3	5.23	1589	1679	2686
3/9/25 16:00	7.91	287	22.1	4.41	15.2	34.6	34.5	43.6	1.30	411	201.5	17.4	5.48	1697	1683	2686
3/9/25 17:00	7.91	287	21.3	4.41	15.3	33.4	34.1	43.6	1.26	409	228.0	17.4	5.19	1932	1722	2685
3/9/25 18:00	7.93	287	22.1	5.20	15.4	37.0	33.9	43.6	1.31	409	234.2	17.3	5.70	1934	1818	2685
3/9/25 19:00	7.90	286	22.2	5.17	15.5	37.0	35.0	43.6	1.28	411	195.6	17.4	5.39	1671	1901	2685
3/9/25 20:00	7.88	287	21.5	4.76	15.5	34.7	35.8	43.6	1.28	412	245.4	17.2	6.00	2026	1960	2685
3/9/25 21:00	8.08	287	22.5	4.50	15.4	35.6	36.2	43.6	1.34	413	200.6	17.3	5.62	1702	1906	2685
3/9/25 22:00	7.95	286	23.8	4.37	15.4	37.4	35.8	43.6	1.23	411	213.2	17.3	5.59	1795	1882	2685
3/9/25 23:00	7.88	285	24.8	4.37	15.4	38.8	35.9	43.6	1.22	411	227.4	17.3	5.54	1875	1779	2685
3/10/25 0:00	7.90	286	25.0	5.14	15.3	41.6	37.3	43.6	1.25	415	288.3	17.2	5.72	2360	1876	2685
3/10/25 1:00	7.89	286	24.9	5.13	15.3	41.4	39.3	43.6	1.31	417	235.8	17.1	5.79	1867	1896	2684
3/10/25 2:00	7.89	287	23.8	4.45	15.3	37.5	40.6	43.6	1.27	417	233.5	17.1	5.91	1863	1954	2684
3/10/25 3:00	7.98	290	22.6	4.48	15.3	35.7	40.2	43.6	1.31	418	232.7	17.2	5.67	1862	1904	2684
3/10/25 4:00	8.10	290	23.3	4.47	15.3	36.7	38.2	43.6	1.28	418	234.0	17.2	5.83	1885	1890	2684
3/10/25 5:00	8.03	287	23.5	4.48	15.4	37.2	36.6	43.6	1.26	419	219.3	17.1	5.99	1744	1895	2684
3/10/25 6:00	7.93	288	24.0	5.18	15.3	40.1	36.5	43.6	1.28	422	398.9	17.0	6.24	3125	2023	2684
3/10/25 7:00	8.00	289	24.2	4.66	15.3	38.7	38.0	43.6	1.28	421	275.1	17.1	6.07	2180	2255	2684
3/10/25 8:00	8.00	289	25.1	4.20	15.3	38.8	38.7	43.5	1.31	421	245.7	17.1	6.08	1975	2344	2684
3/10/25 9:00	7.99	288	25.4	4.21	15.4	39.4	39.2	43.5	1.27	423	295.0	17.0	6.44	2367	2268	2684
3/10/25 10:00	7.95	287	25.3	4.25	15.4	39.3	39.0	43.5	1.28	423	247.0	17.1	6.58	2022	2142	2684
3/10/25 11:00	7.96	287	23.8	4.26	15.5	37.0	39.2	43.5	1.33	424	284.5	17.1	6.76	2431	2253	2683
3/10/25 12:00	7.89	285	24.2	5.18	15.4	40.4	38.6	43.5	1.28	422	243.7	17.2	6.82	2146	2401	2683
3/10/25 13:00	7.78	285	25.0	4.98	15.5	41.1	38.9	43.5	1.29	423	256.9	17.3	6.39	2252	2410	2683
3/10/25 14:00	7.73	286	24.9	4.38	15.5	39.1	39.5	43.5	1.24	419	227.6	17.2	6.30	1947	2360	2683
3/10/25 15:00	7.74	286	24.3	4.38	15.5	38.2	40.2	43.5	1.29	418	479.3	17.2	6.24	4090	2245	2683
3/10/25 16:00	7.74	286	24.3	4.38	15.5	38.1	39.5	43.5	1.23	419	339.3	17.2	6.41	2855	2432	2683
3/10/25 17:00	7.77	285	24.3	4.36	15.5	38.1	38.5	43.5	1.39	422	292.8	17.1	6.58	2405	2491	2683
3/10/25 18:00	7.75	284	22.3	5.18	15.5	37.4	38.1	43.5	1.35	424	310.9	17.0	6.73	2541	2588	2683
3/10/25 19:00	7.73	283	23.3	5.34	15.5	39.5	37.9	43.5	1.38	422	283.2	17.1	6.66	2351	2485	2683
3/10/25 20:00	7.73	284	25.3	4.98	15.2	41.4	38.3	43.5	1.36	421	294.1	17.0	6.66	2412	2453	2683
3/10/25 21:00	7.83	285	25.8	4.92	15.4	42.2	39.4	43.5	1.34	423	307.7	17.0	6.73	2489	2403	2683
3/10/25 22:00	7.89	283	27.9	4.91	15.1	45.3	41.0	43.5	1.35	423	318.3	17.0	6.65	2579	2368	2683
3/10/25 23:00	7.80	283	28.5	4.78	15.1	45.8	43.0	43.5	1.32	425	323.4	17.0	6.69	2579	2394	2683
3/11/25 0:00	7.94	283	23.9	5.55	15.2	40.8	44.5	43.5	1.27	426	319.0	17.0	6.60	2536	2430	2683

Stack CEMS Data

	North Stack					North Stack SO2			South Stack					South Stack SO2		
						1Hr	3Hr	365Day						1 Hr	3Hr	365Day
	Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected			Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected		
Timestamp	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv
3/11/25 1:00	7.86	283	19.8	5.15	15.3	33.0	44.0	43.5	1.31	431	312.8	16.9	6.54	2453	2496	2683
3/11/25 2:00	7.80	282	18.6	4.58	15.3	29.5	39.9	43.5	1.22	430	354.1	17.0	6.45	2772	2524	2683
3/11/25 3:00	7.81	283	17.3	4.51	15.4	27.4	34.5	43.5	1.27	429	318.4	17.0	6.48	2501	2528	2683
3/11/25 4:00	7.80	282	16.1	4.33	15.6	25.2	30.0	43.5	1.25	429	303.5	17.0	6.52	2384	2504	2683
3/11/25 5:00	7.72	282	15.8	4.36	15.6	24.8	27.4	43.5	1.31	429	331.1	16.9	6.72	2616	2487	2683
3/11/25 6:00	7.73	283	16.1	5.23	15.5	27.0	25.8	43.5	1.29	429	329.5	17.1	6.27	2631	2533	2683
3/11/25 7:00	7.74	284	17.1	4.66	15.5	27.6	25.7	43.5	1.30	428	312.3	17.0	6.33	2440	2536	2683
3/11/25 8:00	7.74	285	15.2	4.09	15.5	23.4	26.5	43.5	1.23	430	323.5	16.9	6.30	2452	2516	2683
3/11/25 9:00	7.76	287	15.3	4.14	15.5	23.6	26.0	43.5	1.32	432	326.1	16.9	6.29	2480	2471	2683
3/11/25 10:00	7.80	289	15.4	4.19	15.5	23.8	24.9	43.5	1.24	434	312.6	16.9	6.43	2390	2456	2683
3/11/25 11:00	7.76	291	14.5	4.30	15.6	22.6	23.6	43.5	1.28	436	357.0	16.9	6.52	2729	2513	2683
3/11/25 12:00	7.78	293	15.4	5.31	15.5	26.2	23.3	43.5	1.26	434	331.6	16.9	6.28	2541	2569	2683
3/11/25 13:00	7.77	293	15.2	5.11	15.4	25.2	24.2	43.5	1.30	435	335.5	16.9	6.71	2599	2606	2683
3/11/25 14:00	7.78	292	14.6	4.53	15.4	23.2	24.7	43.5	1.36	434	330.2	17.0	6.46	2579	2624	2683
3/11/25 15:00	7.76	292	15.7	4.56	15.3	25.0	24.9	43.5	1.30	432	330.8	17.0	6.23	2618	2610	2683
3/11/25 16:00	7.77	290	18.4	4.52	15.3	29.2	24.5	43.5	1.29	431	325.9	17.0	5.92	2526	2590	2683
3/11/25 17:00	7.71	288	18.0	4.49	15.3	28.4	25.8	43.5	1.28	429	321.5	17.0	5.79	2460	2555	2683
3/11/25 18:00	7.71	287	17.9	5.51	15.2	30.8	27.5	43.5	1.27	426	303.5	17.1	5.87	2360	2467	2683
3/11/25 19:00	7.72	288	18.1	4.95	15.3	29.7	29.4	43.5	1.36	424	294.5	17.0	6.24	2279	2396	2682
3/11/25 20:00	7.81	283	18.8	4.42	15.4	29.5	29.6	43.5	1.27	425	301.9	17.1	6.04	2381	2321	2682
3/11/25 21:00	7.60	283	18.8	4.36	15.5	29.6	30.0	43.5	1.34	423	286.3	17.1	5.87	2252	2326	2682
3/11/25 22:00	7.72	282	20.4	4.34	15.3	31.9	29.6	43.5	1.32	423	294.0	17.0	6.11	2296	2337	2682
3/11/25 23:00	7.68	282	20.8	4.33	15.3	32.4	30.3	43.5	1.40	421	306.7	17.1	6.27	2451	2350	2682
3/12/25 0:00	7.68	281	20.0	5.48	15.3	34.1	31.3	43.5	1.41	417	292.9	17.1	6.18	2385	2344	2682
3/12/25 1:00	7.61	279	18.3	4.76	15.3	29.5	32.8	43.5	1.42	416	298.9	17.1	6.08	2404	2375	2682
3/12/25 2:00	7.60	279	21.1	4.58	15.3	33.6	32.0	43.5	1.48	416	309.9	17.1	6.07	2511	2406	2682
3/12/25 3:00	7.56	279	23.7	4.70	15.2	38.0	32.4	43.5	1.36	414	288.4	17.1	6.07	2329	2437	2682
3/12/25 4:00	7.57	279	26.4	4.74	15.1	42.3	33.7	43.5	1.40	415	320.3	17.1	6.06	2609	2473	2682
3/12/25 5:00	7.57	278	28.2	4.66	15.1	44.9	38.0	43.5	1.41	413	290.4	17.2	6.03	2383	2504	2682
3/12/25 6:00	7.57	278	26.8	5.70	15.1	46.5	41.7	43.5	1.39	415	280.0	17.2	6.18	2309	2462	2682
3/12/25 7:00	7.65	279	22.6	4.84	15.3	37.1	44.6	43.5	1.38	416	268.3	17.2	6.08	2205	2374	2682
3/12/25 8:00	7.57	277	19.3	4.12	15.3	29.6	42.8	43.5	1.41	416	266.5	17.2	6.04	2207	2256	2682
3/12/25 9:00	7.60	281	18.2	4.14	15.2	28.0	37.7	43.5	1.33	417	273.2	17.2	5.93	2267	2200	2682
3/12/25 10:00	7.69	281	20.6	4.20	15.2	31.9	31.6	43.5	1.30	418	247.7	17.2	5.91	2061	2144	2682
3/12/25 11:00	7.66	279	20.5	4.15	15.3	31.5	29.8	43.5	1.29	418	245.7	17.2	5.90	2021	2078	2681
3/12/25 12:00	7.44	278	22.1	5.64	15.2	38.4	30.5	43.5	1.38	418	250.4	17.1	5.98	2004	2034	2681
3/12/25 13:00	7.45	277	20.8	4.34	15.2	32.4	33.9	43.5	1.38	415	277.4	17.1	5.99	2219	2025	2681
3/12/25 14:00	7.49	280	21.2	4.42	15.2	33.3	34.1	43.5	1.25	371	279.3	18.1	5.22	3273	2112	2681
3/12/25 15:00	7.65	281	23.3	4.51	15.1	36.7	34.7	43.5	1.29	324	242.8	18.2	5.26	3003	2353	2681
3/12/25 16:00	7.66	281	24.3	4.56	15.1	38.4	34.1	43.5	1.30	370	243.0	17.3	5.90	2034	2363	2681
3/12/25 17:00	7.67	282	25.6	4.61	15.1	40.8	36.1	43.5	1.35	378	238.3	17.3	5.89	2039	2294	2681
3/12/25 18:00	7.78	281	28.1	5.73	15.1	49.0	38.6	43.5	1.36	380	243.5	17.3	5.96	2068	2066	2681
3/12/25 19:00	7.69	282	26.8	4.95	15.2	43.8	42.7	43.5	1.36	382	249.0	17.3	5.95	2117	2077	2681
3/12/25 20:00	7.77	282	26.0	4.51	15.3	41.1	44.5	43.5	1.43	382	254.9	17.3	5.96	2143	2094	2681
3/12/25 21:00	7.71	283	27.5	4.89	15.0	44.6	44.6	43.5	1.35	386	302.3	17.2	6.15	2515	2224	2681
3/12/25 22:00	7.87	284	27.9	4.78	15.3	45.1	43.2	43.5	1.38	387	274.3	17.2	6.06	2267	2305	2681
3/12/25 23:00	7.87	281	27.3	4.45	15.4	43.1	43.6	43.5	1.38	385	266.8	17.2	6.02	2234	2339	2681
3/13/25 0:00	7.63	279	28.0	5.53	15.4	48.1	44.3	43.5	1.33	387	274.8	17.2	6.04	2277	2269	2680
3/13/25 1:00	7.51	279	26.4	4.74	15.4	42.6	45.4	43.5	1.35	388	272.1	17.2	6.05	2245	2237	2680
3/13/25 2:00	7.72	282	26.6	4.46	15.4	42.0	44.6	43.5	1.39	390	350.8	17.1	6.19	2852	2326	2680
3/13/25 3:00	7.73	282	26.0	4.44	15.4	40.9	44.3	43.5	1.40	388	276.0	17.2	5.98	2306	2399	2680
3/13/25 4:00	7.69	278	27.0	4.36	15.4	42.3	41.9	43.5	1.35	389	269.9	17.2	5.98	2237	2401	2680
3/13/25 5:00	7.48	275	28.4	4.32	15.3	44.3	41.8	43.5	1.36	388	281.4	17.2	5.97	2322	2353	2680
3/13/25 6:00	7.35	274	31.6	5.57	15.2	54.4	42.5	43.5	1.39	389	315.4	17.2	5.94	2582	2374	2680
3/13/25 7:00	7.46	276	26.4	4.76	15.3	43.5	47.0	43.5	1.39	389	335.7	17.2	5.85	2738	2511	2680
3/13/25 8:00	7.50	276	19.3	4.03	15.3	29.4	47.4	43.5	1.43	387	288.8	17.2	5.83	2339	2587	2680
3/13/25 9:00	7.45	275	17.0	3.99	15.4	25.8	42.4	43.5	1.40	388	292.7	17.2	5.92	2361	2550	2680
3/13/25 10:00	7.21	279	18.0	4.40	15.1	28.2	32.9	43.5	1.34	390	317.9	17.1	6.08	2570	2512	2680
3/13/25 11:00	7.59	280	17.8	4.20	15.3	27.5	27.8	43.5	1.38	394	345.0	17.1	6.24	2811	2560	2680
3/13/25 12:00	7.62	279	18.9	5.36	15.3	32.2	27.2	43.4	1.28	398	394.9	17.1	6.27	3240	2679	2680
3/13/25 13:00	7.66	279	18.6	4.66	15.4	29.9	29.3	43.4	1.24	397	0.3	17.1	6.28	2	2255	2680
3/13/25 14:00	7.64	279	17.6	4.26	15.4	27.4	29.9	43.4	1.28	397	332.5	17.2	6.20	2834	1909	2680
3/13/25 15:00	7.65	279	16.5	4.27	15.4	25.7	29.8	43.4	1.27	397	327.2	17.3	6.13	2806	2082	2680
3/13/25 16:00	7.67	278	15.7	4.25	15.5	24.4	27.7	43.4	1.23	393	279.6	17.3	5.88	2404	2492	2680
3/13/25 17:00	7.62	278	14.9	4.25	15.5	23.2	25.8	43.4	1.29	393	284.2	17.3	5.92	2451	2765	2680
3/13/25 18:00	7.58	277	15.5	5.31	15.6	26.3	24.4	43.4	1.32	393	309.2	17.3	6.04	2653	2513	2680
3/13/25 19:00	7.60	279	13.4	4.73	15.7	21.8	24.6	43.4	1.34	394	306.6	17.2	6.11	2599	2562	2680
3/13/25 20:00	7.75	278	14.6	4.26	15.7	22.9	23.8	43.4	1.21	397	334.7	17.2	6.30	2784	2661	2680
3/13/25 21:00	7.61	277	14.9	4.24	15.7	23.3	23.6	43.4	1.26	395	317.2	17.3	6.24	2755	2783	2680
3/13/25 22:00	7.54	277	13.8	4.34	15.7	21.6	22.6	43.4	1.30	394	311.6	17.2	6.21	2612	2750	2680
3/13/25 23:00	7.61	279	14.3	4.57	15.6	22.8	22.6	43.4	1.28	393	314.4	17.2	6.07	2642	2702	2680
3/14/25 0:00	7.80	279	12.8	5.54	15.4	22.1	22.6	43.4	1.24	396	341.7	17.2	6.16	2821	2622	2680
3/14/25 1:00	7.73	278	13.6	5.18	15.4	22.8	22.2	43.4	1.25	397	328.0	17.2	6.17	2733	2685	2680
3/14/25 2:00	7.72	277	13.4	4.51	15.5	21.2	22.6	43.4	1.23	397	327.5	17.2	6.17	2753	2731	2680
3/14/25 3:00	7.66	276	14.4	4.32	15.6	22.6	22.0	43.4	1.22	397	333.4	17.2	6.33	2805	2772	2680
3/14/25 4:00	7.59	276	13.0	4.33	15.6	20.3	22.2	43.4	1.29	396	316.9	17.2	6.17	2644	2767	2680
3/14/25 5:00	7.61	276	14.5	4.48	15.6	23.0	21.4	43.4	1.27	395	318.2	17.2	6.21	2716	2746	2680
3/14/25 6:00	7.59	277	16.9	5.56	15.6	29.1	22.0	43.4	1.33	390	311.6	17.2	6.09	2631	2692	2680
3/14/25 7:00	7.62	276	19.6	5.04	15.5	32.4	24.2	43.4	1.25	392	329.0	17.2	6.07	2776	2642	2680
3/14/25 8:00	7.62	278	18.9	4.46	15.5	29.8	28.2	43.4	1.34	389	308.7	17.2	6.08	2577	2627	2680
3/14/25 9:00	7.64	279	20.4	4.53	15.4	32.3	30.5	43.4	1.27	389	299.0	17.3	6.03	2571	2610	2680
3/14/25 10:00	7.56	280	19.4	4.51	15.5	30.9	31.5	43.4	1.23	390	319.4	17.3	6.18	2740	2616	2680
3/14/25 11:00	7.58	281	20.3	4.66	15.5	32.6	31.0	43.4	1.35	390	311.9	17.2	6.14	2649	2644	2680
3/14/25 12:00	7.62	283	22.0	5.63	15.4	38.2	31.9	43.4	1.33	390	317.8	17.2	6.05	2645	2675	2680
3/14/25 13:00	7.62	284	21.6	5.69	15.4	37.6	33.9	43.4	1.35	391	317.4	17.2	6.05	2669	2694	2680
3/14/25 14:00	7.74	287	20.2	4.85	15.4	32.9	36.1	43.4	1.38	391	309.4	17.2	6.14	2631	2677	2680
3/14/25 15:00	7.82	287	19.5	4.76	15.4	31.5	36.2	43.4	1.31	394	325.1	17.1	6.41	2724	2696	2680
3/14/25 16:00	7.83	287	19.7	4.69	15.5	31.7	34.0	43.4	1.35	394	341.4	17.2	6.38	2891	2731	2680
3/14/25 17:00	7.81	287	21.0	4.69	15.5	33.9	32.0	43.4	1.33	394	353.5	17.2	6.38	2992	2807	2680
3/14/25 18:00	7.81	286	24.8	5.38	15.5	42.2	32.4	43.4	1.28	393	335.3	17.2	6.29	2861	2852	2680
3/14/25 19:00	7.78	286	25.1	5.70	15.5	43.7	35.9	43.4	1.36	393	354.7	17.2	6.28	3010	2871	2680
3/14/25 20:00	7.81	287	23.2	5.15	15.4	38.6	39.9	43.4	1.33	392	344.6	17.2	6.09	2905	2867	2680

Stack CEMS Data

	North Stack					North Stack SO2			South Stack					South Stack SO2		
						1Hr	3Hr	365Day						1 Hr	3Hr	365Day
	Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected			Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected		
Timestamp	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv
3/14/25 21:00	7.84	289	24.0	5.30	15.4	40.4	41.5	43.4	1.37	394	337.3	17.2	6.24	2812	2874	2680
3/14/25 22:00	8.02	288	24.3	4.98	15.4	39.9	40.9	43.4	1.37	393	316.5	17.3	6.14	2702	2830	2680
3/14/25 23:00	7.85	286	25.4	4.85	15.5	41.3	39.6	43.4	1.32	394	316.5	17.2	6.17	2661	2755	2680
3/15/25 0:00	7.80	285	26.8	5.33	15.5	45.4	40.5	43.4	1.35	396	334.7	17.1	6.38	2726	2695	2680
3/15/25 1:00	7.78	285	23.7	5.42	15.6	40.5	42.2	43.4	1.24	396	318.2	17.1	6.28	2636	2690	2680
3/15/25 2:00	7.74	284	25.1	4.73	15.6	40.5	42.4	43.4	1.35	398	330.6	17.1	6.36	2737	2711	2680
3/15/25 3:00	7.73	285	25.5	4.70	15.6	41.1	42.1	43.4	1.31	397	332.4	17.1	6.50	2750	2738	2680
3/15/25 4:00	7.81	285	25.0	4.61	15.6	40.0	40.7	43.4	1.23	397	332.3	17.1	6.55	2765	2763	2680
3/15/25 5:00	7.75	284	25.1	4.52	15.6	39.9	40.5	43.4	1.21	398	335.9	17.1	6.55	2805	2776	2680
3/15/25 6:00	7.76	284	24.3	5.13	15.6	40.5	40.3	43.4	1.28	399	340.9	17.1	6.50	2854	2781	2680
3/15/25 7:00	7.76	284	18.3	4.59	15.6	29.6	40.2	43.4	1.30	397	337.7	17.1	6.44	2787	2782	2680
3/15/25 8:00	7.76	284	16.7	4.15	15.6	25.8	36.7	43.4	1.32	397	353.7	17.1	6.48	2929	2798	2680
3/15/25 9:00	7.76	286	17.0	4.27	15.6	26.5	32.0	43.4	1.28	396	321.4	17.1	6.31	2655	2774	2680
3/15/25 10:00	7.76	285	17.1	4.38	15.7	26.9	27.3	43.4	1.35	397	323.8	17.1	6.41	2646	2738	2680
3/15/25 11:00	7.74	284	17.8	4.36	15.8	28.0	26.4	43.4	1.26	396	313.6	17.1	6.43	2556	2692	2680
3/15/25 12:00	7.73	285	20.5	5.62	15.6	35.8	27.2	43.4	1.17	399	321.4	17.1	6.42	2671	2685	2680
3/15/25 13:00	7.73	286	19.4	4.51	15.6	30.9	30.2	43.4	1.30	398	308.9	17.1	6.43	2545	2669	2680
3/15/25 14:00	7.72	287	19.0	4.36	15.7	29.8	31.6	43.4	1.27	399	311.1	17.1	6.56	2559	2643	2680
3/15/25 15:00	7.71	290	17.5	4.46	15.7	27.7	32.2	43.3	1.34	400	327.0	17.0	6.76	2695	2641	2680
3/15/25 16:00	7.76	292	16.4	4.51	15.5	26.0	29.5	43.3	1.31	402	380.1	17.0	6.74	3122	2678	2680
3/15/25 17:00	7.78	291	16.3	4.55	15.5	25.9	27.8	43.3	1.23	402	324.9	17.1	6.62	2705	2746	2680
3/15/25 18:00	7.74	299	15.6	5.67	15.3	27.0	26.5	43.3	1.31	400	340.0	17.1	6.69	2833	2791	2680
3/15/25 19:00	7.96	303	14.9	5.56	15.3	25.6	26.3	43.3	1.27	398	332.1	17.1	6.60	2767	2787	2680
3/15/25 20:00	7.98	302	13.6	4.82	15.4	22.0	26.2	43.3	1.25	399	332.9	17.1	6.59	2765	2752	2680
3/15/25 21:00	7.87	297	13.4	5.02	15.4	22.1	24.9	43.3	1.27	400	341.8	17.0	6.68	2814	2715	2680
3/15/25 22:00	8.01	295	13.0	4.82	15.5	21.1	23.2	43.3	1.19	403	331.5	17.1	6.64	2792	2725	2680
3/15/25 23:00	7.91	296	11.2	4.76	15.6	18.2	21.7	43.3	1.25	405	334.7	17.1	6.72	2815	2762	2680
3/16/25 0:00	7.93	301	11.4	5.70	15.5	20.0	20.5	43.3	1.22	400	312.7	17.1	6.39	2605	2754	2680
3/16/25 1:00	8.03	303	10.2	5.52	15.4	17.5	19.8	43.3	1.25	404	338.1	17.0	6.70	2776	2751	2680
3/16/25 2:00	8.00	301	10.9	4.85	15.4	17.7	18.6	43.3	1.20	404	485.0	17.1	6.59	4008	2779	2680
3/16/25 3:00	7.93	298	11.7	4.79	15.5	19.0	18.4	43.3	1.28	403	679.6	17.1	6.69	5697	3774	2681
3/16/25 4:00	7.92	291	10.6	4.48	15.9	16.8	18.1	43.3	1.22	406	573.5	17.1	6.85	4807	4763	2681
3/16/25 5:00	7.86	287	9.9	4.43	16.1	15.8	17.8	43.3	1.21	404	318.7	17.1	6.89	2703	4843	2681
3/16/25 6:00	7.89	286	10.3	5.29	15.8	17.5	17.2	43.3	1.22	406	320.9	17.0	7.06	2656	3857	2681
3/16/25 7:00	7.92	285	12.4	4.72	15.7	19.9	16.7	43.3	1.31	400	336.0	17.1	6.64	2799	2873	2681
3/16/25 8:00	7.91	286	14.1	4.11	15.8	21.8	17.7	43.3	1.30	399	357.6	17.0	6.72	2923	2768	2681
3/16/25 9:00	7.97	288	14.8	4.23	15.8	23.2	19.7	43.3	1.33	398	321.2	17.0	6.82	2670	2771	2681
3/16/25 10:00	7.96	288	15.4	4.18	16.0	24.1	21.6	43.3	1.20	402	316.1	17.0	6.98	2588	2721	2681
3/16/25 11:00	7.91	290	12.7	4.20	16.0	19.9	23.0	43.3	1.21	405	329.5	17.0	6.99	2746	2642	2681
3/16/25 12:00	7.92	290	11.9	5.57	16.2	20.7	22.4	43.3	1.22	397	306.5	17.1	6.72	2579	2640	2681
3/16/25 13:00	7.91	290	10.7	4.38	16.3	17.0	21.6	43.3	1.21	403	381.3	16.9	7.09	3106	2699	2681
3/16/25 14:00	8.04	290	11.2	4.32	16.2	17.6	19.2	43.3	1.19	396	296.8	17.0	6.95	2491	2826	2681
3/16/25 15:00	7.91	289	10.3	4.33	16.1	16.3	18.5	43.3	1.24	400	359.4	17.1	6.58	3050	2804	2681
3/16/25 16:00	7.73	285	9.9	4.33	16.2	15.7	17.0	43.3	1.24	398	307.6	17.1	6.62	2560	2790	2681
3/16/25 17:00	7.64	284	9.7	4.34	15.9	15.3	16.5	43.3	1.26	396	297.6	17.1	6.28	2417	2612	2681
3/16/25 18:00	7.67	287	11.6	5.48	15.7	20.0	15.8	43.2	1.22	393	281.5	17.1	5.98	2269	2536	2681
3/16/25 19:00	7.96	288	11.4	4.83	15.6	18.6	17.0	43.2	1.31	394	312.5	17.2	5.94	2604	2455	2681
3/16/25 20:00	8.02	288	12.3	4.56	15.6	19.6	18.0	43.2	1.28	393	279.9	17.2	6.09	2295	2426	2681
3/16/25 21:00	8.12	285	12.6	4.62	15.4	20.1	19.4	43.2	1.25	394	296.6	17.2	6.17	2453	2397	2681
3/16/25 22:00	7.90	281	13.7	4.31	15.5	21.4	19.5	43.2	1.28	391	272.3	17.2	5.92	2243	2338	2681
3/16/25 23:00	7.67	278	13.7	4.28	15.5	21.3	20.4	43.2	1.28	389	280.9	17.2	6.06	2314	2325	2681
3/17/25 0:00	7.55	277	14.3	5.54	15.5	24.7	21.0	43.2	1.28	390	284.0	17.1	6.28	2317	2304	2681
3/17/25 1:00	7.58	277	15.7	4.50	15.4	24.9	22.5	43.2	1.34	389	293.9	17.1	6.20	2401	2323	2681
3/17/25 2:00	7.63	278	16.2	4.29	15.4	25.2	23.7	43.2	1.28	388	289.3	17.2	5.85	2406	2331	2681
3/17/25 3:00	7.65	277	16.3	4.24	15.4	25.3	25.0	43.2	1.28	388	277.4	17.2	6.02	2271	2356	2681
3/17/25 4:00	7.56	275	16.3	4.21	15.4	25.2	25.1	43.2	1.28	388	280.9	17.2	6.03	2372	2351	2681
3/17/25 5:00	7.48	280	16.1	4.26	15.4	25.0	25.3	43.2	1.35	387	289.5	17.2	5.95	2425	2353	2681
3/17/25 6:00	7.86	281	16.6	5.57	15.4	28.7	25.2	43.2	1.26	386	278.4	17.3	5.68	2298	2346	2681
3/17/25 7:00	7.73	279	18.5	4.58	15.5	29.4	26.3	43.2	1.31	385	271.1	17.1	6.05	2197	2317	2681
3/17/25 8:00	7.66	281	18.1	4.13	15.4	27.8	27.7	43.2	1.30	386	267.3	17.2	6.05	2227	2302	2681
3/17/25 9:00	7.90	281	18.0	4.13	15.4	27.8	28.7	43.2	1.43	385	288.6	17.2	6.14	2430	2316	2681
3/17/25 10:00	7.84	280	18.2	4.13	15.5	28.1	28.3	43.2	1.42	386	313.5	17.2	6.14	2597	2387	2680
3/17/25 11:00	7.72	281	17.1	4.19	15.4	26.4	27.9	43.2	1.39	387	293.7	17.2	5.92	2456	2472	2680
3/17/25 12:00	7.78	283	16.5	5.35	15.4	28.0	27.4	43.2	1.31	388	306.4	17.2	5.84	2534	2498	2680
3/17/25 13:00	7.81	283	16.2	4.82	15.4	26.2	27.5	43.2	1.29	390	285.3	17.3	5.78	2374	2500	2680
3/17/25 14:00	7.75	284	15.6	4.41	15.5	24.6	26.9	43.2	1.36	391	314.9	17.2	6.15	2590	2490	2680
3/17/25 15:00	7.73	283	15.2	4.43	15.5	24.1	26.3	43.2	1.32	395	316.8	17.2	6.29	2684	2557	2680
3/17/25 16:00	7.79	282	14.8	4.39	15.6	23.3	25.0	43.2	1.29	393	330.3	17.2	6.20	2788	2604	2680
3/17/25 17:00	7.79	281	14.4	4.37	15.7	22.7	24.0	43.2	1.14	281	332.6	18.3	4.55	3993	2811	2680
3/17/25 18:00	7.77	281	12.8	5.40	15.7	21.9	23.3	43.2	0.96	190	343.2	17.9	4.73	3387	3203	2681
3/17/25 19:00	7.75	282	13.0	4.84	15.8	21.3	22.6	43.2	0.87	150	225.1	19.0	3.76	3782	5955	2682
3/17/25 20:00	7.71	282	13.4	4.48	15.8	21.3	22.0	43.2	1.18	194	169.2	17.9	5.41	1822	5712	2682
3/17/25 21:00	7.83	284	12.9	4.76	15.5	20.9	21.5	43.2	1.28	285	137.9	17.5	5.68	1246	4931	2682
3/17/25 22:00	7.98	285	12.3	4.73	15.5	19.9	21.2	43.2	1.22	326	192.6	17.5	5.70	1765	1720	2681
3/17/25 23:00	8.01	283	12.6	4.42	15.8	20.0	20.7	43.2	1.25	344	357.3	17.4	5.70	3167	2052	2682
3/18/25 0:00	7.83	282	13.3	5.44	15.8	22.9	20.3	43.2	1.27	356	242.2	17.5	5.68	2207	2381	2682
3/18/25 1:00	7.84	282	13.6	4.89	15.8	22.4	20.9	43.2	1.24	358	228.8	17.5	5.76	2066	2673	2681
3/18/25 2:00	7.82	281	13.3	4.41	15.7	21.0	21.7	43.1	1.28	360	249.8	17.4	5.89	2186	2238	2681
3/18/25 3:00	7.80	281	13.4	4.40	15.7	21.2	22.1	43.1	1.29	362	256.0	17.4	5.77	2286	2177	2681
3/18/25 4:00	7.83	281	13.5	4.38	15.8	21.4	21.6	43.1	1.25	363	317.6	17.4	5.71	2757	2249	2681
3/18/25 5:00	7.80	280	12.9	4.36	15.8	20.4	21.2	43.1	1.23	366	302.8	17.3	6.13	2626	2456	2681
3/18/25 6:00	7.77	282	13.5	5.44	15.7	23.1	21.0	43.1	1.28	371	380.9	17.3	6.18	3283	2751	2681
3/18/25 7:00	7.88	282	14.2	4.81	15.7	23.2	21.6	43.1	1.28	372	317.4	17.2	6.26	2732	2907	2681
3/18/25 8:00	7.86	283	13.4	4.14	15.7	20.8	22.2	43.1	1.28	376	317.8	17.1	6.14	2601	2884	2681
3/18/25 9:00	7.82	284	13.6	4.17	15.7	21.0	22.4	43.1	1.32	379	306.0	17.2	6.13	2522	2714	2681
3/18/25 10:00	7.82	285	12.9	4.22	15.7	20.0	21.7	43.1	1.31	381	344.9	17.2	6.19	2851	2675	2681
3/18/25 11:00	7.81	284	12.2	4.24	15.7	19.1	20.6	43.1	1.26	384	347.3	17.1	6.37	2866	2779	2681
3/18/25 12:00	7.67	282	11.7	5.24	15.8	19.9	20.0	43.1	1.26	387	368.6	17.1	6.50	3035	2858	2681
3/18/25 13:00	7.55	283	10.4	4.93	15.9	17.2	19.7	43.1	1.30	389	361.6	17.1	6.48	3005	2960	2681
3/18/25 14:00	7.59	285	10.1	4.41	15.9	15.9	18.7	43.1	1.24	385	378.1	17.1	6.39	3120	2959	2682
3/18/25 15:00	7.60	284	8.9	4.44	15.8	14.1	17.7	43.1	1.27	386	355.6	17.1	6.35	2943	2989	2682
3/18/25 16:00	7.56	285	8.3	4.42	15.8	13.2	15.7	43.1	1.20	387	348.6	17.1	6.40	2902	2998	2682

Stack CEMS Data

	North Stack					North Stack SO2			South Stack					South Stack SO2		
						1Hr	3Hr	365Day						1 Hr	3Hr	365Day
	Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected			Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected		
Timestamp	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv
3/18/25 17:00	7.59	285	7.1	4.43	15.8	11.2	14.4	43.1	1.21	390	341.1	17.1	6.42	2825	3005	2682
3/18/25 18:00	7.55	285	6.5	5.19	15.8	11.0	12.9	43.1	1.20	393	364.1	17.1	6.60	3028	3012	2682
3/18/25 19:00	7.53	285	6.9	5.48	15.7	11.9	11.8	43.1	1.24	394	365.0	17.1	6.61	2999	3025	2682
3/18/25 20:00	7.64	286	12.4	5.15	15.6	20.7	11.4	43.1	1.42	388	368.2	17.2	6.47	3122	3070	2682
3/18/25 21:00	7.79	280	14.5	5.04	15.9	24.3	14.5	43.1	1.36	385	357.8	17.1	6.56	3025	3090	2682
3/18/25 22:00	7.52	272	15.6	4.48	16.3	25.1	19.0	43.1	1.39	383	361.0	17.1	6.54	3008	3064	2682
3/18/25 23:00	7.05	271	18.0	4.51	16.4	28.9	23.3	43.1	1.33	383	359.5	17.1	6.44	3000	3005	2682
3/19/25 0:00	6.98	273	23.9	5.26	16.2	40.9	26.1	43.1	1.28	382	346.5	17.1	6.35	2876	2950	2682
3/19/25 1:00	7.13	274	25.5	5.32	16.3	43.6	31.6	43.1	1.37	380	343.3	17.2	6.35	2907	2892	2682
3/19/25 2:00	7.15	274	25.8	4.59	16.4	41.8	37.8	43.1	1.41	379	327.0	17.2	6.28	2789	2830	2682
3/19/25 3:00	7.13	275	26.3	4.42	16.4	42.1	42.1	43.1	1.34	378	314.5	17.3	6.17	2739	2773	2682
3/19/25 4:00	7.12	274	26.7	4.29	16.4	42.2	42.5	43.1	1.36	378	313.5	17.3	6.19	2710	2736	2682
3/19/25 5:00	7.11	274	28.1	4.30	16.4	44.4	42.0	43.1	1.31	375	298.6	17.3	6.04	2602	2686	2682
3/19/25 6:00	7.19	275	28.7	5.02	16.3	48.1	42.9	43.1	1.32	375	292.8	17.3	6.09	2540	2633	2682
3/19/25 7:00	7.25	276	26.2	4.64	16.4	42.7	44.9	43.1	1.23	372	274.9	17.3	6.00	2411	2563	2682
3/19/25 8:00	7.29	278	27.1	4.24	16.4	42.7	45.1	43.1	1.33	372	282.5	17.3	6.17	2481	2512	2682
3/19/25 9:00	7.31	278	27.1	4.27	16.4	42.8	44.5	43.1	1.25	373	294.3	17.3	6.26	2597	2496	2682
3/19/25 10:00	7.31	280	27.5	4.37	16.2	43.7	42.7	43.1	0.86	372	321.7	17.3	6.15	2827	2592	2682
3/19/25 11:00	7.35	280	27.0	4.36	16.3	42.8	43.1	43.1	1.63	374	313.6	17.3	6.15	2756	2730	2682
3/19/25 12:00	7.30	280	29.5	5.05	16.4	49.6	43.1	43.1	1.44	375	327.7	17.3	6.15	2879	2826	2682
3/19/25 13:00	7.27	281	28.0	5.16	16.4	47.4	45.4	43.1	1.55	376	319.2	17.3	6.15	2804	2880	2682
3/19/25 14:00	7.19	282	28.1	4.66	16.2	45.7	46.6	43.1	1.66	377	343.0	17.3	6.15	3014	2903	2682
3/19/25 15:00	7.13	284	27.6	4.60	16.1	44.5	47.6	43.1	1.66	376	324.4	17.3	6.15	2851	2931	2682
3/19/25 16:00	7.17	283	27.4	4.71	16.0	44.5	45.8	43.1	1.54	377	323.5	17.3	6.15	2843	2931	2682
3/19/25 17:00	7.24	281	26.7	4.75	16.0	43.6	44.9	43.1	1.56	378	353.1	17.3	6.15	3103	2932	2682
3/19/25 18:00	7.23	279	26.7	5.25	16.0	45.2	44.2	43.1	1.49	378	330.6	17.3	6.15	2905	2942	2682
3/19/25 19:00	7.19	278	26.2	5.45	16.0	45.1	44.4	43.1	1.60	378	345.2	17.3	6.15	3033	2937	2682
3/19/25 20:00	7.19	278	25.9	5.06	16.1	43.3	44.6	43.1	1.49	377	332.7	17.3	6.15	2923	2922	2682
3/19/25 21:00	7.22	278	25.4	4.73	16.1	41.4	44.5	43.1	1.53	378	331.1	17.3	6.15	2910	2918	2682
3/19/25 22:00	7.16	278	25.5	4.91	16.2	42.2	43.2	43.1	1.62	378	335.8	17.3	6.15	2951	2933	2682
3/19/25 23:00	7.19	277	23.7	5.07	16.1	39.7	42.3	43.1	1.54	378	325.7	17.3	6.15	2862	2932	2683
3/20/25 0:00	7.21	277	22.2	5.59	16.1	38.7	41.1	43.1	1.42	380	325.5	17.3	6.15	2861	2944	2683
3/20/25 1:00	7.22	279	20.8	5.50	16.3	36.1	40.2	43.1	1.42	380	337.4	17.3	6.15	2965	2908	2683
3/20/25 2:00	7.17	278	19.8	4.87	16.3	32.7	38.2	43.1	1.53	382	332.7	17.3	6.15	2923	2926	2683
3/20/25 3:00	7.14	277	19.4	4.72	16.3	31.6	35.8	43.1	1.36	382	339.2	17.3	6.15	2980	2911	2683
3/20/25 4:00	7.13	277	19.6	4.69	16.3	31.9	33.5	43.1	1.40	380	321.1	17.3	6.15	2822	2923	2683
3/20/25 5:00	7.09	279	17.8	4.70	16.5	29.1	32.1	43.1	1.39	382	328.6	17.3	6.15	2888	2894	2683
3/20/25 6:00	7.18	281	17.8	5.36	16.5	30.7	30.9	43.1	1.41	383	352.2	17.3	6.15	3095	2898	2683
3/20/25 7:00	7.34	282	16.1	4.83	16.4	26.6	30.6	43.1	1.45	379	320.7	17.3	6.15	2818	2889	2683
3/20/25 8:00	7.37	281	16.3	4.50	16.2	26.3	28.8	43.1	1.49	377	312.7	17.3	6.15	2748	2868	2683
3/20/25 9:00	7.39	273	17.7	4.28	16.5	28.0	27.8	43.1	1.50	371	302.4	17.3	6.15	2657	2804	2683
3/20/25 10:00	7.04	270	18.1	4.26	16.5	28.6	26.9	43.0	1.49	368	296.2	17.3	6.15	2603	2722	2683
3/20/25 11:00	7.07	269	18.6	4.23	16.4	29.3	27.6	43.0	1.49	364	282.8	17.3	6.15	2485	2621	2683
3/20/25 12:00	6.97	269	18.9	5.62	16.2	33.4	28.6	43.0	1.44	364	298.7	17.3	6.15	2624	2559	2683
3/20/25 13:00	6.93	267	18.3	4.40	16.2	29.0	30.4	43.0	1.48	369	303.9	17.3	6.15	2671	2549	2683
3/20/25 14:00	6.92	267	18.4	4.35	16.2	29.1	30.6	43.0	1.51	366	285.9	17.3	6.15	2512	2545	2683
3/20/25 15:00	6.90	268	18.2	4.36	16.2	28.8	30.5	43.0	1.38	366	269.5	17.3	6.15	2368	2541	2683
3/20/25 16:00	6.91	268	18.0	4.36	16.1	28.5	29.0	43.0	1.44	368	281.1	17.3	6.15	2470	2529	2683
3/20/25 17:00	6.94	270	17.2	4.40	16.0	27.3	28.8	43.0	1.47	368	315.2	17.3	6.15	2770	2598	2683
3/20/25 18:00	7.16	275	18.5	5.91	15.9	33.2	28.2	43.0	1.48	366	317.2	17.3	6.15	2787	2712	2683
3/20/25 19:00	7.45	277	19.1	4.61	15.9	30.8	29.7	43.0	1.60	360	308.5	17.3	6.15	2711	2784	2683
3/20/25 20:00	7.47	279	18.7	4.69	15.6	30.2	30.4	43.0	1.44	360	320.1	17.3	6.15	2813	2814	2683
3/20/25 21:00	7.89	277	18.7	4.62	15.4	29.9	31.4	43.0	1.60	355	307.5	17.3	6.15	2702	2715	2683
3/20/25 22:00	7.82	278	18.5	4.71	15.6	29.8	30.3	43.0	1.65	353	278.9	17.3	6.15	2450	2674	2683
3/20/25 23:00	7.92	274	21.5	4.55	15.6	34.3	30.0	43.0	1.59	353	276.8	17.3	6.15	2432	2579	2683
3/21/25 0:00	7.69	271	22.0	5.81	15.3	38.7	31.4	43.0	1.58	355	295.3	17.3	6.15	2595	2555	2683
3/21/25 1:00	7.57	269	22.8	4.50	15.4	36.1	34.3	43.0	1.53	356	277.8	17.3	6.15	2441	2495	2683
3/21/25 2:00	7.54	268	22.8	4.37	15.4	35.7	36.4	43.0	1.61	355	292.9	17.3	6.15	2573	2499	2683
3/21/25 3:00	7.42	264	23.5	4.29	15.5	36.8	36.8	43.0	1.51	359	308.6	17.3	6.15	2711	2581	2683
3/21/25 4:00	7.08	265	22.1	4.21	15.7	34.5	36.2	43.0	1.52	360	337.0	17.3	6.15	2961	2646	2683
3/21/25 5:00	7.17	268	22.0	4.19	15.6	34.2	35.6	43.0	1.51	360	302.4	17.3	6.15	2657	2731	2683
3/21/25 6:00	7.19	270	20.4	5.57	15.2	35.2	35.1	43.0	1.52	359	316.3	17.3	6.15	2780	2732	2683
3/21/25 7:00	7.32	274	19.7	4.00	15.1	29.9	34.6	43.0	1.51	359	307.2	17.3	6.15	2699	2758	2683
3/21/25 8:00	7.49	277	21.3	4.02	14.9	32.3	33.1	43.0	1.49	359	311.0	17.3	6.15	2733	2754	2683
3/21/25 9:00	7.49	282	21.6	4.24	15.0	33.4	32.5	43.0	1.49	359	371.0	17.3	6.15	3260	2790	2683
3/21/25 10:00	7.82	286	19.9	4.20	15.3	30.7	31.8	43.0	1.45	358	287.3	17.3	6.15	2525	2839	2683
3/21/25 11:00	8.01	283	20.2	4.07	15.5	31.0	32.1	43.0	1.48	361	333.0	17.3	6.15	2926	2905	2683
3/21/25 12:00	7.89	280	20.5	5.20	15.5	34.4	31.7	43.0	1.48	360	314.3	17.3	6.15	2762	2910	2683
3/21/25 13:00	7.90	279	19.9	4.74	15.6	32.1	32.0	43.0	1.59	358	316.7	17.3	6.15	2783	2874	2683
3/21/25 14:00	7.93	278	22.8	4.54	15.4	36.3	32.5	43.0	1.55	359	343.5	17.3	6.15	3018	2851	2683
3/21/25 15:00	8.05	279	21.5	4.51	15.2	34.0	34.3	43.0	1.45	360	290.7	17.3	6.15	2554	2807	2683
3/21/25 16:00	8.10	278	22.0	4.27	15.4	34.3	34.1	43.0	1.42	361	289.1	17.3	6.15	2541	2739	2683
3/21/25 17:00	7.98	277	22.5	4.22	15.4	34.8	34.9	43.0	1.50	361	291.7	17.3	6.15	2563	2637	2683
3/21/25 18:00	7.93	277	22.2	5.18	15.2	37.0	34.4	43.0	1.46	362	285.3	17.3	6.15	2507	2581	2683
3/21/25 19:00	7.94	275	20.2	4.76	15.3	32.7	35.4	43.0	1.54	362	290.7	17.3	6.15	2555	2569	2683
3/21/25 20:00	7.90	274	20.4	4.14	15.3	31.3	34.8	43.0	1.45	363	290.5	17.3	6.15	2553	2559	2683
3/21/25 21:00	7.77	275	20.5	4.34	15.4	32.2	33.7	43.0	1.51	363	270.3	17.3	6.15	2375	2551	2683
3/21/25 22:00	7.91	276	20.5	4.66	15.3	32.9	32.1	43.0	1.47	363	294.6	17.3	6.15	2589	2532	2683
3/21/25 23:00	8.09	274	18.6	4.27	15.3	28.9	32.1	43.0	1.39	364	282.7	17.3	6.15	2484	2563	2683
3/22/25 0:00	7.84	275	18.8	5.18	15.5	31.4	31.3	43.0	1.45	363	285.8	17.3	6.15	2511	2570	2683
3/22/25 1:00	7.91	277	18.5	4.74	15.5	29.9	31.1	43.0	1.47	364	280.5	17.3	6.15	2465	2558	2683
3/22/25 2:00	7.94	277	17.4	4.20	15.6	27.1	30.1	43.0	1.44	364	291.1	17.3	6.15	2558	2512	2683
3/22/25 3:00	7.91	278	16.6	4.22	15.6	25.8	29.5	43.0	1.41	364	276.4	17.3	6.15	2429	2512	2683
3/22/25 4:00	7.93	278	16.1	4.25	15.6	25.1	27.6	43.0	1.50	364	285.9	17.3	6.15	2512	2525	2683
3/22/25 5:00	7.92	278	16.3	4.31	15.5	25.5	26.0	43.0	1.45	366	274.8	17.3	6.15	2414	2550	2683
3/22/25 6:00	7.95	277	16.9	5.13	15.6	28.2	25.5	43.0	1.48	366	302.3	17.3	6.15	2656	2547	2683
3/22/25 7:00	7.92	276	16.8	4.60	15.6	26.9	26.3	43.0	1.39	364	275.9	17.3	6.15	2424	2560	2683
3/22/25 8:00	7.88	278	17.1	4.00	15.6	26.1	26.9	43.0	1.43	366	303.7	17.3	6.15	2669	2568	2683
3/22/25 9:00	8.02	278	16.6	4.04	15.6	25.5	27.1	43.0	1.42	365	284.0	17.3	6.15	2495	2590	2682
3/22/25 10:00	8.05	279	16.4	4.09	15.5	25.3	26.2	43.0	1.45	364	289.1	17.3	6.15	2540	2620	2682
3/22/25 11:00	8.07	279	21.0	4.10	15.4	32.3	25.6	43.0	1.63	358	273.5	17.3	6.15	2404	2561	2682
3/22/25 12:00	8.07	278	22.6	5.42	15.4	38.4	27.7	43.0	1.58	359	281.8	17.3	6.15	2476	2499	2682

Stack CEMS Data

	North Stack					North Stack SO2			South Stack					South Stack SO2		
						1Hr	3Hr	365Day						1 Hr	3Hr	365Day
	Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected			Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected		
Timestamp	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv
3/22/25 13:00	8.04	277	20.5	4.61	15.4	32.7	32.0	43.0	1.64	356	266.4	17.3	6.15	2341	2415	2682
3/22/25 14:00	8.03	277	21.5	4.32	15.4	33.5	34.4	43.0	1.53	351	259.4	17.3	6.15	2279	2352	2682
3/22/25 15:00	8.05	276	22.4	4.26	15.5	34.8	34.9	43.0	1.47	349	249.3	17.3	6.15	2190	2287	2682
3/22/25 16:00	8.01	276	23.5	4.25	15.4	36.5	33.7	43.0	1.50	349	231.4	17.3	6.15	2033	2213	2682
3/22/25 17:00	8.02	276	23.4	4.24	15.4	36.3	34.9	42.9	1.50	347	233.1	17.3	6.15	2049	2170	2682
3/22/25 18:00	8.01	276	24.4	5.47	15.5	42.0	35.9	42.9	1.52	348	243.1	17.3	6.15	2136	2124	2682
3/22/25 19:00	7.98	277	24.4	4.44	15.4	38.4	38.2	42.9	1.56	348	236.0	17.3	6.15	2074	2091	2682
3/22/25 20:00	8.13	280	24.8	4.18	15.4	38.4	38.9	42.9	1.55	347	239.7	17.3	6.15	2107	2073	2682
3/22/25 21:00	8.21	281	24.7	4.18	15.3	38.0	39.6	42.9	1.56	350	226.3	17.3	6.15	1989	2066	2682
3/22/25 22:00	8.23	278	24.4	4.23	15.5	37.9	38.3	42.9	1.58	352	247.9	17.3	6.15	2179	2076	2682
3/22/25 23:00	8.05	273	24.4	4.07	15.2	37.3	38.1	42.9	1.60	353	312.7	17.3	6.15	2748	2106	2681
3/23/25 0:00	7.81	276	25.0	5.39	15.1	42.4	37.8	42.9	1.60	355	241.4	17.3	6.15	2121	2194	2681
3/23/25 1:00	8.18	278	24.3	4.36	15.2	37.9	39.2	42.9	1.60	354	246.4	17.3	6.15	2165	2237	2681
3/23/25 2:00	8.21	277	25.0	4.16	15.2	38.5	39.2	42.9	1.47	353	239.6	17.3	6.15	2106	2242	2681
3/23/25 3:00	8.11	272	24.5	4.06	15.2	37.3	39.6	42.9	1.51	355	239.5	17.3	6.15	2105	2198	2681
3/23/25 4:00	7.69	271	24.8	4.05	15.2	37.9	37.9	42.9	1.57	355	261.2	17.3	6.15	2295	2215	2681
3/23/25 5:00	7.80	269	24.7	4.01	15.2	37.7	37.9	42.9	1.49	354	244.3	17.3	6.15	2146	2244	2681
3/23/25 6:00	7.64	269	25.5	5.36	15.2	43.1	37.6	42.9	1.50	354	258.1	17.3	6.15	2268	2267	2681
3/23/25 7:00	7.67	269	20.3	4.51	15.4	32.5	39.6	42.9	1.55	356	285.7	17.3	6.15	2510	2288	2681
3/23/25 8:00	7.56	268	19.6	4.09	15.4	30.2	37.7	42.9	1.53	355	281.2	17.3	6.15	2471	2366	2681
3/23/25 9:00	7.48	269	21.6	4.21	15.3	33.4	35.3	42.9	1.59	356	291.8	17.3	6.15	2564	2443	2681
3/23/25 10:00	7.52	270	23.5	4.20	15.3	36.4	32.0	42.9	1.43	358	294.4	17.3	6.15	2587	2498	2681
3/23/25 11:00	7.52	270	23.7	4.13	15.4	36.6	33.3	42.9	1.46	363	331.5	17.3	6.15	2913	2623	2681
3/23/25 12:00	7.56	271	25.0	5.21	15.4	41.9	35.5	42.9	1.48	365	336.2	17.3	6.15	2954	2741	2681
3/23/25 13:00	7.57	271	24.7	4.73	15.4	39.9	38.3	42.9	1.45	366	305.1	17.3	6.15	2681	2825	2681
3/23/25 14:00	7.56	271	24.2	4.23	15.5	37.6	39.5	42.9	1.49	367	298.8	17.3	6.15	2626	2752	2681
3/23/25 15:00	7.47	271	23.5	4.22	15.5	36.5	39.8	42.9	1.42	366	308.9	17.3	6.15	2714	2665	2681
3/23/25 16:00	7.48	271	24.1	4.33	15.5	37.7	38.0	42.9	1.43	366	294.0	17.3	6.15	2584	2615	2681
3/23/25 17:00	7.53	273	23.9	4.35	15.5	37.5	37.3	42.9	1.46	365	265.2	17.3	6.15	2330	2576	2681
3/23/25 18:00	7.79	277	24.5	5.29	15.5	41.4	37.2	42.9	1.47	363	267.8	17.3	6.15	2354	2514	2681
3/23/25 19:00	7.95	277	23.3	4.89	15.5	38.2	38.9	42.9	1.51	361	267.4	17.3	6.15	2350	2422	2681
3/23/25 20:00	7.97	274	22.9	4.21	15.7	35.6	39.0	42.9	1.48	358	256.4	17.3	6.15	2253	2336	2681
3/23/25 21:00	7.63	274	24.6	4.49	15.8	39.2	38.4	42.9	1.57	358	255.7	17.3	6.15	2247	2293	2681
3/23/25 22:00	7.82	275	24.5	4.49	15.7	39.0	37.7	42.9	1.60	357	264.3	17.3	6.15	2323	2261	2681
3/23/25 23:00	7.75	271	26.4	4.22	15.7	41.1	37.9	42.9	1.51	355	253.2	17.3	6.15	2225	2236	2681
3/24/25 0:00	7.49	272	29.9	5.26	15.6	50.6	39.8	42.9	1.47	361	248.1	17.3	6.15	2180	2236	2680
3/24/25 1:00	7.66	271	28.8	4.92	15.8	47.4	43.6	42.9	1.45	362	257.9	17.3	6.15	2266	2232	2680
3/24/25 2:00	7.49	270	28.8	4.21	15.8	44.8	46.4	42.9	1.53	363	264.1	17.3	6.15	2321	2255	2680
3/24/25 3:00	7.43	270	30.6	4.23	15.8	47.7	47.6	42.9	1.42	365	274.6	17.3	6.15	2413	2268	2680
3/24/25 4:00	7.41	269	30.9	4.28	15.9	48.6	46.7	42.9	1.39	369	274.9	17.3	6.15	2416	2338	2680
3/24/25 5:00	7.39	269	31.4	4.20	15.9	49.0	47.0	42.9	1.45	371	285.5	17.3	6.15	2509	2416	2680
3/24/25 6:00	7.36	269	30.7	4.87	15.8	50.5	48.4	42.9	1.42	370	292.1	17.3	6.15	2567	2499	2680
3/24/25 7:00	7.32	270	23.9	4.36	15.8	38.1	49.3	42.9	1.44	373	337.0	17.3	6.15	2961	2610	2680
3/24/25 8:00	7.58	272	18.2	3.79	15.5	27.4	45.9	42.9	1.43	368	300.2	17.3	6.15	2638	2669	2680
3/24/25 9:00	7.49	272	18.2	3.86	15.6	27.6	38.7	42.9	1.46	365	287.2	17.3	6.15	2524	2716	2680
3/24/25 10:00	7.44	272	18.3	3.91	15.7	27.8	31.1	42.9	1.49	364	311.2	17.3	6.15	2735	2683	2680
3/24/25 11:00	7.46	275	17.6	3.97	15.7	27.0	27.6	42.9	1.46	386	296.0	17.3	6.15	2601	2675	2680
3/24/25 12:00	7.65	276	18.4	5.20	15.6	30.9	27.5	42.9	1.50	376	295.3	17.3	6.15	2595	2640	2680
3/24/25 13:00	7.64	277	16.8	4.46	15.6	26.6	28.6	42.9	1.50	387	307.7	17.3	6.15	2704	2616	2680
3/24/25 14:00	7.71	274	16.5	4.10	15.6	25.4	28.1	42.9	1.47	368	308.1	17.3	6.15	2707	2600	2680
3/24/25 15:00	7.54	274	17.1	4.08	15.7	26.4	27.6	42.9	1.54	386	297.8	17.3	6.15	2617	2608	2680
3/24/25 16:00	7.59	274	15.6	4.05	15.7	24.0	26.1	42.9	1.44	390	293.0	17.3	6.15	2575	2596	2680
3/24/25 17:00	7.48	272	15.2	4.02	15.7	23.4	25.3	42.9	1.49	388	292.3	17.3	6.15	2568	2609	2680
3/24/25 18:00	7.44	271	15.8	5.09	15.8	26.4	24.6	42.9	1.48	388	304.4	17.3	6.15	2675	2601	2680
3/24/25 19:00	7.41	270	15.6	4.53	16.0	25.0	24.6	42.9	1.49	389	297.3	17.3	6.15	2613	2649	2680
3/24/25 20:00	7.34	270	16.1	4.13	16.2	25.1	24.9	42.9	1.47	393	327.2	17.3	6.15	2876	2705	2680
3/24/25 21:00	7.40	271	15.6	4.13	16.1	24.3	25.5	42.9	1.51	390	295.7	17.3	6.15	2598	2737	2680
3/24/25 22:00	7.45	271	16.1	4.06	15.8	24.8	24.8	42.9	1.52	385	285.7	17.3	6.15	2510	2663	2680
3/24/25 23:00	7.47	270	16.3	4.10	15.9	25.2	24.7	42.9	1.51	383	259.3	17.3	6.15	2279	2511	2680
3/25/25 0:00	7.45	273	14.9	5.21	15.3	25.0	24.8	42.9	1.44	380	229.7	17.3	6.15	2019	2322	2680
3/25/25 1:00	7.59	270	15.9	4.56	15.2	25.2	25.0	42.9	1.51	378	231.1	17.3	6.15	2031	2154	2680
3/25/25 2:00	7.45	272	15.7	4.08	15.2	24.1	25.1	42.9	1.48	379	225.0	17.3	6.15	1977	2040	2680
3/25/25 3:00	7.54	272	14.6	4.08	15.2	22.4	24.8	42.9	1.51	380	237.5	17.3	6.15	2087	2018	2680
3/25/25 4:00	7.51	272	14.7	4.12	15.2	22.6	23.9	42.9	1.40	381	216.2	17.3	6.15	1900	2095	2680
3/25/25 5:00	7.66	275	14.7	4.12	15.2	22.6	23.0	42.9	1.46	381	250.6	17.3	6.15	2202	2197	2680
3/25/25 6:00	7.77	275	14.6	5.11	15.1	24.3	22.5	42.9	1.40	382	627.2	17.3	6.15	5511	2326	2679
3/25/25 7:00	7.72	273	16.4	4.53	15.1	25.7	23.1	42.9	1.44	383	264.0	17.3	6.15	2320	2399	2679
3/25/25 8:00	7.51	272	18.2	4.01	15.1	27.7	24.2	42.9	1.41	383	346.7	17.3	6.15	3046	2412	2679
3/25/25 9:00	7.54	273	18.6	4.05	15.1	28.4	25.9	42.9	1.49	383	271.6	17.3	6.15	2386	2332	2679
3/25/25 10:00	7.55	274	18.8	4.10	15.2	28.7	27.3	42.9	1.52	383	247.9	17.3	6.15	2179	2279	2679
3/25/25 11:00	7.57	274	18.9	4.13	15.1	28.9	28.3	42.9	1.56	416	411.2	17.3	6.15	3613	2610	2679
3/25/25 12:00	7.57	277	18.4	5.34	15.0	31.0	28.7	42.9	1.60	447	358.5	17.3	6.15	3150	2924	2679
3/25/25 13:00	7.62	275	18.2	4.70	15.0	29.2	29.6	42.9	1.54	456	365.7	17.3	6.15	3213	3210	2680
3/25/25 14:00	7.49	276	17.6	4.32	15.0	27.2	29.7	42.9	1.62	460	374.1	17.3	6.15	3287	3172	2680
3/25/25 15:00	7.63	276	16.8	4.32	15.0	26.1	29.2	42.8	1.57	462	369.9	17.3	6.15	3251	3222	2680
3/25/25 16:00	7.61	276	16.8	4.31	15.0	26.1	27.5	42.8	1.54	462	372.7	17.3	6.15	3275	3270	2680
3/25/25 17:00	7.63	276	16.9	4.32	15.0	26.2	26.5	42.8	1.59	465	386.4	17.3	6.15	3395	3323	2680
3/25/25 18:00	7.64	275	16.7	5.25	15.0	27.9	26.1	42.8	1.52	466	398.2	17.3	6.15	3499	3364	2680
3/25/25 19:00	7.62	275	16.9	4.94	15.0	27.6	26.7	42.8	1.52	465	397.8	17.3	6.15	3496	3411	2680
3/25/25 20:00	7.65	277	16.5	4.38	15.0	25.8	27.2	42.8	1.52	465	382.3	17.3	6.15	3360	3429	2680
3/25/25 21:00	7.83	277	17.1	4.45	15.1	26.8	27.1	42.8	1.64	464	380.6	17.3	6.15	3344	3390	2680
3/25/25 22:00	7.81	277	17.0	4.58	15.2	27.0	26.7	42.8	1.53	467	380.6	17.3	6.15	3344	3366	2680
3/25/25 23:00	7.85	277	17.0	4.63	14.8	26.9	26.5	42.8	1.55	470	380.6	17.3	6.15	3344	3334	2681
3/26/25 0:00	7.84	275	18.5	5.55	14.8	31.6	26.9	42.8	1.60	469	380.6	17.3	6.15	3344	3344	2681
3/26/25 1:00	7.82	272	18.2	5.23	14.8	30.2	28.5	42.8	1.56	470	380.6	17.3	6.15	3344	3344	2681
3/26/25 2:00	7.70	270	18.2	4.61	14.9	28.8	29.6	42.8	1.55	469	380.6	17.3	6.15	3344	3344	2681
3/26/25 3:00	7.69	270	17.9	4.56	14.9	28.3	30.2	42.8	1.58	468	380.6	17.3	6.15	3344	3344	2681
3/26/25 4:00	7.67	269	18.5	4.37	15.1	28.8	29.1	42.8	1.54	467	380.6	17.3	6.15	3344	3344	2681
3/26/25 5:00	7.59	269	18.4	4.38	15.2	28.9	28.6	42.8	1.64	463	380.6	17.3	6.15	3344	3344	2681
3/26/25 6:00	7.57	269	18.7	5.25	15.2	31.3	28.6	42.8	1.57	463	380.6	17.3	6.15	3344	3344	2681
3/26/25 7:00	7.58	271	16.4	4.70	15.2	26.5	29.7	42.8	1.60	464	380.6	17.3	6.15	3344	3344	2681
3/26/25 8:00	7.60	273	14.9	4.12	15.1	22.9	28.9	42.8	1.58	464	380.6	17.3	6.15	3344	3344	2681

Stack CEMS Data

	North Stack					North Stack SO2			South Stack					South Stack SO2		
						1Hr	3Hr	365Day						1 Hr	3Hr	365Day
	Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected			Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected		
Timestamp	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv
3/26/25 9:00	7.65	275	14.4	4.13	15.0	22.1	26.9	42.8	1.51	464	380.6	17.3	6.15	3344	3344	2682
3/26/25 10:00	7.66	276	14.1	4.14	15.1	21.6	23.8	42.8	1.57	461	380.6	17.3	6.15	3344	3344	2682
3/26/25 11:00	7.66	277	14.2	4.21	15.1	21.8	22.2	42.8	1.68	464	380.6	17.3	6.15	3344	3344	2682
3/26/25 12:00	7.65	278	14.5	5.34	15.0	24.4	21.8	42.8	1.66	467	380.6	17.3	6.15	3344	3344	2682
3/26/25 13:00	7.56	276	14.0	4.79	15.0	22.6	22.6	42.8	1.64	469	380.6	17.3	6.15	3344	3344	2682
3/26/25 14:00	7.51	275	14.4	4.35	15.0	22.3	22.9	42.8	1.46	470	380.6	17.3	6.15	3344	3344	2682
3/26/25 15:00	7.49	275	14.1	4.33	14.9	21.9	23.1	42.8	1.55	462	428.5	17.3	6.15	3766	3393	2682
3/26/25 16:00	7.44	276	13.6	4.38	14.9	21.1	22.3	42.8	1.52	430	411.0	17.3	6.15	3612	3497	2682
3/26/25 17:00	7.52	276	14.1	4.38	14.9	21.9	21.8	42.8	1.54	417	396.5	17.3	6.15	3484	3569	2683
3/26/25 18:00	7.56	278	14.6	5.31	14.9	24.4	21.7	42.8	1.49	411	384.2	17.3	6.15	3376	3593	2683
3/26/25 19:00	7.69	278	13.7	5.06	14.9	22.5	22.5	42.8	1.55	413	403.0	17.3	6.15	3541	3539	2683
3/26/25 20:00	7.69	272	14.6	4.35	15.0	22.7	22.9	42.8	1.59	411	388.8	17.3	6.15	3416	3498	2683
3/26/25 21:00	7.43	274	14.2	4.55	15.3	22.6	23.2	42.8	1.50	412	394.4	17.3	6.15	3465	3478	2683
3/26/25 22:00	7.65	268	14.6	4.36	14.9	22.6	22.6	42.8	1.52	414	438.1	17.3	6.15	3850	3554	2683
3/26/25 23:00	7.32	266	14.0	4.23	15.1	21.6	22.7	42.8	1.55	413	406.3	17.3	6.15	3570	3657	2683
3/27/25 0:00	7.28	266	12.8	5.21	15.1	21.4	22.3	42.8	1.56	411	444.4	17.3	6.15	3905	3844	2684
3/27/25 1:00	7.27	265	12.2	4.74	15.1	19.7	21.9	42.8	1.55	410	526.4	17.3	6.15	4625	3971	2684
3/27/25 2:00	7.24	264	13.0	4.20	15.1	20.0	20.9	42.8	1.56	410	437.6	17.3	6.15	3845	4227	2684
3/27/25 3:00	7.18	264	13.9	4.20	15.1	21.4	20.4	42.7	1.55	411	453.6	17.3	6.15	3985	4186	2684
3/27/25 4:00	7.18	264	14.1	4.18	15.1	21.6	20.4	42.7	1.57	409	432.0	17.3	6.15	3796	4129	2684
3/27/25 5:00	7.19	263	13.8	4.18	15.1	21.3	21.0	42.7	1.56	408	449.0	17.3	6.15	3946	3925	2685
3/27/25 6:00	7.19	263	14.6	5.23	15.1	24.3	21.4	42.7	1.56	407	427.8	17.3	6.15	3759	3898	2685
3/27/25 7:00	7.22	264	16.1	4.64	15.1	25.4	22.4	42.7	1.57	406	440.4	17.3	6.15	3869	3856	2685
3/27/25 8:00	7.31	267	19.0	4.00	15.1	28.9	23.7	42.7	1.55	408	410.3	17.3	6.15	3605	3837	2685
3/27/25 9:00	7.34	267	18.4	3.97	15.2	27.8	26.2	42.7	1.53	409	450.4	17.3	6.15	3958	3835	2685
3/27/25 10:00	7.24	268	18.4	4.04	15.2	28.0	27.4	42.7	1.53	408	414.3	17.3	6.15	3641	3852	2686
3/27/25 11:00	7.31	269	18.7	4.07	15.3	28.7	28.2	42.7	1.57	409	431.1	17.3	6.15	3788	3896	2686
3/27/25 12:00	7.30	271	19.0	5.21	15.3	31.8	28.2	42.7	1.56	411	459.1	17.3	6.15	4034	3968	2686
3/27/25 13:00	7.35	273	18.5	4.79	15.5	30.1	29.5	42.7	1.51	413	462.7	17.3	6.15	4066	4068	2686
3/27/25 14:00	7.32	274	17.6	4.31	15.3	27.4	30.2	42.7	1.57	413	470.2	17.3	6.15	4132	4099	2686
3/27/25 15:00	7.36	275	17.8	4.31	15.2	27.7	29.8	42.7	1.57	413	465.6	17.3	6.15	4091	4078	2687
3/27/25 16:00	7.34	276	17.7	4.36	15.2	27.6	28.4	42.7	1.53	415	465.7	17.3	6.15	4092	4051	2687
3/27/25 17:00	7.40	275	18.6	4.32	15.2	28.9	27.5	42.7	1.59	412	491.5	17.1	5.96	3954	4017	2687
3/27/25 18:00	7.37	275	18.7	5.10	15.2	30.9	28.0	42.7	1.56	415	445.6	17.2	5.78	3585	3927	2687
3/27/25 19:00	7.39	278	17.7	5.17	15.2	29.4	29.1	42.7	1.46	415	437.5	17.2	5.56	3491	3791	2687
3/27/25 20:00	7.59	279	17.8	4.42	15.3	28.0	29.8	42.7	1.49	416	443.8	17.0	5.98	3450	3645	2687
3/27/25 21:00	7.63	280	17.2	4.42	15.7	27.2	29.4	42.7	1.50	418	448.2	17.1	5.98	3559	3575	2688
3/27/25 22:00	7.69	278	16.3	4.44	15.4	25.7	28.2	42.7	1.49	417	467.8	17.1	5.98	3688	3545	2688
3/27/25 23:00	7.63	277	17.2	4.49	15.4	27.1	27.0	42.7	1.59	417	466.4	17.0	6.24	3660	3542	2688
3/28/25 0:00	7.66	274	18.7	5.16	15.3	31.1	26.7	42.7	1.48	419	470.2	17.1	5.98	3729	3557	2688
3/28/25 1:00	7.59	271	17.8	5.29	15.3	30.0	28.0	42.7	1.55	417	436.4	17.1	5.94	3486	3572	2688
3/28/25 2:00	7.54	268	17.6	4.50	15.3	27.8	29.4	42.7	1.59	414	480.7	17.1	5.93	3839	3588	2688
3/28/25 3:00	7.37	269	18.2	4.43	15.3	28.6	29.6	42.7	1.53	414	454.8	17.1	5.90	3614	3602	2688
3/28/25 4:00	7.45	271	16.5	4.44	15.3	26.0	28.8	42.7	1.61	414	472.0	17.1	5.95	3763	3618	2689
3/28/25 5:00	7.48	271	16.7	4.49	15.2	26.4	27.5	42.7	1.67	412	462.6	17.1	5.96	3691	3648	2689
3/28/25 6:00	7.49	272	17.8	5.35	15.2	30.0	27.0	42.7	1.56	414	466.7	17.1	6.02	3694	3693	2689
3/28/25 7:00	7.47	272	20.0	4.83	15.1	32.3	27.5	42.7	1.56	415	469.6	17.0	6.05	3668	3725	2689
3/28/25 8:00	7.47	273	19.6	4.26	15.2	30.4	29.6	42.7	1.55	418	484.8	17.0	6.13	3807	3751	2689
3/28/25 9:00	7.47	273	19.2	4.19	15.2	29.6	30.9	42.7	1.47	418	456.0	17.1	6.11	3676	3734	2689
3/28/25 10:00	7.52	274	18.4	4.16	15.2	28.4	30.8	42.7	1.60	415	442.6	17.1	6.06	3540	3672	2689
3/28/25 11:00	7.51	274	17.6	4.19	15.3	27.2	29.5	42.7	1.53	416	464.7	17.0	6.22	3645	3617	2690
3/28/25 12:00	7.49	275	18.2	5.39	15.3	31.0	28.4	42.7	1.56	415	433.1	17.1	6.16	3523	3579	2690
3/28/25 13:00	7.52	275	18.6	4.67	15.3	29.8	28.8	42.7	1.59	412	433.0	17.1	6.15	3453	3557	2690
3/28/25 14:00	7.53	275	18.3	4.36	15.3	28.5	29.3	42.7	1.58	411	418.5	17.1	6.03	3336	3510	2690
3/28/25 15:00	7.53	275	19.1	4.48	15.2	30.1	29.8	42.7	1.56	409	403.3	17.1	6.00	3262	3442	2690
3/28/25 16:00	7.51	275	20.3	4.52	15.2	32.2	29.5	42.7	1.68	408	412.8	17.1	5.99	3290	3387	2690
3/28/25 17:00	7.50	273	21.4	4.44	15.3	33.7	30.3	42.7	1.64	408	412.5	17.1	6.05	3285	3360	2690
3/28/25 18:00	7.41	272	23.1	5.38	15.4	39.2	32.0	42.7	1.55	410	431.7	17.1	6.16	3416	3349	2690
3/28/25 19:00	7.40	272	22.7	5.00	15.6	37.5	35.0	42.7	1.58	411	431.9	17.1	6.14	3444	3377	2691
3/28/25 20:00	7.41	272	23.6	4.41	15.7	37.3	36.8	42.7	1.65	412	446.1	17.0	6.24	3476	3397	2691
3/28/25 21:00	7.40	273	23.8	4.38	15.8	37.6	38.0	42.7	1.64	411	441.4	17.0	6.23	3498	3419	2691
3/28/25 22:00	7.49	274	24.0	4.31	15.8	37.7	37.5	42.7	1.58	411	457.6	17.0	6.28	3570	3406	2691
3/28/25 23:00	7.47	274	23.9	4.22	16.0	37.4	37.5	42.7	1.57	413	431.3	17.0	6.26	3396	3384	2691
3/29/25 0:00	7.49	275	25.7	5.30	15.4	43.4	37.5	42.7	1.57	411	406.1	17.1	6.20	3254	3335	2691
3/29/25 1:00	7.61	275	25.1	4.86	15.4	40.9	39.5	42.7	1.62	408	379.6	17.1	6.03	3056	3283	2691
3/29/25 2:00	7.63	276	27.9	4.46	15.4	44.0	40.6	42.7	1.61	405	373.7	17.2	5.92	3047	3193	2691
3/29/25 3:00	7.66	273	28.7	4.53	15.3	45.6	42.8	42.7	1.59	403	361.8	17.1	5.90	2888	3112	2691
3/29/25 4:00	7.42	272	29.6	4.48	15.3	46.7	43.5	42.7	1.58	402	364.7	17.2	5.85	2961	3031	2691
3/29/25 5:00	7.42	271	30.3	4.37	15.3	47.5	45.4	42.7	1.54	405	387.8	17.1	5.95	3090	3009	2691
3/29/25 6:00	7.40	271	31.0	5.24	15.3	52.1	46.6	42.7	1.47	410	379.4	17.2	5.97	3074	3014	2691
3/29/25 7:00	7.40	272	20.8	4.62	15.4	33.7	48.8	42.7	1.50	411	390.3	17.2	5.97	3163	3041	2691
3/29/25 8:00	7.47	274	17.9	4.26	15.4	27.8	44.4	42.7	1.63	406	391.2	17.2	5.88	3181	3113	2692
3/29/25 9:00	7.52	274	18.9	4.26	15.3	29.3	37.9	42.7	1.55	404	369.7	17.2	5.83	2983	3223	2692
3/29/25 10:00	7.54	274	18.1	4.17	15.4	27.9	30.3	42.7	1.55	402	344.6	17.2	5.81	2838	3179	2692
3/29/25 11:00	7.48	274	17.8	4.12	15.4	27.4	28.3	42.7	1.55	403	363.3	17.2	5.86	3011	3069	2692
3/29/25 12:00	7.46	274	20.0	5.29	15.3	33.7	28.2	42.7	1.54	400	339.4	17.3	5.81	2830	2892	2692
3/29/25 13:00	7.49	274	19.2	4.74	15.3	30.9	29.7	42.6	1.54	398	326.9	17.2	5.75	2697	2851	2692
3/29/25 14:00	7.47	273	18.3	4.23	15.3	28.4	30.7	42.6	1.48	401	320.4	17.3	5.70	2668	2800	2692
3/29/25 15:00	7.41	270	18.4	4.21	15.4	28.5	31.0	42.6	1.47	400	335.9	17.2	5.77	2775	2770	2692
3/29/25 16:00	7.24	271	18.4	4.23	15.4	28.6	29.3	42.6	1.51	401	316.7	17.2	5.71	2607	2749	2692
3/29/25 17:00	7.41	274	18.4	4.26	15.3	28.5	28.5	42.6	1.60	398	328.2	17.2	5.75	2704	2725	2692
3/29/25 18:00	7.60	275	19.8	5.27	15.3	33.4	28.5	42.6	1.67	395	314.6	17.3	5.68	2641	2691	2692
3/29/25 19:00	7.60	273	18.8	4.89	15.4	30.7	30.2	42.6	1.67	394	316.3	17.3	5.74	2661	2647	2692
3/29/25 20:00	7.64	273	19.7	4.55	15.4	31.4	30.9	42.6	1.61	392	304.1	17.3	5.70	2558	2611	2692
3/29/25 21:00	7.73	275	20.1	4.65	15.4	32.2	31.8	42.6	1.56	392	283.4	17.3	5.54	2369	2571	2692
3/29/25 22:00	7.72	271	20.8	4.35	15.4	32.5	31.4	42.6	1.59	394	297.2	17.3	5.60	2460	2544	2692
3/29/25 23:00	7.33	266	20.9	4.38	15.4	32.9	32.0	42.6	1.58	393	296.3	17.3	5.60	2438	2520	2692
3/30/25 0:00	7.15	265	23.9	5.37	15.3	40.5	32.5	42.6	1.60	394	301.1	17.3	5.67	2483	2517	2692
3/30/25 1:00	7.10	265	22.6	4.93	15.4	37.0	35.3	42.6	1.66	396	309.4	17.3	5.67	2561	2506	2692
3/30/25 2:00	7.09	265	22.1	4.32	15.4	34.5	36.8	42.6	1.57	398	317.9	17.2	5.75	2613	2522	2692
3/30/25 3:00	7.09	265	22.0	4.28	15.4	34.3	37.4	42.6	1.56	398	321.2	17.2	5.76	2632	2549	2692
3/30/25 4:00	7.07	266	22.2	4.26	15.4	34.5	35.3	42.6	1.53	399	335.1	17.2	5.80	2748	2580	2692

Stack CEMS Data

	North Stack					North Stack SO2			South Stack					South Stack SO2		
						1Hr	3Hr	365Day						1 Hr	3Hr	365Day
	Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected			Flow	Temp	Act SO2	O2	H2O	Air, H2O Corrected		
Timestamp	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv	MMSCFH	DEGF	PPMV	V%	V%	ppmv	ppmv	ppmv
3/30/25 5:00	7.06	266	22.0	4.24	15.4	34.1	34.4	42.6	1.55	400	327.0	17.3	5.78	2711	2621	2692
3/30/25 6:00	7.08	266	24.5	5.12	15.4	40.7	34.3	42.6	1.48	403	317.1	17.2	5.84	2620	2644	2692
3/30/25 7:00	7.08	267	17.0	4.43	15.5	27.1	36.4	42.6	1.49	403	315.4	17.2	5.81	2586	2654	2692
3/30/25 8:00	7.10	267	14.0	3.86	15.5	21.2	33.9	42.6	1.56	400	311.6	17.2	5.79	2550	2637	2692
3/30/25 9:00	7.11	268	13.5	3.88	15.5	20.4	29.6	42.6	1.45	402	319.2	17.2	5.85	2610	2635	2692
3/30/25 10:00	7.12	268	12.9	3.89	15.5	19.6	22.9	42.6	1.46	404	329.5	17.2	5.90	2726	2649	2692
3/30/25 11:00	7.12	269	12.5	3.98	15.5	19.1	20.4	42.6	1.44	401	324.2	17.2	5.92	2667	2666	2692
3/30/25 12:00	7.22	269	14.8	5.32	15.5	25.3	19.7	42.6	1.54	401	325.9	17.3	5.89	2728	2673	2691
3/30/25 13:00	7.16	269	14.6	4.29	15.5	22.8	21.3	42.6	1.49	403	337.1	17.2	5.96	2805	2677	2691
3/30/25 14:00	7.12	269	14.5	4.08	15.5	22.3	22.4	42.6	1.42	403	330.0	17.2	6.01	2718	2691	2692
3/30/25 15:00	7.12	269	14.4	4.05	15.4	22.1	23.5	42.6	1.58	403	334.7	17.2	6.05	2729	2712	2692
3/30/25 16:00	7.09	269	15.7	4.11	15.6	24.2	22.4	42.6	1.50	404	312.8	17.2	5.93	2614	2733	2692
3/30/25 17:00	7.14	269	16.4	4.12	15.7	25.3	22.9	42.6	1.49	406	333.9	17.2	6.02	2730	2758	2692
3/30/25 18:00	7.16	269	16.8	5.12	15.7	28.1	23.9	42.6	1.46	406	335.5	17.2	5.96	2767	2768	2692
3/30/25 19:00	7.19	269	16.7	4.66	15.7	27.0	25.8	42.6	1.50	406	348.5	17.2	5.89	2886	2833	2692
3/30/25 20:00	7.10	268	16.4	4.22	15.7	25.6	26.8	42.6	1.45	406	388.5	17.2	6.07	3225	2922	2692
3/30/25 21:00	7.17	270	16.1	4.40	15.4	25.3	26.9	42.6	1.45	406	378.2	17.2	6.06	3151	3028	2692
3/30/25 22:00	7.26	268	15.9	4.41	16.0	25.2	26.0	42.6	1.46	407	366.3	17.3	6.02	3107	3087	2692
3/30/25 23:00	7.37	267	15.6	4.23	15.6	24.2	25.4	42.6	1.44	401	351.4	17.2	6.08	2913	3058	2692
3/31/25 0:00	7.07	266	16.6	5.12	15.6	27.8	24.9	42.6	1.57	397	313.1	17.2	5.82	2596	2980	2692
3/31/25 1:00	7.03	266	17.2	4.73	15.7	27.8	25.7	42.6	1.48	404	343.9	17.2	6.01	2854	2874	2692
3/31/25 2:00	7.01	265	17.6	4.12	15.7	27.2	26.6	42.6	1.41	405	351.1	17.2	5.97	2904	2821	2692
3/31/25 3:00	6.98	266	17.2	4.11	15.7	26.6	27.6	42.6	1.42	404	343.8	17.2	5.96	2870	2795	2692
3/31/25 4:00	6.98	266	16.8	4.08	15.8	25.9	27.2	42.6	1.46	404	306.4	17.2	5.94	2568	2784	2692
3/31/25 5:00	7.01	267	15.9	4.09	15.7	24.6	26.6	42.6	1.43	406	356.9	17.2	6.08	3021	2790	2692
3/31/25 6:00	6.98	268	15.8	4.93	15.8	26.2	25.7	42.6	1.42	408	337.3	17.3	6.04	2866	2798	2692
3/31/25 7:00	7.01	269	15.6	4.41	15.9	24.7	25.6	42.6	1.42	409	351.8	17.2	6.10	2962	2801	2692
3/31/25 8:00	7.04	272	14.8	3.98	16.0	22.7	25.2	42.6	1.44	405	372.6	17.2	6.22	3199	2819	2692
3/31/25 9:00	7.21	274	15.2	4.13	15.7	23.5	24.5	42.6	1.44	402	317.1	17.4	5.76	2755	2843	2692
3/31/25 10:00	7.26	275	14.8	4.21	15.6	23.0	23.6	42.5	1.47	398	292.2	17.4	5.67	2501	2776	2692
3/31/25 11:00	7.26	277	14.9	4.27	15.4	23.2	23.1	42.5	1.46	395	269.8	17.5	5.34	2374	2654	2692
3/31/25 12:00	7.27	277	16.0	5.31	15.3	27.1	23.2	42.5	1.51	389	274.1	17.6	4.94	2436	2482	2692
3/31/25 13:00	7.28	276	15.8	5.05	15.2	26.1	24.4	42.5	1.41	385	234.0	17.6	4.69	2055	2365	2692
3/31/25 14:00	7.19	275	15.6	4.44	15.2	24.5	25.4	42.5	1.43	385	262.4	17.6	4.87	2329	2231	2692
3/31/25 15:00	7.19	273	15.9	4.45	15.1	25.0	25.9	42.5	1.54	385	245.7	17.6	4.89	2143	2145	2692
3/31/25 16:00	7.19	271	15.9	4.45	15.1	25.0	25.2	42.5	1.43	382	207.5	17.6	4.75	1837	2086	2692
3/31/25 17:00	7.16	268	15.8	4.43	15.2	24.8	24.8	42.5	1.48	383	298.4	17.5	5.00	2581	2401	2692
3/31/25 18:00	7.16	268	15.6	5.37	15.1	26.5	24.9	42.5	1.57	382	204.4	17.5	5.28	1767	2367	2692
3/31/25 19:00	7.16	269	15.4	5.06	15.1	25.4	25.4	42.5	1.47	383	204.1	17.3	5.66	1720	2353	2691
3/31/25 20:00	7.18	270	14.8	4.55	15.0	23.4	25.5	42.5	1.55	385	220.0	17.2	6.07	1836	2176	2691
3/31/25 21:00	7.25	271	14.8	4.61	15.5	23.7	25.1	42.5	1.55	384	227.5	17.5	5.44	2027	2333	2691
3/31/25 22:00	7.35	269	14.6	4.59	14.9	23.1	24.2	42.5	1.50	383	224.0	17.5	5.21	1958	2339	2691
3/31/25 23:00	7.27	271	15.2	4.60	14.9	24.1	23.4	42.5	1.50	387	308.0	17.5	5.37	2691	2287	2691
4/1/25 0:00	7.36	270	15.1	5.36	15.0	25.5	23.6	42.5	1.51	392	261.6	17.3	5.46	2173	2325	2691

Fuel Gas H2S Estimation

**H2S concentration in Fuel Gas is estimated using the best available data and operating information for heat and material balances, supported by the lab analysis of manual sampling.*

**For Hydrobon/Platformer fired heaters, the SO2 emissions are estimated using the measured average fuel gas flow rate and the estimated H2S concentration in the Fuel Gas.*

Date and Time	North Stack SO2	North Stack Flow	Boiler 9 Fuel Gas	Boiler 9 Fuel Oil	Boiler 13 Fuel Gas	Boiler 13 Fuel Oil	LPG Vapourization Rate	Total Boilers Sulphur Emission	LRF Sulphur Content	LRF Density	Raw Estimated Fuel Gas H2S Concentration	Lab Result Fuel Gas H2S Concentration	Corrected Estimated Fuel Gas H2S Concentration	3hr Rolling Average H2S Concentration	365 Day Rolling Average H2S Concentration	Heater SO2 Emissions
	ppmv	MMSCFH	MSCFH	GPM	MSCFH	GPM	MSCFH	kg/hr	%	kg/L	ppmv	ppmv	ppmv	ppmv	ppmv	kg/hr
1/1/2025 0:00	27.4	8.97	340	3.88	207	0.00	14.77	8.65	0.581	0.936	198.06	53.100	50.84	96.29	44.1	0.850
1/1/2025 1:00	23.8	9.02	344	3.91	206	0.00	14.68	7.53	0.581	0.936	138.84	53.100	0.00	80.56	44.1	0.711
1/1/2025 2:00	22.3	9.16	346	3.87	206	0.00	14.61	7.18	0.581	0.936	123.67	53.100	0.00	48.63	44.1	0.433
1/1/2025 3:00	23.2	9.05	339	3.85	207	0.00	14.72	7.38	0.581	0.936	136.52	53.100	0.00	19.87	44.1	0.175
1/1/2025 4:00	23.7	8.93	336	3.83	207	0.00	14.67	7.42	0.581	0.936	140.82	53.100	0.00	1.14	44.0	0.010
1/1/2025 5:00	21.6	8.97	345	3.81	206	0.00	14.68	6.81	0.581	0.936	108.71	53.100	0.00	1.12	44.0	0.010
1/1/2025 6:00	23.5	8.88	339	3.82	207	0.00	14.72	7.32	0.581	0.936	135.13	53.100	0.00	2.31	44.0	0.020
1/1/2025 7:00	19.5	9.09	357	3.82	206	0.00	14.70	6.22	0.581	0.936	77.81	53.100	0.00	8.80	44.0	0.078
1/1/2025 8:00	16.6	9.05	337	3.88	206	0.00	14.76	5.27	0.581	0.936	29.47	53.100	0.00	8.29	44.0	0.073
1/1/2025 9:00	18.1	8.74	331	3.89	206	0.00	14.65	5.54	0.581	0.936	42.77	53.100	0.00	6.76	44.0	0.060
1/1/2025 10:00	17.1	9.09	351	3.87	206	0.00	14.65	5.45	0.581	0.936	37.43	53.100	0.00	0.00	44.0	0.000
1/1/2025 11:00	19.1	9.02	344	3.84	206	0.00	14.73	6.03	0.581	0.936	69.13	53.100	0.00	0.00	44.0	0.000
1/1/2025 12:00	18.4	8.81	345	3.81	206	0.00	14.67	5.70	0.581	0.936	54.62	53.100	0.00	0.00	44.0	0.000
1/1/2025 13:00	19.1	9.07	350	3.87	206	0.00	14.70	6.07	0.581	0.936	68.61	53.100	0.00	5.33	44.0	0.048
1/1/2025 14:00	24.3	8.91	348	3.81	206	0.00	14.65	7.60	0.581	0.936	147.53	53.100	0.31	7.33	43.9	0.066
1/1/2025 15:00	24.5	9.04	346	3.87	207	0.00	14.64	7.77	0.581	0.936	152.59	53.100	5.37	17.50	43.9	0.157
1/1/2025 16:00	25.7	9.01	347	3.90	207	0.00	14.84	8.13	0.581	0.936	168.98	53.100	21.76	32.80	43.9	0.293
1/1/2025 17:00	31.4	8.97	347	3.94	207	0.00	14.66	9.88	0.581	0.936	252.35	53.100	105.13	59.22	43.9	0.528
1/1/2025 18:00	27.1	9.09	347	3.90	206	0.00	14.58	8.64	0.581	0.936	193.78	53.100	46.56	71.82	43.9	0.642
1/1/2025 19:00	26.9	8.99	344	3.93	206	0.00	14.67	8.50	0.581	0.936	186.22	53.100	39.00	72.86	43.9	0.652
1/1/2025 20:00	24.1	9.17	345	3.96	206	0.00	14.65	7.75	0.581	0.936	146.88	53.100	0.00	52.97	43.9	0.471
1/1/2025 21:00	24.6	9.05	342	3.86	206	0.00	15.68	7.82	0.581	0.936	157.36	53.100	10.14	38.87	43.9	0.348
1/1/2025 22:00	26.4	9.00	338	3.87	207	0.00	15.61	8.32	0.581	0.936	183.61	53.100	36.39	26.61	43.9	0.239
1/1/2025 23:00	26.9	8.97	348	3.89	206	0.00	15.57	8.46	0.581	0.936	185.55	0.150	0.15	27.83	43.9	0.247
1/2/2025 0:00	25.0	9.05	344	3.83	206	0.00	15.53	7.96	0.581	0.936	165.51	0.150	0.00	21.35	43.9	0.191
1/2/2025 1:00	25.0	8.85	345	3.85	207	0.00	15.59	7.77	0.581	0.936	154.66	0.150	0.00	22.51	43.9	0.203
1/2/2025 2:00	27.1	8.94	338	3.89	206	0.00	15.50	8.53	0.581	0.936	192.38	0.150	6.98	13.66	43.9	0.122
1/2/2025 3:00	26.6	8.91	339	3.89	206	0.00	15.61	8.32	0.581	0.936	181.81	0.150	0.00	12.69	43.9	0.114
1/2/2025 4:00	25.1	8.92	339	3.94	206	0.00	15.60	7.87	0.581	0.936	155.61	0.150	0.00	2.72	43.9	0.024
1/2/2025 5:00	26.6	9.18	352	3.88	206	0.00	15.68	8.58	0.581	0.936	190.87	0.150	5.47	2.08	43.9	0.018
1/2/2025 6:00	24.5	9.03	344	3.87	206	0.00	15.45	7.76	0.581	0.936	153.60	0.150	0.00	1.51	43.8	0.013
1/2/2025 7:00	27.0	9.14	352	3.87	206	0.00	15.53	8.66	0.581	0.936	194.96	0.150	9.56	12.41	43.8	0.111
1/2/2025 8:00	17.7	8.91	345	3.86	206	0.00	15.56	5.54	0.581	0.936	42.95	0.150	0.00	16.82	43.8	0.152
1/2/2025 9:00	16.3	8.99	338	3.80	206	0.00	15.45	5.13	0.581	0.936	26.79	0.150	0.00	16.17	43.8	0.147
1/2/2025 10:00	17.3	8.78	319	3.83	206	0.00	15.74	5.32	0.581	0.936	35.75	0.150	0.00	4.66	43.8	0.041
1/2/2025 11:00	17.1	8.76	321	3.84	207	0.00	15.55	5.26	0.581	0.936	31.55	0.150	0.00	0.00	43.8	0.000
1/2/2025 12:00	14.3	8.70	316	3.87	206	0.00	15.76	4.35	0.581	0.936	-17.59	0.150	0.00	0.00	43.8	0.000
1/2/2025 13:00	20.2	9.08	351	3.87	206	0.00	15.51	6.44	0.581	0.936	86.65	0.150	0.00	0.05	43.8	0.000
1/2/2025 14:00	20.7	8.62	317	3.90	206	0.00	15.52	6.25	0.581	0.936	80.42	0.150	0.00	0.05	43.8	0.000
1/2/2025 15:00	19.4	8.59	307	3.91	207	0.00	15.60	5.86	0.581	0.936	60.39	0.150	0.00	0.05	43.8	0.000
1/2/2025 16:00	21.9	9.09	354	3.92	206	0.00	15.65	6.98	0.581	0.936	109.49	0.150	0.00	0.00	43.8	0.000
1/2/2025 17:00	20.3	9.33	365	3.90	206	0.00	15.68	6.66	0.581	0.936	92.81	0.150	0.00	0.00	43.7	0.000
1/2/2025 18:00	17.6	9.22	358	3.92	206	0.00	15.50	5.69	0.581	0.936	46.22	0.150	0.00	0.00	43.7	0.000
1/2/2025 19:00	17.9	9.09	348	3.89	206	0.00	15.45	5.70	0.581	0.936	49.40	0.150	0.00	1.58	43.7	0.014
1/2/2025 20:00	19.0	8.95	338	3.90	207	0.00	15.47	5.96	0.581	0.936	62.11	0.150	0.00	1.58	43.7	0.014
1/2/2025 21:00	20.5	8.68	309	3.90	206	0.00	16.52	6.26	0.581	0.936	82.16	0.150	0.00	1.58	43.7	0.014
1/2/2025 22:00	22.2	8.70	313	3.89	207	0.00	16.35	6.78	0.581	0.936	109.59	0.150	0.00	0.00	43.7	0.000
1/2/2025 23:00	21.1	8.67	302	3.94	207	0.00	16.51	6.42	0.581	0.936	89.61	0.150	0.00	0.00	43.7	0.000
1/3/2025 0:00	19.0	8.84	314	3.91	206	0.00	17.25	5.91	0.581	0.936	62.37	0.150	0.00	0.00	43.7	0.000
1/3/2025 1:00	22.6	8.80	309	3.96	207	0.00	17.66	6.99	0.581	0.936	117.74	0.150	0.00	3.34	43.7	0.029
1/3/2025 2:00	21.0	8.86	318	3.98	207	0.00	17.59	6.54	0.581	0.936	90.75	0.150	0.00	3.34	43.7	0.030
1/3/2025 3:00	23.3	8.80	319	3.96	206	0.00	16.43	7.19	0.581	0.936	125.63	0.150	0.00	3.34	43.6	0.031
1/3/2025 4:00	19.6	9.02	331	3.95	206	0.00	16.68	6.21	0.581	0.936	73.25	0.150	0.00	0.00	43.6	0.000
1/3/2025 5:00	20.9	8.81	317	3.93	206	0.00	16.61	6.47	0.581	0.936	89.97	0.150	0.00	0.00	43.6	0.000
1/3/2025 6:00	18.5	8.81	321	3.91	206	0.00	16.74	5.74	0.581	0.936	52.13	0.150	0.00	0.00	43.6	0.000
1/3/2025 7:00	21.9	9.07	330	3.87	206	0.00	16.87	6.99	0.581	0.936	118.36	0.150	0.00	2.66	43.6	0.025
1/3/2025 8:00	15.7	8.92	347	3.85	203	0.00	16.12	4.91	0.581	0.936	12.08	0.150	0.00	2.66	43.6	0.023
1/3/2025 9:00	15.8	9.41	349	3.84	202	0.00	16.51	5.23	0.581	0.936	29.37	0.150	0.00	2.66	43.6	0.024
1/3/2025 10:00	17.6	9.40	355	3.85	202	0.00	16.57	5.82	0.581	0.936	57.01	0.150	0.00	0.00	43.6	0.000
1/3/2025 11:00	12.4	8.98	329	3.84	210	0.00	16.47	3.90	0.581	0.936	-38.43	0.150	0.00	0.00	43.6	0.000
1/3/2025 12:00	12.5	9.29	346	3.96	211	0.00	16.62	4.09	0.581	0.936	-34.38	0.150	0.00	0.00	43.6	0.000
1/3/2025 13:00	11.1	9.14	343	4.04	211	0.00	16.51	3.57	0.581	0.936	-65.40	0.150	0.00	0.09	43.5	0.001
1/3/2025 14:00	13.7	8.78	315	4.10	211	0.00	16.40	4.23	0.581	0.936	-38.23	0.150	0.00	0.09	43.5	0.001
1/3/2025 15:00	15.9	8.82	302	4.18	211	0.00	16.48	4.94	0.581	0.936	-6.45	0.150	0.00	0.09	43.5	0.001
1/3/2025 16:00	20.8	8.78	311	4.15	211	0.00	16.16	6.41	0.581	0.936	73.35	0.150	0.00	0.00	43.5	0.000
1/3/2025 17:00	20.5	8.80	322	4.08	211	0.00	16.37	6.33	0.581	0.936	72.15	0.150	0.00	0.00	43.5	0.000
1/3/2025 18:00	18.2	8.94	333	4.10	211	0.00	16.54	5.71	0.581	0.936	37.52	0.150	0.00	0.00	43.5	0.000
1/3/2025 19:00	16.6	8.91	337	4.09	211	0.00	16.39	5.21	0.581	0.936	12.44	0.150	0.00	0.07	43.5	0.001
1/3/2025 20:00	18.1	9.20	357	4.04	211	0.00	16.01	5.85	0.581	0.936	46.17	0.150	0.00	0.07	43.5	0.001
1/3/2025 21:00	17.9	8.91	320	3.97	211	0.01	16.64	5.61	0.581	0.936	41.47	0.150	0.00	0.07	43.5	0.001
1/3/2025 22:00	19.8	8.67	304	4.02	211	0.00	16.31	6.02	0.581	0.936	61.77	0.150	0.00	0.00	43.5	0.000
1/3/2025 23:00	19.8	8.92	340	3.97	211	0.00	16.40	6.20	0.581	0.936	69.40	0.010	0.01	0.00	43.4	0.000
1/4/2025 0:00	15.3	9.49	382	4.02	210	0.00	16.85	5.10	0.581	0.936	10.80	0.010	0.00	0.43	43.4	0.004
1/4/2025 1:00	19.5	9.13	351	3.98	211	0.00	16.56	6.25	0.581	0.936	69.58	0.010	0.19	7.76	43.4	0.071
1/4/2025 2:00	19.2	9.21	361	3.93	211	0.00	16.59	6.21	0.581	0.936	69.66	0.010	0.27	7.94	43.4	0.073
1/4/2025 3:00	20.1	8.92	345	4.01	211	0.00	16.71	6.29	0.581	0.936	71.04	0.010	1.65	10.40	43.4	0.093
1/4/2025 4:00	17.2	8.71	317	3.98	211	0.00	16.60	5.26	0.581	0.936	22.61	0.010	0.00	4.14	43.4	0.037
1/4/2025 5:00	20.5	8.60	314	4.00	211	0.00	16.72	6.19	0.581	0.936	70.62	0.010	1.23	5.07	43.4	0.044
1/4/2025 6:00	22.8	8.67	318	4.00	211	0.00	16.37	6.93	0.581	0.936	108.32	0.010	38.93	17.81	43.4	0.158
1/4/2025 7:00	21.7	8.83	325	3.98	211	0.00	16.51	6.73	0.581	0.936	98.20	0.010	28.81	40.24	43.4	0.360
1/4/2025 8:00	16.4	8.97	342	3.89	211	0.00	16.86	5.15	0.581	0.936	22.16	0.010	0.00	44.73	43.4	0.402
1/4/2025 9:00	13.2	8.99	344	3.91	211	0.00	16.94	4.17	0.581	0.936	-27.59	0.010	0.00	29.76	43.4	0.270
1/4/2025 10:00	17.9	8.89	325	3.96	216	0.00	16.59	5.60	0.581	0.936	40.89	0.010	0.00	6.27	43.4	0.056
1/4/2025 11:00	17.9	8.77	319	3.99	216	0.00	16.37	5.52	0.581	0.936	35.58	0.010	0.00	0.90	43.3	0.008
1/4/2025 12:00	16.2	8.89	329	4.03	215	0.00	16.53	5.05	0.581	0.936	8.87	0.010	0.00	0.25	43.3	0.002
1/4/2025 13:00	20.2	8.94	336	4.02	216	0.00	16.37	6.33	0.581	0.936	73.07	0.010	3.68	8.76	43.3	0.079
1/4/2025 14:00	16.4	8.78	324	4.06	216	0.00	16.51	5.05	0.581	0.936	6.78	0.010	0.00	8.70	43.3	0.078
1/4/2025 15:00	16.3	9.04	337	4.05	216	0.00	16.23	5.18	0.581	0.936	14.16	0.010	0.00	8.69	43.3	0.079
1/4/2025 16:00	17.0	9.37	355	4.03	220	0.00	16.33	5.58	0.581	0.936	33.57	0.010	0.00	0.20	43.3	0.002
1/4/2025 17:00	13.5	9.44	369	4.04	221	0.00	16.16	4.47	0.581	0.936	-19.40	0.010	0.00	0.32	43.3	0.003
1/4/2025 18:00	15.2	9.43	364	4.07	220	0.00	16.68	5.05	0.581	0.936	5.41	0.010	0.00	0.45	43.3	0.004
1/4/2025 19:00	15.3	9.43	366	4.07	220	0.00	16.56	5.07	0.581	0.936	6.54	0.010	0.00	7.45	43.3	0.067
1/4/2025 20:00	17.1	9.43	366	4.17	220	0.00	16.08	5.68	0.581	0.936	29.53	0.010	0.00	7.16	43.3	0.065
1/4/2025 21:00	15.7	9.36	354	4.05	220	0.00	16.83	5.17	0.581	0.936	12.93	0.010	0.00	7.77	43.3	0.069
1/4/2025 22:00	16.2	9.31	347	4.15	220	0.00	16.56	5.31	0.581	0.936	13.68	0.010	0.00	0.87	43.2	0.008
1/4/2025 23:00	20.4	9.41	352	4.16	220	0.00	16.37	6.75	0.581	0.936	82.02	0.010	12.63	0.93	43.2	0.009
1/5/2025 0:00	16.9	9.33	357	4.13	220	0.00	16.39	5.55	0.581	0.936	26.04	0.010	0.00	0.48	43.2	0.004
1/5/2025 1:00	16.0	9.26	349	4.06	220	0.00	16.54	5.19	0.581	0.936	13.50	0.010	0.00	12.79	43.2	0.115
1/5/2025 2:00	18.4	9.20	350	4.09	220	0.00	16.65	5.94	0.581	0.936	47.25	0.010	0.00	13.34	43.2	0.120
1/5/2025 3:00	21.4	9.21	344	4.08	220	0.00	16.55	6.92	0.581	0.936	96.70	0.010	27.31	13.91	43.2	0.122
1/5/2025 4:00	20.9	9.37	355	4.10	220	0.00	16.41	6.88	0.581	0.936	91.15	0.010	21.76	2.38	43.2	0.021
1/5/2025 5:00	20.1	9.31	362	4.10	220	0.00	16.51	6.56	0.581	0.936	75.49	0.010	6.10	3.17	43.2	0.029
1/5/2025 6:00	18.5	9.32	346	4.07	220	0.00	16.62	6.04	0.581	0.936	54.58	0.010	0.00	3.85	43.2	0.036
1/5/2025 7:00	17.5	9.37	350	4.00	220	0.00	16.36	5.75	0.581	0.936	43.77	0.010	0.00	14.77	43.2	0.132
1/5/2025 8:00	16.5	9.53	374	3.99	220	0.00	16.73	5.52	0.581	0.936	31.90	0.010	0.00	13.59	43.2	0.124
1/5/2025 9:00	16.7	9.30	354	4.00	220	0.00	16.36	5.45	0.581	0.936	29.08	0.010	0.00	12.39	43.2	0.113
1/5/2025 10:00	13.8	9.49	373	3.96	220	0.00	16.56	4.60	0.581	0.936	-9.22	0.010	0.00	0.94	43.1	0.009
1/5/2025 11:00	14.0	9.45	365	3.99	220	0.00	9.47	4.64	0.581	0.936	-9.17	0.010	0.00	0.94	43.1	0.008
1/5/2025 12:00	17.3	9.27	365	4.10	220	0.00	9.38	5.64	0.581	0.936	31.04	0.010	0.00	0.71	43.1	0.006
1/5/2025 13:00	16.4	9.62	384	4.13	219	0.00	9.38	5.54	0.581	0.936	24.66	0.010	0.00	7.77	43.1	0.069
1/5/2025 14:00	17.2	9.33	356	4.10	220	0.00	9.46	5.62	0.581	0.936	30.87	0.010	0.00	7.67	43.1	0.069
1/5/2025 15:00	15.4	9.14	352	4.09	220	0.00	9.43	4.95	0.581	0.936	0.00	0.010	0.00	7.62	43.1	0.069
1/5/2025 16:00	17.0	9.23	358	4.11	220	0.00	9.46	5.50	0.581	0.936	24.81	0.010	0.00	0.33	43.1	0.003
1/5/2025 17:00	19.8	9.24	357	4.11	220	0.00	9.49	6.44	0.581	0.936	68.56	0.010	0.00	0.57	43.1	0.005
1/5/2025 18:00	20.0	9.35	357	4.11	220	0.00	9.00	6.56	0.581	0.936	74.32	0.010	4.93	1.10	43.1	0.010
1/5/2025 19:00	15.9	9.64	366	4.11	220	0.00	8.92	5.37	0.581	0.936	18.04	0.010	0.00	11.38	43.1	0.103
1/5/2025 20:00	20.3	9.31	349	4.13	220	0.00	9.35	6.64	0.581	0.936	78.50	0.010	9.11	11.74	43.1	0.107
1/5/2025 21:00	17.5	9.29	342	4.15	220	0.00	9.53	5.69	0.581	0.936	32.35	0.010	0.00	13.93	43.0	0.126
1/5/2025 22:00	19.4	9.23	342	4.11	220	0.00	9.18	6.27	0.581	0.936	62.44	0.010	0.00	4.93	43.0	0.044
1/5/2025 23:00	19.0	9.27	341	4.19	220	0.00	9.47	6.20	0.581	0.936	54.34	0.010	0.00	5.94	43.0	0.053
1/6/2025 0:00	17.3	9.24	348	4.19	220	0.00	9.21	5.61	0.588	0.938	22.10	0.010	0.00	3.45	43.0	0.031
1/6/2025 1:00	21.3	9.15	337	4.23	220	0.00	9.54	6.84	0.588	0.938	80.19	0.010	10.80	10.44	43.0	0.094
1/6/2025 2:00	20.7	9.06	338	4.18	221	0.00	9.04	6.58	0.588	0.938	70.23	0.010	0.84	11.14	43.0	0.101
1/6/2025 3:00	16.7	9.11	350	4.15	220	0.00	8.94	5.34	0.588	0.938	11.48	0.010	0.00	12.24	43.0	0.110
1/6/2025 4:00	19.7	9.01	328	4.19	220	0.00	8.87	6.23	0.588	0.938	53.74	0.010	0.00	3.81	43.0	0.034
1/6/2025 5:00	15.0	9.12	334	4.23	220	0.00	8.84	4.80	0.588	0.938	-19.68	0.010	0.00	1.62	43.0	0.015
1/6/2025 6:00	17.8	9.30	348	4.21	220	0.00	14.75	5.82	0.588	0.938	31.19	0.010	0.00	1.71	43.0	0.015

Fuel Gas H2S Estimation

H2S concentration in Fuel Gas is estimated using the best available data and operating information for heat and material balances, supported by the lab analysis of manual sampling.

For Hydrobon/Platformer fired heaters, the SO2 emissions are estimated using the measured average fuel gas flow rate and the estimated H2S concentration in the Fuel Gas.

Date and Time	North Stack SO2	North Stack Flow	Boiler 9 Fuel Gas	Boiler 9 Fuel Oil	Boiler 13 Fuel Gas	Boiler 13 Fuel Oil	LPG Vapourization Rate	Total Boilers Sulphur Emission	LRF Sulphur Content	LRF Density	Raw Estimated Fuel Gas H2S Concentration	Lab Result Fuel Gas H2S Concentration	Corrected Estimated Fuel Gas H2S Concentration	3hr Rolling Average H2S Concentration	365 Day Rolling Average H2S Concentration	Heater SO2 Emissions
	ppmv	MMSCFH	MSCFH	GPM	MSCFH	GPM	MSCFH	kg/hr	%	kg/L	ppmv	ppmv	ppmv	ppmv	ppmv	kg/hr
1/6/2025 7:00	19.1	8.93	324	4.15	220	0.00	14.55	5.99	0.588	0.938	44.76	0.010	0.00	7.91	43.0	0.070
1/6/2025 8:00	17.1	9.25	342	4.14	220	0.00	14.73	5.54	0.588	0.938	21.76	0.010	0.00	9.26	42.9	0.083
1/6/2025 9:00	17.3	8.98	321	4.04	220	0.00	14.57	5.44	0.588	0.938	23.67	0.010	0.00	8.19	42.9	0.075
1/6/2025 10:00	20.6	9.21	347	4.07	219	0.00	14.61	6.66	0.588	0.938	80.21	0.010	10.82	2.00	42.9	0.018
1/6/2025 11:00	16.0	9.07	323	4.08	220	0.00	14.64	5.10	0.588	0.938	4.16	0.010	0.00	0.48	42.9	0.004
1/6/2025 12:00	20.4	9.07	321	4.10	220	0.00	14.73	6.51	0.588	0.938	74.61	0.010	5.22	2.16	42.9	0.019
1/6/2025 13:00	19.4	9.00	322	4.06	220	0.00	14.67	6.14	0.588	0.938	57.73	0.010	0.00	5.94	42.9	0.053
1/6/2025 14:00	22.5	9.03	327	4.11	220	0.00	14.64	7.13	0.588	0.938	103.98	0.010	34.59	9.81	42.9	0.087
1/6/2025 15:00	16.8	8.98	317	4.12	220	0.01	14.73	5.31	0.588	0.938	12.24	0.010	0.00	11.98	42.9	0.107
1/6/2025 16:00	23.7	8.99	313	4.16	220	0.00	14.76	7.49	0.588	0.938	121.87	0.010	52.48	9.51	42.9	0.085
1/6/2025 17:00	20.0	9.11	328	4.08	220	0.00	14.54	6.41	0.588	0.938	69.72	0.010	0.33	13.37	42.9	0.121
1/6/2025 18:00	18.2	9.06	322	4.09	220	0.00	14.71	5.79	0.588	0.938	38.44	0.010	0.00	10.11	42.9	0.089
1/6/2025 19:00	18.2	9.12	347	4.04	220	0.00	14.69	5.81	0.588	0.938	40.61	0.010	0.00	10.44	42.9	0.094
1/6/2025 20:00	26.8	9.00	335	4.01	220	0.00	14.61	8.49	0.588	0.938	175.23	0.010	105.84	8.07	42.9	0.073
1/6/2025 21:00	21.4	9.03	341	3.90	220	0.00	14.65	6.79	0.588	0.938	97.51	0.010	28.12	19.56	42.9	0.179
1/6/2025 22:00	20.1	9.06	336	3.88	220	0.00	14.69	6.38	0.588	0.938	79.44	0.010	10.05	27.54	42.9	0.246
1/6/2025 23:00	22.5	9.15	342	3.95	220	0.00	14.58	7.23	0.588	0.938	115.38	0.010	0.01	29.93	42.9	0.268
1/7/2025 0:00	20.4	9.09	345	3.98	220	0.01	14.75	6.50	0.588	0.938	77.56	0.010	0.00	17.62	42.8	0.160
1/7/2025 1:00	21.6	9.37	341	4.05	225	0.00	14.69	7.12	0.588	0.938	103.82	0.010	0.00	8.64	42.8	0.078
1/7/2025 2:00	20.5	9.64	346	4.03	224	0.00	14.60	6.95	0.588	0.938	95.30	0.010	0.00	1.80	42.8	0.016
1/7/2025 3:00	19.4	9.55	351	4.02	224	0.00	14.73	6.51	0.588	0.938	74.78	0.010	0.00	1.66	42.8	0.015
1/7/2025 4:00	19.3	9.27	343	4.04	224	0.00	14.76	6.28	0.588	0.938	63.00	0.010	0.00	1.00	42.8	0.009
1/7/2025 5:00	14.8	9.41	342	4.02	224	0.00	14.65	4.88	0.588	0.938	-2.87	0.010	0.00	0.08	42.8	0.001
1/7/2025 6:00	19.7	9.34	337	3.95	229	0.00	16.49	6.47	0.588	0.938	78.34	0.010	0.00	0.03	42.8	0.000
1/7/2025 7:00	22.8	9.44	340	3.95	229	0.00	16.58	7.57	0.588	0.938	131.20	0.010	15.83	0.94	42.8	0.008
1/7/2025 8:00	17.0	9.26	327	3.92	234	0.00	17.57	5.54	0.588	0.938	35.44	0.010	0.00	0.99	42.8	0.009
1/7/2025 9:00	15.3	9.27	331	3.95	234	0.00	17.66	4.99	0.588	0.938	6.61	0.010	0.00	0.99	42.8	0.009
1/7/2025 10:00	18.0	9.28	333	4.01	234	0.00	17.45	5.87	0.588	0.938	45.77	0.010	0.00	0.09	42.8	0.001
1/7/2025 11:00	5.1	9.28	329	3.98	234	0.00	17.35	1.67	0.588	0.938	-157.30	0.010	0.00	0.00	42.7	0.000
1/7/2025 12:00	16.3	9.15	329	4.07	234	0.00	17.43	5.23	0.588	0.938	10.75	0.010	0.00	0.00	42.7	0.000
1/7/2025 13:00	12.4	9.30	332	4.06	234	0.00	17.27	4.05	0.588	0.938	-45.75	0.010	0.00	0.00	42.7	0.000
1/7/2025 14:00	9.0	9.39	338	4.06	233	0.00	17.66	2.97	0.588	0.938	-97.45	0.010	0.00	0.00	42.7	0.000
1/7/2025 15:00	9.9	9.47	336	4.05	234	0.01	17.49	3.30	0.588	0.938	-80.94	0.010	0.00	0.00	42.7	0.000
1/7/2025 16:00	12.2	9.27	333	4.05	234	0.00	17.45	3.98	0.588	0.938	-48.33	0.010	0.00	0.00	42.7	0.000
1/7/2025 17:00	10.2	9.29	331	3.98	234	0.00	17.27	3.33	0.588	0.938	-75.70	0.010	0.00	0.00	42.7	0.000
1/7/2025 18:00	11.5	9.50	333	3.98	234	0.00	17.40	3.82	0.588	0.938	-52.21	0.010	0.00	0.00	42.7	0.000
1/7/2025 19:00	12.1	9.63	336	4.04	234	0.00	17.51	4.08	0.588	0.938	-42.40	0.010	0.00	0.00	42.7	0.000
1/7/2025 20:00	12.5	9.38	319	4.01	234	0.00	17.32	4.12	0.588	0.938	-40.52	0.010	0.00	0.00	42.7	0.000
1/7/2025 21:00	13.1	9.23	324	4.01	234	0.00	17.18	4.25	0.588	0.938	-33.51	0.010	0.00	0.00	42.7	0.000
1/7/2025 22:00	11.9	9.47	327	4.04	234	0.00	17.43	3.96	0.588	0.938	-49.00	0.010	0.00	0.00	42.6	0.000
1/7/2025 23:00	14.0	9.12	321	4.03	234	0.00	17.23	4.49	0.588	0.938	-22.91	0.010	0.00	0.00	42.6	0.000
1/8/2025 0:00	15.8	9.36	324	4.02	234	0.00	17.55	5.20	0.588	0.938	12.65	0.010	0.00	0.00	42.6	0.000
1/8/2025 1:00	13.7	9.50	335	4.06	234	0.00	17.54	4.58	0.588	0.938	-20.11	0.010	0.00	0.00	42.6	0.000
1/8/2025 2:00	14.5	9.32	319	4.06	234	0.00	17.19	4.74	0.588	0.938	-12.42	0.010	0.00	0.00	42.6	0.000
1/8/2025 3:00	12.4	9.19	315	4.10	234	0.00	17.45	3.98	0.588	0.938	-52.91	0.010	0.00	0.00	42.6	0.000
1/8/2025 4:00	12.7	9.37	320	4.06	234	0.00	17.46	4.17	0.588	0.938	-41.02	0.010	0.00	0.00	42.6	0.000
1/8/2025 5:00	11.6	9.38	323	4.03	234	0.00	17.19	3.82	0.588	0.938	-55.82	0.010	0.00	0.00	42.6	0.000
1/8/2025 6:00	16.1	9.32	324	4.03	234	0.00	17.31	5.28	0.588	0.938	15.91	0.010	0.00	0.00	42.6	0.000
1/8/2025 7:00	14.5	9.23	321	4.04	234	0.00	17.51	4.69	0.588	0.938	-13.79	0.010	0.00	0.00	42.6	0.000
1/8/2025 8:00	10.8	8.92	291	4.03	234	0.00	17.66	3.38	0.588	0.938	-82.75	0.010	0.00	0.00	42.5	0.000
1/8/2025 9:00	19.5	8.92	301	4.04	234	0.00	17.38	6.11	0.588	0.938	59.11	0.010	0.00	0.00	42.5	0.000
1/8/2025 10:00	17.6	8.81	287	4.03	234	0.00	17.54	5.45	0.588	0.938	26.12	0.010	0.00	0.00	42.5	0.000
1/8/2025 11:00	12.7	8.95	299	4.00	234	0.00	17.67	4.01	0.588	0.938	-46.97	0.010	0.00	0.00	42.5	0.000
1/8/2025 12:00	15.7	8.95	297	3.98	233	0.00	17.53	4.95	0.588	0.938	3.19	0.010	0.00	0.00	42.5	0.000
1/8/2025 13:00	11.4	8.83	291	4.02	234	0.01	17.49	3.55	0.588	0.938	-73.42	0.010	0.00	0.00	42.5	0.000
1/8/2025 14:00	19.9	8.87	285	4.12	234	0.00	17.32	6.20	0.588	0.938	60.19	0.010	0.00	0.00	42.5	0.000
1/8/2025 15:00	17.8	8.83	288	4.08	234	0.00	17.31	5.54	0.588	0.938	27.19	0.010	0.00	0.00	42.5	0.000
1/8/2025 16:00	16.9	8.83	286	3.96	234	0.00	17.42	5.23	0.588	0.938	19.51	0.010	0.00	0.00	42.5	0.000
1/8/2025 17:00	15.9	8.96	294	3.86	234	0.00	17.33	5.00	0.588	0.938	13.59	0.010	0.00	0.00	42.5	0.000
1/8/2025 18:00	15.7	8.87	302	3.83	234	0.00	17.37	4.90	0.588	0.938	9.49	0.010	0.00	0.00	42.5	0.000
1/8/2025 19:00	15.9	9.18	312	3.88	234	0.00	17.41	5.13	0.588	0.938	18.73	0.010	0.00	0.00	42.4	0.000
1/8/2025 20:00	13.7	9.20	325	3.85	234	0.00	17.62	4.42	0.588	0.938	-15.39	0.010	0.00	0.00	42.4	0.000
1/8/2025 21:00	11.5	9.59	343	3.86	234	0.01	17.24	3.89	0.588	0.938	-40.92	0.010	0.00	0.00	42.4	0.000
1/8/2025 22:00	10.1	9.22	311	3.92	234	0.00	17.37	3.25	0.588	0.938	-78.73	0.010	0.00	0.00	42.4	0.000
1/8/2025 23:00	10.4	9.29	329	3.89	234	0.00	17.44	3.39	0.588	0.938	-67.71	0.150	0.15	0.00	42.4	0.000
1/9/2025 0:00	10.7	8.85	297	3.89	234	0.00	17.38	3.33	0.588	0.938	-75.55	0.150	0.00	0.02	42.4	0.000
1/9/2025 1:00	10.2	9.06	309	3.92	234	0.00	17.51	3.26	0.588	0.938	-79.46	0.150	0.00	0.03	42.4	0.000
1/9/2025 2:00	9.7	8.96	308	3.89	234	0.00	17.58	3.06	0.588	0.938	-87.13	0.150	0.00	0.03	42.4	0.000
1/9/2025 3:00	10.7	8.85	303	3.86	234	0.00	17.55	3.32	0.588	0.938	-72.78	0.150	0.00	0.22	42.4	0.002
1/9/2025 4:00	11.0	8.73	295	3.85	234	0.00	17.59	3.36	0.588	0.938	-71.18	0.150	0.00	0.92	42.4	0.008
1/9/2025 5:00	13.2	8.97	307	3.88	234	0.00	17.61	4.15	0.588	0.938	-32.03	0.150	35.83	5.57	42.4	0.051
1/9/2025 6:00	13.7	9.02	314	3.93	234	0.01	17.11	4.33	0.588	0.938	-25.36	0.150	42.49	15.55	42.4	0.144
1/9/2025 7:00	13.7	9.08	315	3.89	234	0.00	17.55	4.36	0.588	0.938	-21.40	0.150	46.46	29.28	42.4	0.267
1/9/2025 8:00	15.7	9.02	316	3.87	234	0.00	17.21	4.99	0.588	0.938	11.28	0.150	79.13	48.10	42.4	0.452
1/9/2025 9:00	14.2	9.22	337	3.85	234	0.00	17.58	4.60	0.588	0.938	-6.23	0.150	61.62	60.99	42.4	0.559
1/9/2025 10:00	13.8	8.64	289	3.89	234	0.00	17.62	4.20	0.588	0.938	-30.85	0.150	37.00	61.71	42.4	0.553
1/9/2025 11:00	16.4	8.70	295	3.98	234	0.00	17.49	5.01	0.588	0.938	5.87	0.150	73.72	54.17	42.4	0.503
1/9/2025 12:00	13.9	8.93	306	4.10	234	0.00	17.62	4.35	0.588	0.938	-35.32	0.150	32.54	48.35	42.4	0.445
1/9/2025 13:00	16.1	8.80	301	4.12	234	0.00	17.71	4.97	0.588	0.938	-4.64	0.150	63.22	48.91	42.4	0.445
1/9/2025 14:00	14.9	8.89	294	4.08	234	0.00	17.21	4.65	0.588	0.938	-18.88	0.150	48.98	54.26	42.4	0.486
1/9/2025 15:00	15.6	8.77	305	4.12	234	0.00	17.28	4.81	0.588	0.938	-13.16	0.150	54.70	54.91	42.4	0.501
1/9/2025 16:00	19.7	8.64	297	4.12	234	0.00	17.33	5.98	0.588	0.938	47.79	0.150	115.64	56.09	42.4	0.511
1/9/2025 17:00	12.9	8.61	294	4.10	234	0.00	17.61	3.90	0.588	0.938	-59.44	0.150	8.42	55.20	42.4	0.508
1/9/2025 18:00	18.0	8.62	294	4.07	234	0.00	13.76	5.44	0.588	0.938	22.66	0.150	90.52	60.03	42.4	0.552
1/9/2025 19:00	17.5	8.55	294	4.08	234	0.00	12.93	5.25	0.588	0.938	12.08	0.150	79.93	84.80	42.4	0.780
1/9/2025 20:00	17.8	8.78	297	4.10	234	0.00	12.82	5.49	0.588	0.938	23.12	0.150	90.97	101.13	42.4	0.928
1/9/2025 21:00	19.6	9.04	313	4.11	234	0.00	12.84	6.24	0.588	0.938	58.98	0.150	126.84	118.58	42.4	1.105
1/9/2025 22:00	21.0	8.75	296	4.13	234	0.00	12.89	6.47	0.588	0.938	71.48	0.150	139.34	120.45	42.5	1.116
1/9/2025 23:00	19.6	8.40	284	4.12	234	0.00	12.89	5.79	0.588	0.938	38.31	0.150	106.17	126.25	42.5	1.169
1/10/2025 0:00	18.1	9.10	329	4.14	234	0.00	12.72	5.79	0.588	0.938	34.15	0.150	102.01	132.09	42.5	1.224
1/10/2025 1:00	22.8	8.90	310	4.16	234	0.00	12.20	7.12	0.588	0.938	100.55	0.150	168.40	154.66	42.5	1.427
1/10/2025 2:00	23.1	8.95	305	4.16	234	0.00	12.72	7.28	0.588	0.938	109.34	0.150	177.20	170.60	42.5	1.586
1/10/2025 3:00	24.2	8.88	305	4.13	234	0.00	12.77	7.54	0.588	0.938	124.73	0.150	192.58	179.83	42.6	1.675
1/10/2025 4:00	21.9	8.27	269	4.15	234	0.00	12.87	6.36	0.588	0.938	68.12	0.150	135.98	164.03	42.6	1.514
1/10/2025 5:00	20.9	8.41	282	4.13	233	0.00	12.87	6.17	0.588	0.938	57.83	0.150	125.68	159.49	42.6	1.481
1/10/2025 6:00	20.9	8.30	272	4.15	234	0.00	12.88	6.11	0.588	0.938	54.46	0.150	122.31	159.34	42.6	1.505
1/10/2025 7:00	28.6	8.49	289	4.15	234	0.01	12.86	8.51	0.588	0.938	178.53	0.150	246.38	180.51	42.7	1.683
1/10/2025 8:00	14.9	8.53	283	4.06	234	0.00	12.84	4.45	0.588	0.938	-28.57	0.150	39.29	163.78	42.7	1.516
1/10/2025 9:00	16.1	7.89	266	4.09	234	0.00	10.35	4.45	0.588	0.938	-31.48	0.150	36.37	118.00	42.7	1.114
1/10/2025 10:00	16.1	8.04	269	4.12	234	0.00	10.44	4.55	0.588	0.938	-27.79	0.150	40.06	59.73	42.7	0.553
1/10/2025 11:00	14.2	8.04	252	4.12	239	0.00	9.68	4.00	0.588	0.938	-59.47	0.150	8.38	28.02	42.7	0.262
1/10/2025 12:00	13.8	8.43	262	4.12	243	0.01	10.28	4.10	0.588	0.938	-52.26	0.150	15.60	19.69	42.7	0.182
1/10/2025 13:00	14.2	7.96	0	-0.01	239	0.00	8.30	3.97	0.588	0.938	457.46	0.150	525.32	32.32	42.8	0.305
1/10/2025 14:00	0.0	9.50	155	-0.02	312	0.00	10.42	0.01	0.588	0.938	0.50	0.150	68.36	69.59	42.8	0.476
1/10/2025 15:00	3.2	8.13	254	-0.02	248	0.00	10.08	0.91	0.588	0.938	49.26	0.150	117.12	94.56	42.8	0.870
1/10/2025 16:00	0.0	7.66	260	-0.02	216	0.00	10.06	0.01	0.588	0.938	0.03	0.150	67.89	99.77	42.8	0.885
1/10/2025 17:00	0.0	8.15	293	-0.02	220	0.00	10.20	0.00	0.588	0.938	-0.03	0.150	67.82	92.05	42.8	0.817
1/10/2025 18:00	1.7	7.71	278	-0.02	220	0.00	10.39	0.46	0.588	0.938	24.93	0.150	92.78	93.14	42.8	0.818
1/10/2025 19:00	3.6	7.72	248	4.60	211	0.01	10.35	0.97	0.588	0.938	-278.38	0.150	0.00	72.93	42.8	0.642
1/10/2025 20:00	26.2	8.85	208	10.12	210	0.00	10.44	8.14	0.588	0.938	-280.58	0.150	0.00	37.90	42.8	0.333
1/10/2025 21:00	49.9	8.98	170	14.25	211	0.00	10.45	15.74	0.588	0.938	-127.89	0.150	0.00	10.84	42.8	0.095
1/10/2025 22:00	52.4	8.81	160	14.80	211	0.00	10.40	16.21	0.588	0.938	-146.04	0.150	0.00	0.24	42.8	0.002
1/10/2025 23:00	50.7	9.13	166	16.11	215	3.43	10.05	16.27	0.588	0.938	-253.08	0.010	0.01	0.47	42.8	0.004
1/11/2025 0:00	89.5	9.09	160	16.30	132	8.36	10.22	28.59	0.588	0.938	-258.58	0.010	0.00	37.59	42.8	0.346
1/11/2025 1:00	97.0	9.15	182	14.53	111	10.02	10.35	31.14	0.588	0.938	-23.39	0.010	229.70	115.76	42.8	1.054
1/11/2025 2:00	99.2	9.24	189	14.64	111	9.94	9.86	32.19	0.588	0.938	71.32	0.010	324.41	191.98	42.9	1.766
1/11/2025 3:00	92.7	8.65	176	12.59	113	9.74	9.76	28.15	0.588	0.938	-44.58	0.010	208.51	238.66	42.9	2.185
1/11/2025 4:00	96.4	8.47	172	12.56	113	9.85	13.79	28.66	0.588	0.938	-8.29	0.010	244.80	239.96	42.9	2.230
1/11/2025 5:00	85.3	8.99	202	11.72	118	9.17	13.68	26.90	0.588	0.938	9.73	0.010	262.81	239.20	43.0	2.225
1/11/2025 6:00	80.6	8.81	206	10.55	123	8.72	13.83	24.95	0.588	0.938	17.73	0.010	270.82	223.82	43.0	2.105
1/11/2025 7:00	82.1	8.77	207	10.56	123	8.68	10.41	25.31	0.588	0.938	50.48	0.010	303.56	262.24	43.1	2.457
1/11/2025 8:00	87.8	8.73	210	10.50	120	9.03	10.34	26.91	0.588	0.938	150.31	0.010	403.40	286.21	43.2	2.602
1/11/2025 9:00	81.7	8.98	208	10.46	119	9.09	10.36	25.76	0.588	0.938	52.15	0.010	305.24	327.05	43.2	2.996
1/11/2025 10:00	85.9	8.73	202	10.36	119	9.08	10.14	26.32	0.588	0.938	112.56	0.010	365.64	313.47	43.3	2.932
1/11/2025 11:00	84.1	8.83	206	10.38	121	8.98	10.39	26.09	0.588	0.938	100.96	0.010	354.05	323.82	43.4	2.927
1/11/2025 12:00	79.2	8.90	219	10.39	120	8.97	10.13	24.74	0.588	0.938	-11.42	0.010	241.66	326.95	43.4	2.945
1/11/2025 13:00	83.8	9.04	229	10.36	121	8.94	9.72	26.62	0.588	0.938	141.58	0.010	394.66	368.67	43.5	3.376

Fuel Gas H2S Estimation

H2S concentration in Fuel Gas is estimated using the best available data and operating information for heat and material balances, supported by the lab analysis of manual sampling.

For Hydrobon/Platformer fired heaters, the SO2 emissions are estimated using the measured average fuel gas flow rate and the estimated H2S concentration in the Fuel Gas.

Date and Time	North Stack SO2	North Stack Flow	Boiler 9 Fuel Gas	Boiler 9 Fuel Oil	Boiler 13 Fuel Gas	Boiler 13 Fuel Oil	LPG Vapourization Rate	Total Boilers Sulphur Emission	LRF Sulphur Content	LRF Density	Raw Estimated Fuel Gas H2S Concentration	Lab Result Fuel Gas H2S Concentration	Corrected Estimated Fuel Gas H2S Concentration	3hr Rolling Average H2S Concentration	365 Day Rolling Average H2S Concentration	Heater SO2 Emissions
	ppmv	MMSCFH	MSCFH	GPM	MSCFH	GPM	MSCFH	kg/hr	%	kg/L	ppmv	ppmv	ppmv	ppmv	ppmv	kg/hr
1/11/2025 14:00	80.6	8.72	225	10.41	121	8.94	10.01	24.66	0.588	0.938	-16.56	0.010	236.53	387.81	43.5	3.667
1/11/2025 15:00	81.5	9.20	247	10.35	122	8.84	9.69	26.32	0.588	0.938	123.54	0.010	376.63	405.49	43.6	3.779
1/11/2025 16:00	78.3	9.16	238	10.25	123	8.72	10.38	25.17	0.588	0.938	59.82	0.010	312.91	383.72	43.6	3.554
1/11/2025 17:00	78.2	9.41	257	10.27	123	8.73	10.03	25.85	0.588	0.938	103.84	0.010	356.92	378.10	43.7	3.477
1/11/2025 18:00	76.8	9.29	235	10.29	123	8.73	9.69	25.05	0.588	0.938	47.26	0.010	300.35	364.01	43.8	3.311
1/11/2025 19:00	84.0	9.00	224	10.32	122	8.84	10.07	26.55	0.588	0.938	153.60	0.010	406.69	387.34	43.8	3.530
1/11/2025 20:00	85.4	8.47	200	10.29	123	8.67	10.22	25.41	0.588	0.938	89.12	0.010	342.21	407.89	43.9	3.831
1/11/2025 21:00	87.1	8.94	221	10.32	125	8.51	10.45	27.34	0.588	0.938	250.24	0.010	503.33	444.27	44.0	4.133
1/11/2025 22:00	86.7	8.67	209	10.31	125	8.50	10.38	26.39	0.588	0.938	184.52	0.010	437.61	442.04	44.1	4.112
1/11/2025 23:00	86.6	8.66	198	10.26	123	8.72	11.94	26.35	0.588	0.938	169.15	0.010	422.24	442.57	44.2	3.963
1/12/2025 0:00	89.2	8.46	192	10.21	122	8.76	11.86	26.50	0.588	0.938	186.47	0.010	439.56	434.64	44.3	3.868
1/12/2025 1:00	80.0	8.93	230	8.96	133	7.55	11.96	25.08	0.588	0.938	293.65	0.010	546.74	458.15	44.4	4.197
1/12/2025 2:00	35.6	8.20	244	7.20	206	0.00	11.82	10.24	0.588	0.938	84.88	0.010	337.97	467.21	44.4	4.243
1/12/2025 3:00	32.0	7.91	253	6.02	207	0.00	11.91	8.90	0.588	0.938	89.05	0.010	342.14	440.36	44.5	4.046
1/12/2025 4:00	33.3	7.99	256	5.89	206	0.00	11.56	9.35	0.588	0.938	125.15	0.010	378.23	387.81	44.6	3.604
1/12/2025 5:00	27.1	8.09	263	5.31	206	0.00	11.96	7.69	0.588	0.938	67.52	0.010	320.61	347.25	44.6	3.181
1/12/2025 6:00	28.7	7.77	260	5.20	206	0.00	11.80	7.84	0.588	0.938	84.81	0.010	337.89	343.88	44.7	3.164
1/12/2025 7:00	28.4	7.79	251	5.05	207	0.00	11.94	7.75	0.588	0.938	92.52	0.010	345.60	345.89	44.7	3.135
1/12/2025 8:00	23.4	7.80	252	4.89	207	0.00	11.99	6.42	0.588	0.938	24.51	0.010	277.60	331.67	44.8	3.028
1/12/2025 9:00	21.5	8.06	273	4.78	206	0.00	11.88	6.08	0.588	0.938	11.51	0.010	264.60	301.59	44.8	2.765
1/12/2025 10:00	20.2	7.68	249	4.65	206	0.00	11.91	5.45	0.588	0.938	-16.01	0.010	237.07	266.81	44.9	2.431
1/12/2025 11:00	20.9	8.05	270	4.26	206	0.00	11.78	5.92	0.588	0.938	38.99	0.010	292.08	248.44	44.9	2.244
1/12/2025 12:00	18.3	7.98	280	3.93	207	0.00	12.21	5.13	0.588	0.938	16.88	0.010	269.96	253.87	45.0	2.328
1/12/2025 13:00	15.2	8.06	282	3.81	206	0.00	11.66	4.30	0.588	0.938	-21.27	0.010	231.82	263.30	45.0	2.373
1/12/2025 14:00	16.7	8.30	299	3.73	206	0.00	11.93	4.86	0.588	0.938	14.91	0.010	267.99	272.92	45.1	2.472
1/12/2025 15:00	16.4	8.00	271	3.71	207	0.00	11.19	4.61	0.588	0.938	3.09	0.010	256.18	271.81	45.1	2.419
1/12/2025 16:00	15.2	7.94	280	3.68	207	0.00	10.85	4.24	0.588	0.938	-15.67	0.010	237.42	269.19	45.2	2.438
1/12/2025 17:00	19.1	7.92	280	3.61	202	0.00	11.38	5.30	0.588	0.938	48.97	0.010	302.06	269.86	45.2	2.489
1/12/2025 18:00	17.1	7.83	267	3.59	202	0.00	11.34	4.71	0.588	0.938	17.41	0.010	270.50	276.46	45.3	2.463
1/12/2025 19:00	15.2	7.84	273	3.49	202	0.00	10.79	4.19	0.588	0.938	-6.09	0.010	247.00	281.08	45.3	2.542
1/12/2025 20:00	15.2	7.95	283	3.31	202	0.00	11.07	4.25	0.588	0.938	10.19	0.010	263.28	282.96	45.3	2.659
1/12/2025 21:00	19.8	8.04	278	4.09	202	0.00	10.62	5.58	0.588	0.938	31.53	0.010	284.62	281.38	45.4	2.587
1/12/2025 22:00	21.0	8.05	277	4.20	202	0.00	11.30	5.94	0.588	0.938	44.63	0.010	297.72	282.81	45.5	2.573
1/12/2025 23:00	20.2	8.23	289	4.12	201	0.00	10.80	5.82	0.588	0.938	42.17	0.010	295.26	289.99	45.5	2.630
1/13/2025 0:00	22.1	7.86	263	4.04	202	0.00	11.38	6.11	0.588	0.938	67.05	0.010	320.14	296.57	45.6	2.655
1/13/2025 1:00	20.2	8.14	290	3.92	202	0.00	10.69	5.76	0.588	0.938	52.14	0.010	305.23	303.48	45.6	2.748
1/13/2025 2:00	20.2	8.13	288	3.88	202	0.00	10.60	5.75	0.588	0.938	55.03	0.010	308.12	310.88	45.7	2.818
1/13/2025 3:00	19.8	8.06	290	3.76	202	0.00	10.65	5.61	0.588	0.938	54.35	0.010	307.44	316.69	45.7	2.875
1/13/2025 4:00	18.3	7.98	294	3.56	202	0.00	11.28	5.12	0.588	0.938	40.84	0.010	293.93	320.01	45.8	2.898
1/13/2025 5:00	18.2	7.81	266	3.59	201	0.00	11.32	5.00	0.588	0.938	34.50	0.010	287.59	318.08	45.8	2.867
1/13/2025 6:00	18.6	7.67	270	3.50	202	0.00	11.33	5.01	0.588	0.938	40.60	0.010	293.69	316.41	45.9	2.829
1/13/2025 7:00	20.7	8.02	286	3.47	202	0.00	10.74	5.83	0.588	0.938	87.44	0.010	340.53	319.42	45.9	2.924
1/13/2025 8:00	14.4	8.01	283	3.67	202	0.00	11.39	4.05	0.588	0.938	-25.76	0.010	227.33	311.42	46.0	2.814
1/13/2025 9:00	13.9	8.17	290	3.59	201	0.00	11.37	3.98	0.588	0.938	-24.10	0.010	228.99	289.91	46.0	2.632
1/13/2025 10:00	16.7	8.08	289	3.67	202	0.00	11.15	4.72	0.588	0.938	11.80	0.010	264.89	264.61	46.1	2.407
1/13/2025 11:00	17.2	8.12	294	3.72	202	0.01	11.27	4.91	0.588	0.938	18.13	0.010	271.21	253.34	46.1	2.309
1/13/2025 12:00	15.8	8.43	305	3.72	202	0.00	11.24	4.68	0.588	0.938	6.07	0.010	259.16	259.19	46.2	2.346
1/13/2025 13:00	14.0	8.26	303	3.66	202	0.00	11.06	4.07	0.588	0.938	-23.17	0.010	229.91	263.19	46.2	2.436
1/13/2025 14:00	17.0	8.21	302	3.61	201	0.00	11.02	4.91	0.588	0.938	25.59	0.010	278.68	264.59	46.3	2.450
1/13/2025 15:00	18.3	8.54	312	3.75	202	0.00	10.59	5.48	0.588	0.938	45.44	0.010	298.53	266.67	46.3	2.469
1/13/2025 16:00	15.1	8.46	310	3.73	202	0.00	11.34	4.48	0.588	0.938	-5.47	0.010	247.61	267.93	46.3	2.416
1/13/2025 17:00	15.3	8.68	331	3.66	202	0.00	11.13	4.65	0.588	0.938	7.91	0.010	260.99	271.05	46.4	2.492
1/13/2025 18:00	17.0	8.65	319	3.82	202	0.00	10.80	5.16	0.588	0.938	24.10	0.010	277.19	272.06	46.4	2.529
1/13/2025 19:00	18.4	8.44	305	3.79	202	0.00	10.90	5.45	0.588	0.938	42.22	0.010	295.31	276.76	46.5	2.517
1/13/2025 20:00	19.6	8.78	329	4.50	201	0.00	10.86	6.03	0.588	0.938	25.35	0.010	278.44	280.31	46.5	2.607
1/13/2025 21:00	21.4	8.70	297	4.41	211	0.00	11.26	6.53	0.588	0.938	59.71	0.010	312.80	284.06	46.6	2.573
1/13/2025 22:00	20.1	8.67	301	4.29	211	0.00	11.22	6.12	0.588	0.938	45.41	0.010	298.50	287.67	46.7	2.636
1/13/2025 23:00	21.7	8.95	334	4.73	211	0.00	10.65	6.83	0.588	0.938	50.46	0.010	0.01	293.88	46.6	2.767
1/14/2025 0:00	20.3	8.93	333	4.72	211	0.00	10.84	6.36	0.588	0.938	28.21	0.010	0.00	199.98	46.6	1.905
1/14/2025 1:00	21.2	9.11	342	4.59	211	0.00	11.23	6.77	0.588	0.938	55.73	0.010	5.29	104.61	46.6	1.006
1/14/2025 2:00	20.8	8.68	317	4.61	211	0.00	11.35	6.35	0.588	0.938	35.15	0.010	0.00	8.01	46.6	0.075
1/14/2025 3:00	22.4	8.89	324	4.61	211	0.01	11.16	6.99	0.588	0.938	67.36	0.010	16.91	12.17	46.6	0.114
1/14/2025 4:00	23.7	8.51	296	4.62	211	0.00	11.18	7.07	0.588	0.938	74.82	0.010	24.37	13.03	46.6	0.118
1/14/2025 5:00	22.9	8.48	293	4.63	211	0.00	11.22	6.83	0.588	0.938	61.59	0.010	11.14	12.03	46.6	0.112
1/14/2025 6:00	22.9	8.46	290	4.62	211	0.00	14.76	6.81	0.588	0.938	61.99	0.010	11.54	8.85	46.6	0.084
1/14/2025 7:00	20.3	8.54	295	4.60	211	0.00	14.68	6.09	0.588	0.938	23.52	0.010	0.00	10.01	46.6	0.090
1/14/2025 8:00	17.3	8.42	283	4.75	211	0.00	14.36	5.12	0.588	0.938	-39.76	0.010	0.00	7.29	46.6	0.068
1/14/2025 9:00	16.6	8.55	304	4.65	211	0.00	14.84	4.98	0.588	0.938	-39.15	0.010	0.00	4.84	46.6	0.045
1/14/2025 10:00	19.3	8.52	301	4.60	211	0.00	14.26	5.76	0.588	0.938	5.77	0.010	0.00	0.00	46.6	0.000
1/14/2025 11:00	18.8	8.33	283	4.58	211	0.00	14.73	5.49	0.588	0.938	-8.18	0.010	0.00	0.00	46.5	0.000
1/14/2025 12:00	17.9	8.52	314	4.52	211	0.00	14.71	5.35	0.588	0.938	-10.91	0.010	0.00	0.00	46.5	0.000
1/14/2025 13:00	19.1	8.51	311	4.43	211	0.00	14.74	5.72	0.588	0.938	14.30	0.010	0.00	0.33	46.5	0.003
1/14/2025 14:00	18.2	8.70	322	4.48	211	0.00	14.70	5.56	0.588	0.938	2.80	0.010	0.00	0.33	46.5	0.003
1/14/2025 15:00	19.1	8.57	311	4.52	211	0.00	14.55	5.74	0.588	0.938	9.23	0.010	0.00	0.50	46.5	0.005
1/14/2025 16:00	17.6	8.53	322	4.58	211	0.00	14.54	5.26	0.588	0.938	-19.05	0.010	0.00	0.21	46.5	0.002
1/14/2025 17:00	18.4	8.86	331	4.56	210	0.00	14.58	5.74	0.588	0.938	6.33	0.010	0.00	0.64	46.5	0.006
1/14/2025 18:00	19.1	8.67	313	4.51	211	0.00	14.72	5.82	0.588	0.938	14.41	0.010	0.00	0.92	46.5	0.009
1/14/2025 19:00	19.8	8.71	309	4.45	211	0.00	14.81	6.06	0.588	0.938	31.43	0.010	0.00	2.03	46.5	0.019
1/14/2025 20:00	19.9	8.50	302	4.42	211	0.00	14.48	5.95	0.588	0.938	27.86	0.010	0.00	2.01	46.5	0.019
1/14/2025 21:00	22.5	8.61	310	4.33	212	0.00	14.66	6.79	0.588	0.938	77.49	0.010	27.04	1.70	46.4	0.016
1/14/2025 22:00	18.6	8.54	311	4.24	211	0.00	14.70	5.56	0.588	0.938	18.41	0.010	0.00	1.00	46.4	0.010
1/14/2025 23:00	20.9	8.57	316	4.39	211	0.00	14.72	6.29	0.588	0.938	46.95	0.010	0.00	0.60	46.4	0.006
1/15/2025 0:00	19.3	8.52	303	4.48	211	0.01	14.50	5.78	0.588	0.938	14.53	0.010	0.00	0.53	46.4	0.005
1/15/2025 1:00	18.7	8.35	291	4.47	211	0.00	14.71	5.47	0.588	0.938	-1.16	0.010	0.00	0.29	46.4	0.003
1/15/2025 2:00	20.7	8.31	286	4.56	211	0.00	14.71	6.04	0.588	0.938	24.22	0.010	0.00	0.56	46.4	0.005
1/15/2025 3:00	17.7	8.42	294	4.49	211	0.00	14.74	5.24	0.588	0.938	-15.20	0.010	0.00	0.65	46.4	0.006
1/15/2025 4:00	20.3	8.40	289	4.49	212	0.00	14.60	6.00	0.588	0.938	26.53	0.010	0.00	0.43	46.4	0.004
1/15/2025 5:00	19.3	8.44	296	4.48	211	0.00	14.84	5.72	0.588	0.938	11.80	0.010	0.00	0.29	46.4	0.003
1/15/2025 6:00	20.5	8.27	287	4.48	211	0.00	14.82	5.95	0.588	0.938	24.38	0.010	0.00	0.32	46.4	0.003
1/15/2025 7:00	17.4	8.35	297	4.49	211	0.00	14.61	5.11	0.588	0.938	-21.74	0.010	0.00	0.93	46.4	0.009
1/15/2025 8:00	19.4	8.38	296	4.44	211	0.01	14.72	5.70	0.588	0.938	12.94	0.010	0.00	1.14	46.3	0.011
1/15/2025 9:00	17.7	8.29	288	4.36	211	0.00	14.52	5.15	0.588	0.938	-11.64	0.010	0.00	1.53	46.3	0.014
1/15/2025 10:00	17.5	8.59	310	4.36	211	0.00	14.58	5.27	0.588	0.938	-4.55	0.010	0.00	1.20	46.3	0.011
1/15/2025 11:00	19.6	8.57	299	4.28	210	0.00	14.74	5.90	0.588	0.938	34.68	0.010	0.00	1.28	46.3	0.012
1/15/2025 12:00	18.2	8.69	315	4.22	211	0.00	12.86	5.57	0.588	0.938	19.63	0.010	0.00	1.10	46.3	0.010
1/15/2025 13:00	20.7	8.54	304	4.24	211	0.00	12.73	6.20	0.588	0.938	52.51	0.010	2.06	1.07	46.3	0.010
1/15/2025 14:00	17.9	8.27	290	4.14	211	0.00	12.76	5.19	0.588	0.938	5.32	0.010	0.00	0.80	46.3	0.007
1/15/2025 15:00	19.3	8.23	296	4.16	211	0.00	9.42	5.58	0.588	0.938	25.12	0.010	0.00	0.95	46.3	0.009
1/15/2025 16:00	21.4	8.53	305	4.05	211	0.00	9.38	6.40	0.588	0.938	74.68	0.010	24.23	0.98	46.3	0.009
1/15/2025 17:00	17.9	8.58	316	4.04	211	0.00	8.35	5.38	0.588	0.938	21.54	0.010	0.00	1.52	46.3	0.014
1/15/2025 18:00	20.2	8.52	312	4.04	211	0.00	8.22	6.03	0.588	0.938	55.02	0.010	4.57	1.44	46.3	0.013
1/15/2025 19:00	20.7	8.44	311	4.04	210	0.00	8.03	6.14	0.588	0.938	60.74	0.010	10.30	3.16	46.2	0.030
1/15/2025 20:00	19.4	8.56	318	4.01	211	0.00	8.16	5.82	0.588	0.938	45.68	0.010	0.00	5.69	46.2	0.054
1/15/2025 21:00	22.0	8.54	320	4.03	211	0.00	8.10	6.60	0.588	0.938	83.50	0.010	33.05	10.18	46.2	0.095
1/15/2025 22:00	21.8	8.15	285	4.06	210	0.00	8.54	6.24	0.588	0.938	68.53	0.010	18.08	11.36	46.2	0.107
1/15/2025 23:00	19.4	8.70	325	4.03	211	0.00	8.00	5.91	0.588	0.938	47.97	6.500	6.50	12.11	46.2	0.113
1/16/2025 0:00	23.5	8.50	313	4.12	211	0.00	8.22	7.00	0.588	0.938	100.11	6.500	58.64	14.53	46.2	0.136
1/16/2025 1:00	22.2	8.72	331	4.16	211	0.00	8.49	6.80	0.588	0.938	83.99	6.500	42.52	24.63	46.2	0.227
1/16/2025 2:00	20.7	8.72	325	4.09	211	0.00	8.61	6.35	0.588	0.938	66.81	6.500	25.34	30.17	46.2	0.280
1/16/2025 3:00	23.0	8.65	319	4.22	211	0.00	8.50	7.00	0.588	0.938	92.40	6.500	50.93	35.94	46.2	0.330
1/16/2025 4:00	24.2	8.33	291	4.19	211	0.00	8.25	7.07	0.588	0.938	103.51	6.500	62.04	36.92	46.2	0.336
1/16/2025 5:00	19.4	8.35	296	4.16	210	0.00	7.92	5.69	0.588	0.938	30.99	6.500	0.00	41.97	46.2	0.384
1/16/2025 6:00	23.5	8.53	298	4.11	211	0.00	8.10	7.04	0.588	0.938	105.98	6.500	64.51	40.11	46.2	0.370
1/16/2025 7:00	21.1	8.43	296	4.13	211	0.00	7.98	6.23	0.588	0.938	61.86	6.500	20.39	43.41	46.2	0.396
1/16/2025 8:00	18.0	8.37	291	4.23	211	0.00	8.01	5.30	0.588	0.938	5.16	6.500	0.00	35.94	46.2	0.323
1/16/2025 9:00	18.6	8.61	308	4.22	211	0.00	9.65	5.61	0.588	0.938	22.22	6.500	0.00	24.64	46.2	0.228
1/16/2025 10:00	18.3	8.62	304	4.28	211	0.00	10.21	5.54	0.588	0.938	14.94	6.500	0.00	7.48	46.2	0.066
1/16/2025 11:00	18.9	8.50	301	4.26	211	0.00	9.66	5.65	0.588	0.938	21.89	6.500	0.00	0.44	46.2	0.004
1/16/2025 12:00	20.0	8.28	285	4.30	211	0.00	10.13	5.82	0.588	0.938	29.30	6.500	0.00	0.44	46.2	0.004
1/16/2025 13:00	17.8	8.44	293	4.42	210	0.00	10.96	5.26	0.588	0.938	-9.26	6.500	0.00	0.29	46.2	0.003
1/16/2025 14:00	18.9	8.61	317	4.51	211	0.00	10.73	5.72	0.588	0.938	8.73	6.500	0.00	0.85	46.1	0.008
1/16/2025 15:00	21.5	8.22	295	4.56	211	0.00	12.85	6.20	0.588	0.938	31.80	6.500	0.00	0.98	46.1	0.009
1/16/2025 16:00	19.8	8.68	311	4.50	211	0.00	12.90	6.05	0.588	0.938	27.24	6.500	0.00	0.86	46.1	0.008
1/16/2025 17:00	16.6	8.63	308	4.38	211	0.00	12.91	5.04	0.588	0.938	-18.47	6.500	0.00	0.63	46.1	0.006
1/16/2025 18:00	20.9	8.48	298	4.36	211	0.00	12.86	6.23	0.588	0.938	47.31	6.500	5.84	0.97	46.1	0.009
1/16/2025 19:00	20.0	8.72	318	4.37	211	0.00	12.91	6.13	0.588	0.938	38.86	6.500	0.00	1.63	46.1	0.015
1/16/2025 20:00	20.7	8.49	297	4.28	211	0.00	12.80	6.17	0.588	0.938	49.00	6.500	7.53	2.88	46.1	0.026

Fuel Gas H2S Estimation

**H2S concentration in Fuel Gas is estimated using the best available data and operating information for heat and material balances, supported by the lab analysis of manual sampling.*

**For Hydrobon/Platformer fired heaters, the SO2 emissions are estimated using the measured average fuel gas flow rate and the estimated H2S concentration in the Fuel Gas.*

Date and Time	North Stack SO2	North Stack Flow	Boiler 9 Fuel Gas	Boiler 9 Fuel Oil	Boiler 13 Fuel Gas	Boiler 13 Fuel Oil	LPG Vapourization Rate	Total Boilers Sulphur Emission	LRF Sulphur Content	LRF Density	Raw Estimated Fuel Gas H2S Concentration	Lab Result Fuel Gas H2S Concentration	Corrected Estimated Fuel Gas H2S Concentration	3hr Rolling Average H2S Concentration	365 Day Rolling Average H2S Concentration	Heater SO2 Emissions
	ppmv	MMSCFH	MSCFH	GPM	MSCFH	GPM	MSCFH	kg/hr	%	kg/L	ppmv	ppmv	ppmv	ppmv	ppmv	kg/hr
1/16/2025 21:00	19.2	9.21	326	4.29	211	0.00	13.00	6.22	0.588	0.938	48.38	6.500	6.91	4.69	46.1	0.042
1/16/2025 22:00	18.4	9.00	320	4.39	210	0.00	12.38	5.81	0.588	0.938	21.31	6.500	0.00	5.08	46.1	0.045
1/16/2025 23:00	22.9	8.88	307	4.36	211	0.00	12.91	7.13	0.588	0.938	93.52	6.500	52.05	5.63	46.1	0.050
1/17/2025 0:00	20.0	8.68	288	4.30	211	0.00	12.88	6.08	0.588	0.938	43.95	6.500	2.48	6.28	46.1	0.055
1/17/2025 1:00	21.9	8.68	282	4.24	211	0.00	12.88	6.69	0.588	0.938	81.99	6.500	40.52	28.96	46.1	0.250
1/17/2025 2:00	22.1	8.57	281	4.21	211	0.01	12.86	6.64	0.588	0.938	81.56	6.500	40.09	40.70	46.1	0.356
1/17/2025 3:00	25.3	8.73	295	4.30	211	0.00	12.80	7.76	0.588	0.938	134.19	6.500	92.72	54.26	46.1	0.474
1/17/2025 4:00	22.7	8.54	282	4.29	211	0.00	14.84	6.81	0.588	0.938	85.27	6.500	43.80	45.28	46.1	0.398
1/17/2025 5:00	22.3	8.75	291	4.21	211	0.00	14.65	6.86	0.588	0.938	92.25	6.500	50.78	46.50	46.1	0.408
1/17/2025 6:00	23.2	8.56	286	4.10	211	0.01	14.71	6.98	0.588	0.938	107.23	6.500	65.77	48.96	46.1	0.431
1/17/2025 7:00	21.2	8.60	292	4.02	211	0.00	14.65	6.41	0.588	0.938	80.13	6.500	38.67	57.49	46.1	0.504
1/17/2025 8:00	15.7	8.70	296	3.98	211	0.00	14.76	4.79	0.588	0.938	-5.49	6.500	0.00	48.27	46.1	0.424
1/17/2025 9:00	16.9	8.53	280	4.21	211	0.00	14.64	5.07	0.588	0.938	-5.92	6.500	0.00	29.35	46.1	0.258
1/17/2025 10:00	18.0	8.66	285	4.17	211	0.00	14.46	5.47	0.588	0.938	18.89	6.500	0.00	6.03	46.0	0.054
1/17/2025 11:00	18.2	8.29	273	4.14	211	0.00	14.55	5.30	0.588	0.938	11.30	6.500	0.00	0.11	46.0	0.001
1/17/2025 12:00	17.3	8.60	298	4.08	211	0.00	14.58	5.22	0.588	0.938	10.62	6.500	0.00	0.08	46.0	0.001
1/17/2025 13:00	15.7	8.99	313	3.85	211	0.00	14.72	4.97	0.588	0.938	12.42	6.500	0.00	0.06	46.0	0.001
1/17/2025 14:00	14.1	8.68	304	3.72	211	0.00	14.69	4.30	0.588	0.938	-14.14	6.500	0.00	0.06	46.0	0.001
1/17/2025 15:00	13.8	8.81	303	3.68	211	0.00	14.71	4.27	0.588	0.938	-13.44	6.500	0.00	0.74	46.0	0.007
1/17/2025 16:00	16.1	8.66	302	3.64	211	0.00	14.63	4.90	0.588	0.938	22.93	6.500	0.00	0.89	46.0	0.008
1/17/2025 17:00	16.1	8.69	297	3.61	211	0.00	14.72	4.92	0.588	0.938	25.80	6.500	0.00	1.27	46.0	0.011
1/17/2025 18:00	15.8	8.67	315	3.66	211	0.00	13.73	4.81	0.588	0.938	16.03	6.500	0.00	0.77	46.0	0.007
1/17/2025 19:00	14.5	8.57	302	3.54	211	0.00	13.77	4.36	0.588	0.938	0.75	6.500	0.00	1.44	46.0	0.013
1/17/2025 20:00	13.5	8.77	302	3.51	211	0.00	13.74	4.15	0.588	0.938	-9.04	6.500	0.00	2.20	45.9	0.020
1/17/2025 21:00	15.4	8.73	314	3.50	211	0.00	13.77	4.73	0.588	0.938	22.53	6.500	0.00	4.29	45.9	0.039
1/17/2025 22:00	15.1	8.70	308	3.42	211	0.00	12.95	4.62	0.588	0.938	21.60	6.500	0.00	5.50	45.9	0.049
1/17/2025 23:00	19.1	8.46	296	3.39	212	0.00	12.89	5.67	0.588	0.938	81.08	0.030	0.03	6.21	45.9	0.055
1/18/2025 0:00	15.8	8.61	305	3.28	211	0.00	12.57	4.79	0.588	0.938	40.13	0.030	0.00	4.08	45.9	0.036
1/18/2025 1:00	15.4	8.50	301	3.22	211	0.00	12.77	4.60	0.588	0.938	34.18	0.030	0.00	2.54	45.9	0.023
1/18/2025 2:00	14.6	8.52	292	3.24	211	0.00	12.85	4.36	0.588	0.938	20.71	0.030	0.00	0.83	45.9	0.007
1/18/2025 3:00	14.3	8.63	293	3.20	210	0.00	12.89	4.32	0.588	0.938	20.86	0.030	0.00	0.97	45.9	0.009
1/18/2025 4:00	16.6	8.40	288	3.16	211	0.00	12.81	4.89	0.588	0.938	55.14	0.030	0.00	0.73	45.9	0.006
1/18/2025 5:00	18.6	8.43	291	3.12	211	0.00	12.79	5.50	0.588	0.938	90.65	0.030	9.60	1.42	45.9	0.013
1/18/2025 6:00	16.3	8.46	294	3.03	211	0.00	12.77	4.83	0.588	0.938	59.87	0.030	0.00	1.57	45.9	0.014
1/18/2025 7:00	17.9	8.60	296	2.94	211	0.00	12.91	5.39	0.588	0.938	96.29	0.030	15.24	2.58	45.8	0.023
1/18/2025 8:00	11.0	8.52	290	2.87	211	0.00	12.79	3.30	0.588	0.938	-12.27	0.030	0.00	3.54	45.8	0.032
1/18/2025 9:00	13.0	8.54	304	2.96	211	0.00	12.59	3.90	0.588	0.938	13.83	0.030	0.00	3.11	45.8	0.028
1/18/2025 10:00	12.1	8.70	301	2.89	210	0.00	12.86	3.68	0.588	0.938	7.10	0.030	0.00	1.80	45.8	0.016
1/18/2025 11:00	10.4	8.37	292	2.85	211	0.00	12.85	3.07	0.588	0.938	-23.82	0.030	0.00	0.00	45.8	0.000
1/18/2025 12:00	14.0	8.74	316	2.81	211	0.00	12.85	4.31	0.588	0.938	44.66	0.030	0.00	0.00	45.8	0.000
1/18/2025 13:00	14.0	8.71	310	2.93	211	0.00	12.94	4.29	0.588	0.938	36.33	0.030	0.00	0.00	45.8	0.000
1/18/2025 14:00	13.7	8.83	321	3.28	211	0.00	12.88	4.23	0.588	0.938	10.67	0.030	0.00	0.00	45.8	0.000
1/18/2025 15:00	15.3	8.74	302	3.61	211	0.00	12.85	4.70	0.588	0.938	13.70	0.030	0.00	0.09	45.8	0.001
1/18/2025 16:00	16.0	8.59	304	3.61	211	0.00	12.82	4.82	0.588	0.938	20.05	0.030	0.00	0.09	45.8	0.001
1/18/2025 17:00	15.9	8.47	286	3.55	211	0.00	12.91	4.74	0.588	0.938	20.42	0.030	0.00	0.09	45.8	0.001
1/18/2025 18:00	16.6	8.73	314	3.61	211	0.00	11.44	5.10	0.588	0.938	34.39	0.030	0.00	0.04	45.7	0.000
1/18/2025 19:00	18.3	9.09	318	3.58	211	0.00	12.81	5.83	0.588	0.938	73.72	0.030	0.00	0.04	45.7	0.000
1/18/2025 20:00	18.9	9.17	304	4.16	218	2.43	12.71	6.09	0.588	0.938	-120.49	0.030	0.00	0.28	45.7	0.003
1/18/2025 21:00	33.1	9.11	312	4.13	180	3.68	14.70	10.59	0.588	0.938	30.25	0.030	0.00	0.31	45.7	0.003
1/18/2025 22:00	37.9	9.15	316	4.05	181	3.62	14.55	12.17	0.588	0.938	126.99	0.030	45.94	1.10	45.7	0.010
1/18/2025 23:00	35.4	8.91	308	4.21	181	3.65	14.52	11.07	0.588	0.938	55.04	0.030	0.00	2.49	45.7	0.023
1/19/2025 0:00	37.0	8.90	311	4.13	181	3.66	14.63	11.57	0.588	0.938	86.39	0.030	5.34	4.36	45.7	0.041
1/19/2025 1:00	37.4	8.57	277	4.19	181	3.64	14.66	11.26	0.588	0.938	71.70	0.030	0.00	6.05	45.7	0.056
1/19/2025 2:00	35.7	8.26	262	4.13	181	3.61	14.74	10.36	0.588	0.938	25.15	0.030	0.00	4.93	45.7	0.046
1/19/2025 3:00	32.3	8.67	286	4.07	182	3.59	14.78	9.85	0.588	0.938	-0.19	0.030	0.00	3.21	45.7	0.030
1/19/2025 4:00	34.3	8.30	275	4.11	181	3.59	14.51	10.01	0.588	0.938	6.27	0.030	0.00	0.83	45.7	0.008
1/19/2025 5:00	38.1	8.63	263	4.96	178	4.13	14.56	11.54	0.588	0.938	-9.15	0.030	0.00	0.34	45.6	0.003
1/19/2025 6:00	54.2	8.43	228	7.95	157	6.16	14.61	16.04	0.588	0.938	-147.48	0.030	0.00	0.12	45.6	0.001
1/19/2025 7:00	75.8	8.69	201	10.23	138	8.06	14.76	23.11	0.588	0.938	-29.16	0.030	0.00	0.32	45.6	0.003
1/19/2025 8:00	80.5	8.92	209	10.33	138	8.07	14.86	25.22	0.588	0.938	130.68	0.030	49.63	12.79	45.6	0.121
1/19/2025 9:00	77.6	9.02	207	10.42	138	8.07	14.88	24.59	0.588	0.938	70.40	0.030	0.00	22.82	45.6	0.211
1/19/2025 10:00	86.9	8.76	179	12.23	136	8.34	14.58	26.74	0.588	0.938	39.63	0.030	0.00	27.93	45.6	0.256
1/19/2025 11:00	87.1	9.32	193	12.04	136	8.31	14.66	28.51	0.588	0.938	210.95	0.030	129.89	40.57	45.6	0.370
1/19/2025 12:00	88.1	9.08	184	12.01	134	8.57	14.76	28.10	0.588	0.938	155.18	0.030	74.13	62.83	45.6	0.565
1/19/2025 13:00	92.8	8.87	173	12.34	134	8.57	14.66	28.90	0.588	0.938	196.13	0.030	115.08	87.56	45.7	0.798
1/19/2025 14:00	92.8	8.96	176	12.34	132	8.79	14.90	29.21	0.588	0.938	197.29	0.030	116.24	119.41	45.7	1.098
1/19/2025 15:00	90.1	8.90	182	12.31	132	8.79	14.70	28.15	0.588	0.938	102.84	0.030	21.79	112.35	45.7	1.049
1/19/2025 16:00	89.5	9.27	199	12.30	132	8.76	14.70	29.15	0.588	0.938	185.24	0.030	104.19	109.09	45.7	1.023
1/19/2025 17:00	94.4	9.29	200	12.58	133	8.73	14.66	30.79	0.588	0.938	297.28	0.030	216.23	99.16	45.7	0.922
1/19/2025 18:00	93.7	9.21	189	12.65	132	8.78	14.72	30.30	0.588	0.938	251.27	0.030	170.22	120.91	45.7	1.117
1/19/2025 19:00	93.0	9.24	197	12.62	131	8.85	14.86	30.19	0.588	0.938	232.41	0.030	151.36	141.66	45.8	1.303
1/19/2025 20:00	87.3	9.26	198	12.67	131	8.86	14.60	28.41	0.588	0.938	73.88	0.030	0.00	129.47	45.7	1.196
1/19/2025 21:00	86.3	9.73	219	12.78	131	8.87	14.59	29.47	0.588	0.938	142.65	0.030	61.59	109.65	45.7	1.004
1/19/2025 22:00	88.6	9.68	210	12.87	130	8.89	14.66	30.09	0.588	0.938	185.58	0.030	104.53	87.25	45.8	0.808
1/19/2025 23:00	92.1	9.42	198	12.92	131	8.92	14.86	30.48	0.588	0.938	216.18	0.030	135.13	76.21	45.8	0.706
1/20/2025 0:00	89.1	9.60	206	12.83	130	8.95	14.63	30.00	0.571	0.936	251.28	0.030	170.23	80.70	45.8	0.752
1/20/2025 1:00	89.8	9.61	210	12.85	130	8.96	14.79	30.30	0.571	0.936	270.22	0.030	189.16	118.79	45.8	1.105
1/20/2025 2:00	89.0	9.76	215	12.84	130	8.98	14.49	30.48	0.571	0.936	280.07	0.030	199.02	152.87	45.9	1.426
1/20/2025 3:00	89.7	9.92	226	12.85	129	8.99	14.87	31.25	0.571	0.936	329.72	0.030	248.67	179.04	45.9	1.668
1/20/2025 4:00	88.3	9.98	227	12.71	129	9.07	14.79	30.92	0.571	0.936	307.86	0.030	226.81	174.63	45.9	1.634
1/20/2025 5:00	88.8	10.03	227	12.88	129	9.12	14.65	31.29	0.571	0.936	315.44	0.030	234.39	167.89	46.0	1.683
1/20/2025 6:00	95.5	9.43	198	12.90	125	9.47	14.84	31.64	0.571	0.936	339.35	0.030	258.30	172.17	46.0	1.615
1/20/2025 7:00	91.4	9.65	205	12.99	123	9.58	14.96	30.98	0.571	0.936	254.88	0.030	173.83	190.53	46.1	1.787
1/20/2025 8:00	87.2	9.33	192	12.98	124	9.62	14.21	28.56	0.571	0.936	47.66	0.030	0.00	170.46	46.0	1.616
1/20/2025 9:00	86.2	9.44	202	12.99	124	9.58	14.79	28.58	0.571	0.936	51.16	0.030	0.00	124.63	46.0	1.162
1/20/2025 10:00	87.7	9.22	183	12.98	122	9.76	14.70	28.39	0.571	0.936	16.18	0.030	0.00	57.76	46.0	0.540
1/20/2025 11:00	84.3	9.73	216	12.95	122	9.73	14.77	28.80	0.571	0.936	54.85	0.030	0.00	40.77	46.0	0.416
1/20/2025 12:00	86.5	9.33	195	12.98	123	9.70	14.79	28.36	0.571	0.936	20.14	0.030	0.00	34.88	46.0	0.343
1/20/2025 13:00	86.4	9.77	217	12.96	122	9.74	14.89	29.66	0.571	0.936	124.32	0.030	43.26	38.66	46.0	0.377
1/20/2025 14:00	88.1	9.43	198	12.92	122	9.77	14.79	29.17	0.571	0.936	89.94	0.030	8.89	40.14	46.0	0.426
1/20/2025 15:00	84.7	9.80	219	12.94	122	9.84	14.48	29.14	0.571	0.936	70.80	0.030	0.00	44.23	46.0	0.415
1/20/2025 16:00	88.2	9.32	196	12.95	119	10.06	14.41	28.87	0.571	0.936	27.51	0.030	0.00	45.55	46.0	0.427
1/20/2025 17:00	89.7	9.22	215	12.88	119	10.09	14.53	29.06	0.571	0.936	45.19	0.030	0.00	48.46	46.0	0.471
1/20/2025 18:00	94.8	9.13	208	12.90	118	10.11	12.87	30.38	0.571	0.936	154.24	0.030	73.18	58.48	46.0	0.554
1/20/2025 19:00	94.4	9.40	209	13.03	119	10.07	12.80	31.15	0.571	0.936	209.31	0.030	128.26	66.66	46.0	0.630
1/20/2025 20:00	87.1	9.71	216	13.00	119	10.04	12.71	29.71	0.571	0.936	91.47	0.030	10.42	72.41	46.0	0.688
1/20/2025 21:00	89.5	9.53	207	12.99	119	10.02	14.06	29.96	0.571	0.936	119.55	0.030	38.49	77.33	46.0	0.745
1/20/2025 22:00	89.2	9.42	207	12.95	120	10.04	13.73	29.52	0.571	0.936	82.86	0.030	1.81	86.24	46.0	0.822
1/20/2025 23:00	86.6	9.66	231	12.86	120	10.06	13.90	29.39	0.571	0.936	74.10	0.040	0.04	91.36	46.0	0.876
1/21/2025 0:00	88.0	9.67	219	12.92	119	10.09	13.59	29.87	0.571	0.936	106.75	0.040	32.69	89.44	46.0	0.860
1/21/2025 1:00	90.9	9.41	204	13.00	119	10.10	15.71	30.05	0.571	0.936	119.61	0.040	45.56	78.15	46.0	0.751
1/21/2025 2:00	93.0	9.40	204	12.97	119	10.09	15.17	30.68	0.571	0.936	177.36	0.040	103.30	78.61	46.0	0.731
1/21/2025 3:00	91.3	9.32	202	12.97	119	10.14	15.29	29.88	0.571	0.936	104.12	0.040	30.06	74.27	46.0	0.734
1/21/2025 4:00	91.9	9.51	209	12.91	118	10.14	15.78	30.68	0.571	0.936	176.96	0.040	102.90	87.88	46.0	0.846
1/21/2025 5:00	89.0	9.52	213	12.86	119	10.11	15.34	29.75	0.571	0.936	104.06	0.040	30.01	83.40	46.0	0.793
1/21/2025 6:00	90.9	9.44	202	12.88	118	10.14	15.90	30.14	0.571	0.936	136.65	0.040	62.59	84.50	46.0	0.791
1/21/2025 7:00	87.2	9.66	217	12.87	118	10.15	15.72	29.59	0.571	0.936	84.73	0.040	10.68	72.36	46.0	0.694
1/21/2025 8:00	88.4	9.59	214	12.84	118	10.17	15.69	29.78	0.571	0.936	100.97	0.040	26.92	63.13	46.0	0.629
1/21/2025 9:00	86.7	9.81	231	12.84	118	10.17	15.55	29.88	0.571	0.936	104.48	0.040	30.42	57.00	46.0	0.547
1/21/2025 10:00	87.9	9.72	222	12.93	119	10.13	15.95	30.01	0.571	0.936	113.41	0.040	39.35	47.55	46.0	0.443
1/21/2025 11:00	89.7	9.28	191	13.00	119	10.11	15.65	29.21	0.571	0.936	47.14	0.040	0.00	45.91	46.0	0.437
1/21/2025 12:00	86.8	9.59	219	12.95	119	10.08	15.55	29.23	0.571	0.936	53.39	0.040	0.00	37.71	45.9	0.353
1/21/2025 13:00	91.2	9.32	198	12.83	119	10.07	15.48	29.84	0.571	0.936	125.00	0.040	50.94	31.69	45.9	0.297
1/21/2025 14:00	89.2	9.58	218	12.97	120	9.99	15.74	29.98	0.571	0.936	123.04	0.040	48.98	23.21	45.9	0.220
1/21/2025 15:00	86.6	9.75	219	12.93	119	10.03	15.72	29.64	0.571	0.936	95.00	0.040	20.94	18.97	45.9	0.177
1/21/2025 16:00	83.9	9.88	238	12.87	120	10.02	15.71	29.13	0.571	0.936	56.24	0.040	0.00	15.23	45.9	0.141
1/21/2025 17:00	84.0	9.88	222	12.84	119	10.07	15.63	29.14	0.571	0.936	57.15	0.040	0.00	13.45	45.9	0.127
1/21/2025 18:00	86.5	9.73	223	12.81	119	10.14	15.61	29.55	0.571	0.936	86.10	0.040	12.04	13.95	45.9	0.133
1/21/2025 19:00	89.3	9.56	210	12.81	118	10.22	15.38	29.97	0.571	0.936	116.03	0.040	41.97	18.09	45.9	0.173
1/21/2025 20:00	85.1	9.44	209	12.81	117	10.22	15.80	28.21	0.571	0.936	-33.75	0.040	0.00	32.74	45.9	0.301
1/21/2025 21:00	88.2	9.75	226	12.77	118	10.15	15.47	30.19	0.571	0.936	139.24	0.040	65.18	43.64	45.9	0.404
1/21/2025 22:00	84.4	9.86	227	12.87	119	10.11	15.14	29.23	0.571	0.936	56.38	0.040	0.00	47.84	45.9	0.434
1/21/2025 23:00	85.2	10.05	241	12.84	119	10.10	15.62	30.06	0.571	0.936	121.50	0.040	47.44	43.60	45.9	0.400
1/22/2025 0:00	85.8	9.86	233	12.87	119	10.08	15.74	29.69	0.571	0.936	94.68	0.040	20.62	41.45	45.9	0.377
1/22/2025 1:00	87.7	9.83	230	12.86	119	10.06	15.23	30.27	0.571	0.936	144.83	0.040	70.77	46.85	45.9	0.446
1/22/2025 2:00	88.5	9.88	221	12.85	119	10.13	15.46	30.70	0.571	0.936	177.85	0.040	103.79	62.87	45.9	0.581
1/22/2025 3:00	91.0	9.56	212	12.73	119	10.16	15.44	30.55	0.571	0.936	179.06	0.040	105.00	77.35	45.9	0.720

Fuel Gas H2S Estimation

**H2S concentration in Fuel Gas is estimated using the best available data and operating information for heat and material balances, supported by the lab analysis of manual sampling.*

**For Hydrobon/Platformer fired heaters, the SO2 emissions are estimated using the measured average fuel gas flow rate and the estimated H2S concentration in the Fuel Gas.*

Date and Time	North Stack SO2	North Stack Flow	Boiler 9 Fuel Gas	Boiler 9 Fuel Oil	Boiler 13 Fuel Gas	Boiler 13 Fuel Oil	LPG Vapourization Rate	Total Boilers Sulphur Emission	LRF Sulphur Content	LRF Density	Raw Estimated Fuel Gas H2S Concentration	Lab Result Fuel Gas H2S Concentration	Corrected Estimated Fuel Gas H2S Concentration	3hr Rolling Average H2S Concentration	365 Day Rolling Average H2S Concentration	Heater SO2 Emissions
	ppmv	MMSCFH	MSCFH	GPM	MSCFH	GPM	MSCFH	kg/hr	%	kg/L	ppmv	ppmv	ppmv	ppmv	ppmv	kg/hr
1/22/2025 4:00	91.6	9.79	224	12.87	119	10.16	15.56	31.48	0.571	0.936	235.09	0.040	161.03	91.40	45.9	0.845
1/22/2025 5:00	91.7	9.62	216	12.87	118	10.17	15.42	30.97	0.571	0.936	197.90	0.040	123.84	91.73	46.0	0.849
1/22/2025 6:00	87.2	9.90	232	12.88	118	10.15	15.95	30.33	0.571	0.936	136.97	0.040	62.91	94.98	46.0	0.874
1/22/2025 7:00	90.5	9.73	218	13.14	118	10.20	11.57	30.92	0.571	0.936	161.20	0.040	87.15	88.69	46.0	0.828
1/22/2025 8:00	90.9	9.66	214	13.13	117	10.26	12.03	30.83	0.571	0.936	150.09	0.040	76.03	80.49	46.0	0.746
1/22/2025 9:00	90.5	9.58	210	13.13	118	10.27	12.20	30.43	0.571	0.936	116.92	0.040	42.86	67.80	46.0	0.627
1/22/2025 10:00	85.9	9.40	208	12.31	121	9.95	11.90	28.35	0.571	0.936	58.02	0.040	0.00	63.30	46.0	0.591
1/22/2025 11:00	85.5	9.50	215	12.16	118	10.16	12.04	28.53	0.571	0.936	63.76	0.040	0.00	56.39	46.0	0.527
1/22/2025 12:00	84.8	9.60	226	11.99	119	10.12	11.92	28.59	0.571	0.936	86.95	0.040	12.89	50.15	46.0	0.449
1/22/2025 13:00	82.1	9.70	234	11.77	120	10.10	11.88	27.94	0.571	0.936	57.28	0.040	0.00	41.40	45.9	0.376
1/22/2025 14:00	85.4	9.88	226	11.72	118	10.13	12.52	29.63	0.571	0.936	196.27	0.040	122.21	38.49	46.0	0.335
1/22/2025 15:00	84.8	9.54	214	12.06	120	10.08	11.85	28.40	0.571	0.936	71.48	0.040	0.00	40.94	46.0	0.365
1/22/2025 16:00	86.3	9.72	217	13.09	121	9.87	11.70	29.46	0.571	0.936	80.25	0.040	6.19	41.20	45.9	0.374
1/22/2025 17:00	90.4	9.99	223	14.07	121	9.85	11.50	31.73	0.571	0.936	169.06	0.040	95.00	38.89	46.0	0.353
1/22/2025 18:00	88.5	9.82	214	13.91	122	9.85	11.88	30.51	0.571	0.936	88.53	0.040	14.47	30.38	45.9	0.270
1/22/2025 19:00	86.2	9.97	232	13.95	123	9.72	11.87	30.18	0.571	0.936	67.89	0.040	0.00	28.99	45.9	0.265
1/22/2025 20:00	89.0	9.64	201	13.76	122	9.78	11.95	30.13	0.571	0.936	83.95	0.040	9.89	28.95	45.9	0.261
1/22/2025 21:00	92.9	9.52	196	13.89	124	9.54	11.94	31.05	0.571	0.936	178.31	0.040	104.25	34.33	45.9	0.303
1/22/2025 22:00	89.5	9.77	206	13.87	124	9.60	11.92	30.72	0.571	0.936	139.20	0.040	65.14	37.05	45.9	0.336
1/22/2025 23:00	89.2	9.59	200	13.87	123	9.74	11.92	30.01	0.571	0.936	66.94	0.020	0.02	42.66	45.9	0.387
1/23/2025 0:00	87.9	9.84	214	13.86	123	9.67	12.12	30.35	0.571	0.936	99.96	0.020	33.04	42.83	45.9	0.376
1/23/2025 1:00	90.4	9.84	214	13.76	123	9.70	11.97	31.24	0.571	0.936	179.48	0.020	112.56	64.97	46.0	0.578
1/23/2025 2:00	91.3	9.65	209	13.78	126	9.42	11.92	30.93	0.571	0.936	183.12	0.020	116.20	81.70	46.0	0.735
1/23/2025 3:00	87.8	9.87	228	13.59	126	9.46	12.75	30.41	0.571	0.936	146.03	0.020	79.11	94.55	46.0	0.849
1/23/2025 4:00	85.0	9.95	218	13.63	126	9.40	12.85	29.70	0.571	0.936	95.92	0.020	29.00	83.08	46.0	0.737
1/23/2025 5:00	84.6	10.01	243	13.39	128	9.15	12.79	29.76	0.571	0.936	138.43	0.020	71.51	74.44	46.0	0.710
1/23/2025 6:00	87.7	9.52	196	13.41	127	9.32	14.09	29.30	0.571	0.936	100.17	0.020	33.26	70.36	46.0	0.621
1/23/2025 7:00	88.8	9.65	207	13.41	127	9.28	13.66	30.11	0.571	0.936	168.18	0.020	101.26	76.28	46.0	0.680
1/23/2025 8:00	85.9	9.65	210	13.37	126	9.38	13.93	29.10	0.571	0.936	76.34	0.020	9.42	70.39	46.0	0.625
1/23/2025 9:00	85.1	9.70	206	13.53	127	9.26	13.82	28.98	0.571	0.936	64.94	0.020	0.00	59.39	46.0	0.526
1/23/2025 10:00	90.1	9.34	208	13.69	127	9.23	13.64	29.56	0.571	0.936	98.99	0.020	32.07	46.41	46.0	0.417
1/23/2025 11:00	64.4	8.94	240	11.57	172	4.53	13.61	20.24	0.571	0.936	35.97	0.020	0.00	45.39	46.0	0.414
1/23/2025 12:00	58.1	8.96	245	10.73	178	3.92	13.57	18.29	0.571	0.936	25.44	0.020	0.00	38.82	45.9	0.352
1/23/2025 13:00	57.0	8.91	242	10.03	181	3.67	14.55	17.82	0.571	0.936	71.14	0.020	4.22	24.06	45.9	0.217
1/23/2025 14:00	31.6	9.08	320	3.80	182	3.47	14.62	10.09	0.571	0.936	55.87	0.020	0.00	19.14	45.9	0.172
1/23/2025 15:00	29.2	8.99	310	2.96	182	3.54	14.75	9.24	0.571	0.936	61.17	0.020	0.00	15.80	45.9	0.135
1/23/2025 16:00	33.7	8.99	311	4.67	184	3.30	14.68	10.64	0.571	0.936	42.09	0.020	0.00	14.37	45.9	0.129
1/23/2025 17:00	32.0	8.93	303	4.72	184	3.28	12.34	10.02	0.571	0.936	6.63	0.020	0.00	2.11	45.9	0.019
1/23/2025 18:00	34.5	9.27	327	4.65	185	3.16	12.73	11.24	0.571	0.936	84.64	0.020	17.72	2.65	45.9	0.024
1/23/2025 19:00	26.1	8.99	314	4.48	186	3.11	12.81	8.25	0.571	0.936	-63.11	0.020	0.00	3.21	45.9	0.029
1/23/2025 20:00	12.8	8.80	309	4.18	215	0.00	12.83	3.96	0.571	0.936	-53.29	0.020	0.00	3.72	45.9	0.033
1/23/2025 21:00	11.8	9.04	319	4.10	215	0.00	12.98	3.73	0.571	0.936	-58.94	0.020	0.00	2.08	45.9	0.019
1/23/2025 22:00	13.2	8.91	331	3.99	216	0.00	12.88	4.11	0.571	0.936	-31.45	0.020	0.00	0.73	45.9	0.007
1/23/2025 23:00	16.2	8.67	320	3.99	216	0.00	12.95	4.94	0.571	0.936	9.78	0.020	0.00	0.00	45.8	0.000
1/24/2025 0:00	17.4	8.83	308	3.92	215	0.00	12.91	5.38	0.571	0.936	37.34	0.020	0.00	0.00	45.8	0.000
1/24/2025 1:00	13.7	8.63	299	3.77	216	0.00	12.87	4.16	0.571	0.936	-17.13	0.020	0.00	0.00	45.8	0.000
1/24/2025 2:00	13.4	8.62	296	3.78	215	0.00	12.93	4.04	0.571	0.936	-24.37	0.020	0.00	0.00	45.8	0.000
1/24/2025 3:00	15.1	8.66	296	3.89	216	0.00	12.88	4.60	0.571	0.936	-1.99	0.020	0.00	0.00	45.8	0.000
1/24/2025 4:00	20.0	8.57	290	3.98	215	0.00	12.81	6.03	0.571	0.936	70.08	0.020	3.16	0.00	45.8	0.000
1/24/2025 5:00	17.4	8.66	291	3.94	215	0.00	14.60	5.30	0.571	0.936	33.00	0.020	0.00	0.02	45.8	0.000
1/24/2025 6:00	14.4	8.22	260	3.88	220	0.00	14.65	4.16	0.571	0.936	-26.26	0.020	0.00	0.35	45.8	0.003
1/24/2025 7:00	14.2	8.48	285	3.94	220	0.00	14.54	4.22	0.571	0.936	-25.37	0.020	0.00	0.35	45.8	0.003
1/24/2025 8:00	17.2	8.65	284	3.91	220	0.00	14.89	5.22	0.571	0.936	30.75	0.020	0.00	1.40	45.8	0.013
1/24/2025 9:00	17.7	8.37	272	3.86	220	0.00	16.63	5.21	0.571	0.936	34.85	0.020	0.00	1.38	45.8	0.012
1/24/2025 10:00	16.1	8.67	292	3.76	220	0.00	16.83	4.90	0.571	0.936	22.97	0.020	0.00	1.79	45.7	0.015
1/24/2025 11:00	20.4	8.34	262	3.66	220	0.00	16.61	5.97	0.571	0.936	92.65	0.020	25.73	1.33	45.7	0.012
1/24/2025 12:00	17.1	8.45	276	3.62	220	0.00	16.37	5.08	0.571	0.936	43.03	0.020	0.00	1.77	45.7	0.016
1/24/2025 13:00	15.5	8.87	305	3.54	220	0.00	16.62	4.84	0.571	0.936	32.84	0.020	0.00	2.20	45.7	0.020
1/24/2025 14:00	15.2	8.81	301	3.48	220	0.00	16.28	4.69	0.571	0.936	28.53	0.020	0.00	2.33	45.7	0.021
1/24/2025 15:00	17.1	8.75	306	3.27	220	0.01	16.79	5.27	0.571	0.936	71.65	0.020	4.73	2.77	45.7	0.025
1/24/2025 16:00	15.5	8.37	278	3.18	220	0.00	16.67	4.56	0.571	0.936	43.04	0.020	0.00	2.99	45.7	0.027
1/24/2025 17:00	14.8	8.62	283	2.98	220	0.00	16.27	4.48	0.571	0.936	51.23	0.020	0.00	3.29	45.7	0.029
1/24/2025 18:00	13.9	8.83	304	3.05	220	0.00	14.90	4.30	0.571	0.936	35.15	0.020	0.00	3.40	45.7	0.030
1/24/2025 19:00	14.8	8.90	297	3.26	220	0.01	14.63	4.63	0.571	0.936	39.54	0.020	0.00	4.43	45.7	0.040
1/24/2025 20:00	17.8	8.76	288	3.73	220	0.00	14.81	5.47	0.571	0.936	56.19	0.020	0.00	5.63	45.7	0.050
1/24/2025 21:00	19.4	8.62	281	3.65	220	0.00	14.69	5.88	0.571	0.936	84.44	0.020	17.52	5.50	45.7	0.049
1/24/2025 22:00	16.1	8.53	284	3.54	220	0.00	14.62	4.81	0.571	0.936	32.63	0.020	0.00	5.25	45.6	0.047
1/24/2025 23:00	18.1	8.37	276	3.59	220	0.00	14.58	5.31	0.571	0.936	57.28	87.900	87.90	3.56	45.7	0.032
1/25/2025 0:00	20.5	8.54	288	3.46	220	0.00	14.62	6.14	0.571	0.936	108.70	87.900	139.31	30.97	45.7	0.280
1/25/2025 1:00	18.0	8.58	291	3.38	220	0.00	14.56	5.44	0.571	0.936	75.80	87.900	106.41	67.28	45.7	0.605
1/25/2025 2:00	18.1	8.68	292	3.29	220	0.00	14.62	5.50	0.571	0.936	85.03	87.900	115.64	100.12	45.7	0.898
1/25/2025 3:00	18.4	8.45	284	3.20	220	0.00	14.75	5.45	0.571	0.936	89.66	87.900	120.28	104.68	45.7	0.955
1/25/2025 4:00	16.1	8.59	284	3.20	220	0.00	14.78	4.85	0.571	0.936	56.72	87.900	87.34	99.23	45.7	0.891
1/25/2025 5:00	18.1	8.61	296	3.01	221	0.00	14.54	5.46	0.571	0.936	99.50	87.900	130.12	101.52	45.7	0.911
1/25/2025 6:00	18.4	8.91	332	3.07	220	0.00	14.57	5.77	0.571	0.936	105.06	87.900	135.68	105.91	45.8	0.953
1/25/2025 7:00	16.1	8.79	296	3.01	220	0.00	14.67	4.96	0.571	0.936	73.49	87.900	104.11	111.85	45.8	1.000
1/25/2025 8:00	12.9	8.73	297	2.91	220	0.00	14.66	3.95	0.571	0.936	25.71	87.900	56.33	101.99	45.8	0.908
1/25/2025 9:00	13.1	8.84	306	2.92	220	0.00	14.61	4.08	0.571	0.936	31.31	87.900	61.92	87.26	45.8	0.773
1/25/2025 10:00	14.2	8.67	296	2.86	220	0.00	14.58	4.32	0.571	0.936	48.44	87.900	79.05	71.06	45.8	0.636
1/25/2025 11:00	13.5	8.80	325	2.81	220	0.00	14.61	4.16	0.571	0.936	41.28	87.900	71.90	70.74	45.8	0.629
1/25/2025 12:00	13.5	9.15	334	2.72	220	0.00	14.60	4.33	0.571	0.936	54.16	87.900	84.77	73.08	45.8	0.646
1/25/2025 13:00	16.5	8.94	323	2.73	220	0.00	14.68	5.19	0.571	0.936	97.86	87.900	128.47	80.03	45.8	0.712
1/25/2025 14:00	13.6	8.45	292	2.72	220	0.00	14.68	4.04	0.571	0.936	42.63	87.900	73.25	80.26	45.8	0.706
1/25/2025 15:00	12.8	8.63	288	2.64	220	0.00	14.69	3.88	0.571	0.936	39.86	87.900	70.48	83.40	45.8	0.726
1/25/2025 16:00	13.9	8.77	307	2.56	220	0.00	14.54	4.27	0.571	0.936	63.88	87.900	94.50	80.97	45.8	0.714
1/25/2025 17:00	12.1	8.70	306	2.48	220	0.00	14.79	3.70	0.571	0.936	39.18	87.900	69.79	82.37	45.8	0.724
1/25/2025 18:00	10.8	8.91	310	2.44	220	0.00	13.71	3.39	0.571	0.936	25.14	87.900	55.75	79.93	45.8	0.701
1/25/2025 19:00	14.1	9.02	323	2.46	220	0.01	13.81	4.47	0.571	0.936	77.55	87.900	108.17	80.05	45.8	0.708
1/25/2025 20:00	11.5	9.00	311	2.37	220	0.00	13.81	3.64	0.571	0.936	42.09	87.900	72.71	84.84	45.9	0.752
1/25/2025 21:00	14.5	8.81	316	2.35	220	0.00	13.80	4.48	0.571	0.936	86.07	87.900	116.69	85.50	45.9	0.753
1/25/2025 22:00	11.2	8.97	331	2.28	220	0.00	13.65	3.53	0.571	0.936	40.39	87.900	71.01	89.13	45.9	0.786
1/25/2025 23:00	11.2	8.94	336	2.14	220	0.00	13.76	3.52	0.571	0.936	47.73	0.140	0.14	89.71	45.9	0.795
1/26/2025 0:00	11.6	8.88	314	2.20	220	0.00	14.75	3.60	0.571	0.936	50.69	0.140	3.10	68.80	45.9	0.608
1/26/2025 1:00	12.1	8.89	320	2.22	220	0.01	14.70	3.79	0.571	0.936	57.83	0.140	10.25	49.02	45.8	0.435
1/26/2025 2:00	14.5	8.70	308	2.27	221	0.00	14.73	4.42	0.571	0.936	89.40	0.140	41.81	22.82	45.8	0.200
1/26/2025 3:00	13.6	8.76	307	2.30	220	0.00	14.67	4.17	0.571	0.936	74.64	0.140	27.05	25.79	45.8	0.226
1/26/2025 4:00	12.8	8.77	308	2.23	221	0.00	14.63	3.95	0.571	0.936	67.32	0.140	19.73	25.16	45.8	0.222
1/26/2025 5:00	13.5	8.95	326	2.28	220	0.00	14.59	4.25	0.571	0.936	77.32	0.140	29.73	29.29	45.8	0.258
1/26/2025 6:00	14.2	8.95	325	2.13	220	0.00	14.83	4.47	0.571	0.936	96.99	0.140	49.40	30.78	45.8	0.270
1/26/2025 7:00	15.7	8.87	297	3.50	220	0.00	14.74	4.91	0.571	0.936	39.52	0.140	0.00	32.61	45.8	0.288
1/26/2025 8:00	16.4	8.46	278	3.76	220	0.00	14.53	4.89	0.571	0.936	22.25	0.140	0.00	22.39	45.8	0.198
1/26/2025 9:00	19.8	8.68	288	3.78	220	0.00	14.69	6.05	0.571	0.936	83.62	0.140	36.03	13.04	45.8	0.115
1/26/2025 10:00	19.6	8.62	279	3.79	219	0.00	14.59	5.92	0.571	0.936	77.53	0.140	29.95	1.80	45.8	0.016
1/26/2025 11:00	16.5	8.56	277	3.75	220	0.00	14.62	4.96	0.571	0.936	27.77	0.140	0.00	2.68	45.8	0.024
1/26/2025 12:00	18.5	8.59	286	3.87	220	0.01	14.69	5.58	0.571	0.936	52.70	0.140	5.11	4.26	45.8	0.038
1/26/2025 13:00	20.8	8.61	291	3.99	220	0.00	14.62	6.28	0.571	0.936	82.47	0.140	34.89	6.36	45.8	0.056
1/26/2025 14:00	17.8	8.66	282	4.02	220	0.01	14.61	5.42	0.571	0.936	34.32	0.140	0.00	7.79	45.8	0.069
1/26/2025 15:00	19.8	8.71	291	4.09	219	0.00	14.67	6.06	0.571	0.936	63.64	0.140	16.05	9.42	45.8	0.083
1/26/2025 16:00	19.7	8.40	268	4.03	220	0.01	14.69	5.80	0.571	0.936	56.29	0.140	8.70	13.26	45.8	0.116
1/26/2025 17:00	22.2	8.85	300	4.07	220	0.00	14.74	6.89	0.571	0.936	107.94	0.140	60.35	17.93	45.8	0.157
1/26/2025 18:00	16.5	8.93	300	4.01	219	0.01	14.69	5.18	0.571	0.936	21.64	0.140	0.00	20.31	45.8	0.178
1/26/2025 19:00	19.2	8.79	291	4.03	225	0.00	14.58	5.94	0.571	0.936	60.86	0.140	13.27	21.90	45.8	0.192
1/26/2025 20:00	20.2	8.86	300	4.00	224	0.00	14.57	6.27	0.571	0.936	79.29	0.140	31.70	23.94	45.8	0.212
1/26/2025 21:00	17.8	9.27	314	3.91	224	0.00	14.60	5.80	0.571	0.936	58.69	0.140	11.10	28.01	45.7	0.247
1/26/2025 22:00	18.6	9.09	307	3.88	224	0.00	14.62	5.93	0.571	0.936	67.15	0.140	19.56	29.14	45.7	0.255
1/26/2025 23:00	17.3	9.13	311	3.88	225	0.00	14.64	5.53	0.571	0.936	47.23	0.140	0.00	31.89	45.7	0.281
1/27/2025 0:00	18.1	9.09	322	4.00	225	0.01	14.66	5.79	0.571	0.936	51.64	0.140	4.05	32.56	45.7	0.288
1/27/2025 1:00	20.5	9.16	321	4.00	225	0.00	14.71	6.61	0.571	0.936	92.90	0.140	45.31	36.45	45.7	0.323
1/27/2025 2:00	18.9	8.85	296	3.97	225	0.00	14.73	5.87	0.571	0.936	60.06	0.140	12.47	34.62	45.7	0.309
1/27/2025 3:00	20.9	8.95	295	3.98	224	0.00	14.70	6.58	0.571	0.936	97.26	0.140	49.67	36.48	45.7	0.323
1/27/2025 4:00	18.6	8.97	309	3.91	225	0.00	14.72	5.85	0.571	0.936	61.54	0.140	13.95	35.22	45.7	0.310
1/27/2025 5:00	22.6	9.09	314	4.02	224	0.00	16.57	7.21	0.571	0.936	123.90	0.140	76.32	34.91	45.7	0.309
1/27/2025 6:00	19.0	9.01	310	4.03	225	0.00	16.71	6.00	0.571	0.936	61.98	0.140	14.40	31.85	45.7	0.281
1/27/2025 7:00	22.0	9.11	312	4.00	224	0.00	16.65	7.05	0.571	0.936	117.22	0.140	69.64	32.67	45.7	0.291
1/27/2025 8:00	14.5	9.05	300	3.92	224	0.01	16.34	4.59	0.571	0.936	-4.15	0.140	0.00	31.67	45.7	0.276
1/27/2025 9:00	15.8	9.27	335	3.98	224	0.00	16.49	5.13	0.571	0.936	19.23	0.140	0.00	22.20	45.7	0.198
1/27/2025 10:00	16.5	9.24	327	4.01	225	0.00	16.60	5.36	0.571	0.936	29.34	0.140	0.00	10.15	45.7	0.090

Fuel Gas H2S Estimation

**H2S concentration in Fuel Gas is estimated using the best available data and operating information for heat and material balances, supported by the lab analysis of manual sampling.*

**For Hydrobon/Platformer fired heaters, the SO2 emissions are estimated using the measured average fuel gas flow rate and the estimated H2S concentration in the Fuel Gas.*

Date and Time	North Stack SO2	North Stack Flow	Boiler 9 Fuel Gas	Boiler 9 Fuel Oil	Boiler 13 Fuel Gas	Boiler 13 Fuel Oil	LPG Vapourization Rate	Total Boilers Sulphur Emission	LRF Sulphur Content	LRF Density	Raw Estimated Fuel Gas H2S Concentration	Lab Result Fuel Gas H2S Concentration	Corrected Estimated Fuel Gas H2S Concentration	3hr Rolling Average H2S Concentration	365 Day Rolling Average H2S Concentration	Heater SO2 Emissions
	ppmv	MMSCFH	MSCFH	GPM	MSCFH	GPM	MSCFH	kg/hr	%	kg/L	ppmv	ppmv	ppmv	ppmv	ppmv	kg/hr
1/27/2025 11:00	15.9	9.07	315	3.98	225	0.00	16.50	4.65	0.571	0.936	-4.63	0.140	0.00	1.91	45.7	0.017
1/27/2025 12:00	16.8	9.27	315	4.07	225	0.00	16.50	5.02	0.571	0.936	8.70	0.140	0.00	1.74	45.7	0.015
1/27/2025 13:00	11.0	9.29	333	3.27	225	0.00	16.45	3.29	0.571	0.936	-29.68	0.140	0.00	0.88	45.7	0.008
1/27/2025 14:00	11.5	9.42	333	3.76	224	0.00	16.47	3.49	0.571	0.936	-48.51	0.140	0.00	0.39	45.7	0.003
1/27/2025 15:00	15.6	9.12	309	3.76	225	0.01	16.59	4.57	0.571	0.936	4.70	0.140	0.00	0.17	45.6	0.002
1/27/2025 16:00	16.6	9.28	326	3.85	225	0.00	16.42	4.97	0.571	0.936	19.05	0.140	0.00	0.31	45.6	0.003
1/27/2025 17:00	16.3	9.14	325	4.09	224	0.00	14.62	4.79	0.571	0.936	-3.98	0.140	0.00	0.32	45.6	0.003
1/27/2025 18:00	20.7	9.34	338	4.17	224	0.00	14.74	6.23	0.571	0.936	61.75	0.140	14.17	0.58	45.6	0.005
1/27/2025 19:00	15.0	9.36	329	4.14	224	0.00	14.72	4.52	0.571	0.936	-20.33	0.140	0.00	1.58	45.6	0.014
1/27/2025 20:00	16.0	9.57	351	3.91	224	0.00	14.60	4.94	0.571	0.936	13.44	0.140	0.00	1.54	45.6	0.014
1/27/2025 21:00	14.4	9.30	331	3.77	225	0.00	15.58	4.30	0.571	0.936	-8.91	0.140	0.00	1.43	45.6	0.012
1/27/2025 22:00	15.5	9.20	312	3.73	224	0.00	15.60	4.60	0.571	0.936	8.15	0.140	0.00	0.22	45.6	0.002
1/27/2025 23:00	18.3	9.03	308	3.69	225	0.00	15.68	5.32	0.571	0.936	47.84	0.140	0.25	0.43	45.6	0.004
1/28/2025 0:00	14.9	9.14	314	3.71	224	0.00	15.56	4.40	0.571	0.936	-1.34	0.140	0.00	0.93	45.6	0.008
1/28/2025 1:00	18.0	9.15	309	3.60	225	0.00	15.63	5.31	0.571	0.936	52.84	0.140	5.26	1.68	45.6	0.015
1/28/2025 2:00	15.9	9.08	315	3.83	225	0.00	15.61	4.64	0.571	0.936	3.86	0.140	0.00	1.61	45.6	0.014
1/28/2025 3:00	18.2	9.25	322	3.84	225	0.00	15.61	5.43	0.571	0.936	42.73	0.140	0.00	1.30	45.5	0.011
1/28/2025 4:00	18.6	9.23	312	3.83	224	0.00	15.64	5.52	0.571	0.936	49.18	0.140	1.60	1.01	45.5	0.009
1/28/2025 5:00	16.5	9.23	319	3.74	225	0.00	15.57	4.91	0.571	0.936	23.18	0.140	0.00	1.56	45.5	0.014
1/28/2025 6:00	21.6	9.46	344	4.48	225	0.00	15.45	6.58	0.571	0.936	59.64	0.140	12.05	1.87	45.5	0.017
1/28/2025 7:00	21.5	9.59	337	4.41	224	0.00	15.50	6.66	0.571	0.936	68.85	0.140	21.27	4.21	45.5	0.037
1/28/2025 8:00	19.3	9.34	317	4.50	225	0.00	15.72	5.82	0.571	0.936	23.13	0.140	0.00	4.72	45.5	0.042
1/28/2025 9:00	17.1	8.84	292	4.49	224	0.00	15.47	4.87	0.571	0.936	-25.18	0.140	0.00	4.08	45.5	0.037
1/28/2025 10:00	19.5	8.84	295	4.53	225	0.00	15.35	5.55	0.571	0.936	8.53	0.140	0.00	1.31	45.5	0.012
1/28/2025 11:00	18.3	8.83	288	4.55	225	0.00	15.50	5.20	0.571	0.936	-11.46	0.140	0.00	0.05	45.5	0.000
1/28/2025 12:00	20.1	8.86	286	4.59	224	0.00	15.70	5.72	0.571	0.936	13.85	0.140	0.00	0.14	45.5	0.001
1/28/2025 13:00	18.2	8.71	281	4.41	224	0.00	15.68	5.09	0.571	0.936	-8.89	0.140	0.00	0.32	45.5	0.003
1/28/2025 14:00	17.5	8.81	290	4.20	225	0.00	15.49	4.96	0.571	0.936	-2.24	0.140	0.00	0.82	45.5	0.007
1/28/2025 15:00	20.1	8.91	299	4.18	224	0.01	15.49	5.78	0.571	0.936	42.18	0.140	0.00	0.81	45.4	0.007
1/28/2025 16:00	15.7	9.05	304	4.23	225	0.00	15.47	4.59	0.571	0.936	-22.97	0.140	0.00	0.87	45.4	0.007
1/28/2025 17:00	21.5	9.16	314	4.47	225	0.00	15.52	6.36	0.571	0.936	52.88	0.140	5.29	0.78	45.4	0.007
1/28/2025 18:00	22.0	8.95	307	4.67	225	0.00	11.86	6.34	0.571	0.936	40.11	0.140	0.00	0.97	45.4	0.009
1/28/2025 19:00	17.5	9.11	333	4.56	225	0.00	11.90	5.14	0.571	0.936	-13.80	0.140	0.00	0.83	45.4	0.007
1/28/2025 20:00	17.6	9.22	313	4.63	225	0.00	11.70	5.22	0.571	0.936	-14.57	0.140	0.00	0.51	45.4	0.004
1/28/2025 21:00	19.6	8.74	295	4.68	224	0.00	12.02	5.53	0.571	0.936	-2.19	0.140	0.00	0.32	45.4	0.003
1/28/2025 22:00	21.7	8.66	281	4.67	224	0.00	11.94	6.06	0.571	0.936	26.74	0.140	0.00	1.48	45.4	0.013
1/28/2025 23:00	23.1	9.06	316	4.49	224	0.00	11.55	6.74	0.571	0.936	70.46	0.140	22.87	3.23	45.4	0.028
1/29/2025 0:00	25.1	8.78	291	4.23	225	0.00	12.18	7.11	0.571	0.936	109.44	0.140	61.85	6.47	45.4	0.056
1/29/2025 1:00	21.0	8.62	282	4.19	225	0.00	11.54	5.83	0.571	0.936	45.46	0.140	0.00	11.26	45.4	0.098
1/29/2025 2:00	23.5	8.46	271	4.27	224	0.00	11.93	6.39	0.571	0.936	72.32	0.140	24.73	14.00	45.4	0.121
1/29/2025 3:00	22.4	8.76	294	4.40	225	0.00	12.01	6.31	0.571	0.936	56.44	0.140	8.85	16.74	45.4	0.146
1/29/2025 4:00	22.8	8.84	303	4.41	224	0.00	11.87	6.50	0.571	0.936	64.76	0.140	17.17	15.19	45.4	0.132
1/29/2025 5:00	22.5	8.46	273	4.29	224	0.00	12.22	6.13	0.571	0.936	56.16	0.140	8.58	16.29	45.3	0.142
1/29/2025 6:00	18.2	8.89	302	4.34	225	0.00	12.90	5.21	0.571	0.936	1.95	0.140	0.00	14.19	45.3	0.126
1/29/2025 7:00	21.5	8.99	308	4.53	224	0.00	12.87	6.22	0.571	0.936	42.29	0.140	0.00	15.63	45.3	0.136
1/29/2025 8:00	19.5	8.98	302	4.57	224	0.00	12.84	5.63	0.571	0.936	10.23	0.140	0.00	10.52	45.3	0.092
1/29/2025 9:00	20.8	8.82	294	4.61	225	0.00	12.81	5.91	0.571	0.936	22.54	0.140	0.00	7.11	45.3	0.063
1/29/2025 10:00	22.1	8.76	291	4.63	224	0.00	12.99	6.25	0.571	0.936	39.47	0.140	0.00	1.86	45.3	0.016
1/29/2025 11:00	22.9	8.99	305	4.64	225	0.00	12.84	6.61	0.571	0.936	56.36	0.140	8.77	2.16	45.3	0.019
1/29/2025 12:00	24.7	8.69	286	4.61	224	0.00	14.63	6.91	0.571	0.936	76.24	0.140	28.65	5.13	45.3	0.045
1/29/2025 13:00	23.3	8.82	288	4.52	224	0.00	14.62	6.62	0.571	0.936	66.66	0.140	19.07	10.96	45.3	0.096
1/29/2025 14:00	22.3	9.07	305	4.45	224	0.00	14.69	6.50	0.571	0.936	62.33	0.140	14.74	15.96	45.3	0.141
1/29/2025 15:00	21.6	9.12	316	4.48	225	0.00	14.76	6.35	0.571	0.936	51.47	0.140	3.89	21.72	45.3	0.193
1/29/2025 16:00	21.3	9.16	318	4.43	225	0.00	14.74	6.28	0.571	0.936	50.81	0.140	3.22	21.42	45.3	0.191
1/29/2025 17:00	22.8	8.97	298	4.43	225	0.00	14.52	6.59	0.571	0.936	68.95	0.140	21.36	22.15	45.3	0.197
1/29/2025 18:00	24.0	8.98	297	4.41	225	0.00	14.57	6.92	0.571	0.936	87.57	0.140	39.98	22.51	45.3	0.201
1/29/2025 19:00	23.3	9.25	302	4.43	224	0.00	14.81	6.93	0.571	0.936	86.60	0.140	39.02	30.22	45.3	0.272
1/29/2025 20:00	24.5	8.95	287	4.46	224	0.00	14.65	7.05	0.571	0.936	93.82	0.140	46.24	38.47	45.3	0.340
1/29/2025 21:00	24.6	9.09	290	4.64	224	0.00	14.69	7.20	0.571	0.936	89.55	0.140	41.96	41.92	45.3	0.379
1/29/2025 22:00	22.2	8.98	305	4.51	224	0.00	14.54	6.43	0.571	0.936	54.94	0.140	7.35	38.66	45.2	0.353
1/29/2025 23:00	20.4	9.04	309	4.35	225	0.00	14.70	5.94	0.571	0.936	39.04	0.130	0.13	34.37	45.2	0.319
1/30/2025 0:00	23.5	8.79	321	4.27	224	0.00	14.65	6.64	0.571	0.936	78.20	0.130	39.29	31.49	45.2	0.300
1/30/2025 1:00	22.2	8.74	301	4.33	225	0.00	14.71	6.24	0.571	0.936	56.34	0.130	17.43	30.11	45.2	0.279
1/30/2025 2:00	21.5	8.80	301	4.27	225	0.00	14.76	6.08	0.571	0.936	52.00	0.130	13.10	26.51	45.2	0.247
1/30/2025 3:00	20.8	8.68	293	4.27	225	0.00	14.65	5.80	0.571	0.936	38.08	0.130	0.00	21.23	45.2	0.198
1/30/2025 4:00	23.8	8.80	311	4.37	225	0.00	14.75	6.74	0.571	0.936	78.45	0.130	39.55	16.75	45.2	0.156
1/30/2025 5:00	21.8	8.79	307	4.34	224	0.01	14.62	6.16	0.571	0.936	51.13	0.130	12.22	14.80	45.2	0.139
1/30/2025 6:00	19.4	8.65	288	4.45	224	0.00	16.31	5.41	0.571	0.936	5.98	0.130	0.00	13.00	45.2	0.121
1/30/2025 7:00	22.7	8.64	290	4.41	225	0.00	16.48	6.32	0.571	0.936	57.56	0.130	18.65	12.39	45.2	0.115
1/30/2025 8:00	17.3	8.99	319	4.44	225	0.00	18.34	5.01	0.571	0.936	-13.59	0.130	0.00	9.82	45.2	0.093
1/30/2025 9:00	16.0	8.89	309	4.32	225	0.00	18.20	4.58	0.571	0.936	-29.08	0.130	0.00	6.71	45.2	0.063
1/30/2025 10:00	15.0	8.87	322	4.17	225	0.00	18.17	4.29	0.571	0.936	-34.02	0.130	0.00	2.51	45.2	0.024
1/30/2025 11:00	14.8	8.23	265	4.01	225	0.00	20.18	3.93	0.571	0.936	-47.87	0.130	0.00	0.05	45.2	0.000
1/30/2025 12:00	16.8	8.32	274	4.01	224	0.00	20.15	4.51	0.571	0.936	-14.33	0.130	0.00	0.03	45.2	0.000
1/30/2025 13:00	14.8	8.47	257	4.05	224	0.00	20.19	4.02	0.571	0.936	-45.80	0.130	0.00	0.00	45.1	0.000
1/30/2025 14:00	14.8	8.82	298	4.03	225	0.00	20.14	4.21	0.571	0.936	-31.11	0.130	0.00	0.00	45.1	0.000
1/30/2025 15:00	17.1	8.88	287	4.09	225	0.00	20.06	4.89	0.571	0.936	0.90	0.130	0.00	0.00	45.1	0.000
1/30/2025 16:00	14.9	8.95	304	4.04	224	0.00	19.28	4.29	0.571	0.936	-27.35	0.130	0.00	0.00	45.1	0.000
1/30/2025 17:00	16.5	8.72	277	3.90	224	0.00	18.47	4.63	0.571	0.936	-1.00	0.130	0.00	0.00	45.1	0.000
1/30/2025 18:00	14.9	8.17	257	3.81	220	0.00	18.32	3.91	0.571	0.936	-36.62	0.130	0.00	0.11	45.1	0.001
1/30/2025 19:00	17.2	8.55	276	3.78	221	0.00	18.20	4.74	0.571	0.936	13.03	0.130	0.00	0.54	45.1	0.005
1/30/2025 20:00	19.6	8.73	287	4.19	220	0.00	18.50	5.51	0.571	0.936	28.59	0.130	0.00	0.69	45.1	0.006
1/30/2025 21:00	21.2	8.44	264	4.12	220	0.00	18.30	5.77	0.571	0.936	50.01	0.130	11.11	0.88	45.1	0.008
1/30/2025 22:00	16.6	8.64	272	4.13	220	0.00	18.53	4.62	0.571	0.936	-16.30	0.130	0.00	0.51	45.1	0.004
1/30/2025 23:00	16.6	8.51	271	4.20	221	0.00	18.23	4.55	0.571	0.936	-24.79	0.130	0.00	0.79	45.1	0.007
1/31/2025 0:00	21.4	8.40	259	4.25	220	0.00	18.34	5.78	0.571	0.936	41.82	0.130	2.92	1.93	45.1	0.017
1/31/2025 1:00	17.7	8.43	268	4.11	220	0.00	18.34	4.80	0.571	0.936	-5.14	0.130	0.00	3.47	45.0	0.030
1/31/2025 2:00	21.7	8.80	306	3.97	220	0.00	18.36	6.16	0.571	0.936	74.96	0.130	36.05	9.75	45.0	0.086
1/31/2025 3:00	23.5	8.78	291	4.07	220	0.00	18.26	6.63	0.571	0.936	96.70	0.130	57.79	15.71	45.0	0.138
1/31/2025 4:00	18.4	8.43	266	4.01	220	0.00	18.39	4.99	0.571	0.936	12.83	0.130	0.00	21.70	45.0	0.189
1/31/2025 5:00	19.0	8.45	261	4.09	220	0.00	18.45	5.17	0.571	0.936	17.60	0.130	0.00	19.60	45.0	0.170
1/31/2025 6:00	21.4	8.47	271	4.08	220	0.00	14.54	5.84	0.571	0.936	55.31	0.130	16.41	14.25	45.0	0.124
1/31/2025 7:00	19.7	8.54	272	4.12	220	0.00	14.81	5.42	0.571	0.936	29.37	0.130	0.00	12.36	45.0	0.107
1/31/2025 8:00	19.6	8.42	269	4.06	220	0.00	14.58	5.31	0.571	0.936	27.20	0.130	0.00	9.16	45.0	0.079
1/31/2025 9:00	18.5	8.33	264	4.00	220	0.00	14.84	4.97	0.571	0.936	12.00	0.130	0.00	10.92	45.0	0.095
1/31/2025 10:00	18.9	8.45	273	3.90	220	0.00	14.67	5.15	0.571	0.936	28.41	0.130	0.00	8.08	45.0	0.070
1/31/2025 11:00	16.9	8.53	287	3.76	220	0.00	13.83	4.64	0.571	0.936	8.87	0.130	0.00	7.32	45.0	0.064
1/31/2025 12:00	15.9	8.42	276	3.74	220	0.00	13.79	4.32	0.571	0.936	-7.14	0.130	0.00	5.22	45.0	0.045
1/31/2025 13:00	20.7	8.59	283	3.77	220	0.00	12.80	5.72	0.571	0.936	66.97	0.130	28.06	10.22	45.0	0.089
1/31/2025 14:00	18.6	8.68	288	3.71	219	0.00	12.85	5.19	0.571	0.936	41.79	0.130	2.88	18.89	45.0	0.164
1/31/2025 15:00	18.0	8.88	306	3.74	220	0.00	12.87	5.15	0.571	0.936	36.25	0.130	0.00	32.66	44.9	0.284
1/31/2025 16:00	19.5	8.82	299	3.84	220	0.01	12.91	5.53	0.571	0.936	50.10	0.130	11.20	34.95	44.9	0.303
1/31/2025 17:00	22.2	8.70	298	3.80	220	0.01	12.83	6.21	0.571	0.936	88.71	0.130	49.80	34.24	44.9	0.292
1/31/2025 18:00	22.4	9.11	316	3.76	220	0.00	13.76	6.56	0.571	0.936	106.33	0.130	67.42	36.88	44.9	0.323
1/31/2025 19:00	19.9	8.95	311	3.78	220	0.00	13.69	5.74	0.571	0.936	64.21	0.130	25.30	48.20	44.9	0.418
1/31/2025 20:00	20.9	8.96	315	3.78	221	0.00	13.76	6.04	0.571	0.936	78.69	0.130	39.79	45.70	44.9	0.407
1/31/2025 21:00	17.9	9.08	309	3.81	220	0.00	13.74	5.23	0.571	0.936	36.19	0.130	0.00	34.27	44.9	0.304
1/31/2025 22:00	20.1	9.06	309	3.79	220	0.00	13.81	5.87	0.571	0.936	70.57	0.130	31.66	21.97	44.9	0.198
1/31/2025 23:00	19.1	8.87	304	3.85	220	0.00	13.67	5.45	0.571	0.936	45.21	4.510	4.51	22.89	44.9	0.208
2/1/2025 0:00	20.1	9.09	329	3.81	220	0.00	13.62	5.87	0.571	0.936	66.97	4.510	26.27	21.06	44.9	0.195
2/1/2025 1:00	19.4	9.02	314	3.87	220	0.00	13.70	5.62	0.571	0.936	51.85	4.510	11.14	24.85	44.9	0.227
2/1/2025 2:00	22.0	8.88	308	3.89	220	0.00	13.69	6.30	0.571	0.936	86.82	4.510	46.12	25.00	44.9	0.238
2/1/2025 3:00	21.0	8.83	311	3.87	220	0.00	13.83	5.97	0.571	0.936	70.82	4.510	30.12	27.89	44.9	0.256
2/1/2025 4:00	17.3	8.86	308	3.82	220	0.00	13.89	4.94	0.571	0.936	20.41	4.510	0.00	21.57	44.9	0.197
2/1/2025 5:00	21.4	8.83	302	3.90	225	0.00	13.66	6.10	0.571	0.936	75.34	4.510	34.63	18.43	44.9	0.168
2/1/2025 6:00	22.6	8.82	292	4.09	229	0.00	13.54	6.42	0.571	0.936	81.59	4.510	40.89	21.39	44.9	0.193
2/1/2025 7:00	22.9	8.73	277	4.13	229	0.00	13.77	6.44	0.571	0.936	82.28	4.510	41.57	34.04	44.9	0.307
2/1/2025 8:00	16.9	8.72	281	4.01	230	0.00	13.59	4.74	0.571	0.936	-1.49	4.510	0.00	34.92	44.9	0.320
2/1/2025 9:00	13.2	8.61	276	4.05	229	0.00	13.85	3.66	0.571	0.936	-62.60	4.510	0.00	24.21	44.9	0.220
2/1/2025 10:00	18.0	8.82	287	4.02	230	0.00	13.79	5.11	0.571	0.936	17.64	4.510	0.00	5.20	44.9	0.048
2/1/2025 11:00	17.4	8.62	286	3.98	229	0.00	13.69	4.83	0.571	0.936	4.58	4.510	0.00	0.79	44.9	0.007
2/1/2025 12:00	19.4	8.87	296	3.99	230	0.00	13.72	5.54	0.571	0.936	40.95	4.510	0.25	0.99	44.9	0.009
2/1/2025 13:00	19.4	9.09	285	4.69	229	0.00	13.77	5.67	0.571	0.936	4.50	4.510	0.00	1.60	44.8	0.015
2/1/2025 14:00	17.3	8.94	295	4.77	229	0.00	13.80	4.97	0.571	0.936	-36.37	4.510	0.00	1.81	44.8	0.017
2/1/2025 15:00	17.2	8.45	255	4.69	229	0.00	13.76	4.68	0.571	0.936	-50.54	4.510	0.00	1.61	44.8	0.015
2/1/2025 16:00	16.1	8.54	262	4.60	230	0.00	13.72	4.41	0.571	0.936	-59.10	4.510	0.00	0.70	44.8	0.006
2/1/2025 17:00	17.6	8.49	266	4.51	229	0.00	10.60	4.81	0.571	0.936	-30.55	4.510	0.00	0.00	44.8	0.000

Fuel Gas H2S Estimation

**H2S concentration in Fuel Gas is estimated using the best available data and operating information for heat and material balances, supported by the lab analysis of manual sampling.*

**For Hydrobon/Platformer fired heaters, the SO2 emissions are estimated using the measured average fuel gas flow rate and the estimated H2S concentration in the Fuel Gas.*

Date and Time	North Stack SO2	North Stack Flow	Boiler 9 Fuel Gas	Boiler 9 Fuel Oil	Boiler 13 Fuel Gas	Boiler 13 Fuel Oil	LPG Vapourization Rate	Total Boilers Sulphur Emission	LRF Sulphur Content	LRF Density	Raw Estimated Fuel Gas H2S Concentration	Lab Result Fuel Gas H2S Concentration	Corrected Estimated Fuel Gas H2S Concentration	3hr Rolling Average H2S Concentration	365 Day Rolling Average H2S Concentration	Heater SO2 Emissions
	ppmv	MMSCFH	MSCFH	GPM	MSCFH	GPM	MSCFH	kg/hr	%	kg/L	ppmv	ppmv	ppmv	ppmv	ppmv	kg/hr
2/1/2025 18:00	13.9	8.65	276	4.50	230	0.00	9.10	3.88	0.571	0.936	-78.82	4.510	0.00	0.00	44.8	0.000
2/1/2025 19:00	16.3	8.76	292	4.63	230	0.00	8.77	4.59	0.571	0.936	-47.47	4.510	0.00	0.00	44.8	0.000
2/1/2025 20:00	19.4	8.90	301	4.67	229	0.00	10.70	5.56	0.571	0.936	0.11	4.510	0.00	0.14	44.8	0.001
2/1/2025 21:00	22.8	9.12	303	4.69	230	0.00	11.40	6.69	0.571	0.936	56.53	4.510	15.83	1.01	44.8	0.009
2/1/2025 22:00	20.1	8.79	273	4.67	229	0.00	11.14	5.69	0.571	0.936	7.32	4.510	0.00	2.50	44.8	0.023
2/1/2025 23:00	21.0	8.97	294	4.57	229	0.00	10.99	6.06	0.571	0.936	32.47	4.510	0.00	2.75	44.8	0.025
2/2/2025 0:00	19.2	8.84	286	4.51	229	0.00	10.91	5.47	0.571	0.936	5.51	4.510	0.00	1.88	44.8	0.017
2/2/2025 1:00	17.6	8.64	273	4.62	230	0.00	11.15	4.89	0.571	0.936	-33.10	4.510	0.00	0.39	44.7	0.004
2/2/2025 2:00	19.2	8.85	283	4.49	229	0.00	11.18	5.47	0.571	0.936	6.69	4.510	0.00	0.00	44.7	0.000
2/2/2025 3:00	17.6	8.48	264	4.57	229	0.00	11.09	4.80	0.571	0.936	-34.70	4.510	0.00	0.00	44.7	0.000
2/2/2025 4:00	20.7	9.09	301	4.55	229	0.00	11.29	6.05	0.571	0.936	32.27	4.510	0.00	0.36	44.7	0.003
2/2/2025 5:00	22.1	9.05	294	4.54	229	0.00	11.07	6.45	0.571	0.936	55.01	4.510	14.30	4.68	44.7	0.042
2/2/2025 6:00	25.3	8.92	300	4.58	229	0.00	10.47	7.26	0.571	0.936	92.98	4.510	52.27	13.74	44.7	0.126
2/2/2025 7:00	25.5	9.12	304	4.44	229	0.00	10.69	7.47	0.571	0.936	112.08	4.510	71.37	30.07	44.7	0.270
2/2/2025 8:00	18.7	9.09	304	4.46	229	0.00	10.63	5.47	0.571	0.936	8.36	4.510	0.00	33.95	44.7	0.304
2/2/2025 9:00	18.7	9.13	303	4.45	229	0.00	10.85	5.50	0.571	0.936	10.45	4.510	0.00	25.02	44.7	0.224
2/2/2025 10:00	17.6	8.67	279	4.49	229	0.00	11.20	4.92	0.571	0.936	-22.51	4.510	0.00	8.35	44.7	0.075
2/2/2025 11:00	18.6	8.32	260	4.59	229	0.00	11.27	4.98	0.571	0.936	-26.73	4.510	0.00	0.26	44.7	0.002
2/2/2025 12:00	17.9	8.76	276	4.56	229	0.00	11.00	5.04	0.571	0.936	-21.18	4.510	0.00	0.13	44.7	0.001
2/2/2025 13:00	19.1	8.73	277	4.56	230	0.00	10.64	5.38	0.571	0.936	-2.11	4.510	0.00	3.45	44.7	0.031
2/2/2025 14:00	16.6	8.38	261	4.57	229	0.00	10.61	4.49	0.571	0.936	-52.61	4.510	0.00	3.34	44.7	0.030
2/2/2025 15:00	14.6	8.86	280	4.53	229	0.00	10.83	4.17	0.571	0.936	-65.02	4.510	0.00	3.34	44.7	0.030
2/2/2025 16:00	16.3	8.70	278	4.54	230	0.00	11.30	4.57	0.571	0.936	-45.14	4.510	0.00	0.00	44.6	0.000
2/2/2025 17:00	17.7	8.54	274	4.46	229	0.00	10.71	4.87	0.571	0.936	-23.87	4.510	0.00	0.00	44.6	0.000
2/2/2025 18:00	14.3	8.61	269	4.50	230	0.00	9.82	3.97	0.571	0.936	-75.64	4.510	0.00	0.00	44.6	0.000
2/2/2025 19:00	18.4	8.72	278	4.37	229	0.00	9.82	5.16	0.571	0.936	-2.16	4.510	0.00	5.41	44.6	0.048
2/2/2025 20:00	22.5	8.42	263	4.46	229	0.00	10.40	6.10	0.571	0.936	43.50	4.510	2.79	5.42	44.6	0.048
2/2/2025 21:00	23.9	8.63	283	4.48	230	0.00	10.35	6.63	0.571	0.936	68.59	4.510	27.88	6.52	44.6	0.059
2/2/2025 22:00	24.6	9.02	314	4.38	229	0.00	11.21	7.13	0.571	0.936	96.57	4.510	55.87	14.62	44.6	0.136
2/2/2025 23:00	24.2	9.05	333	4.40	229	0.00	10.79	7.05	0.571	0.936	87.95	4.510	47.24	29.18	44.6	0.269
2/3/2025 0:00	22.5	8.89	329	4.32	229	0.00	12.91	6.42	0.561	0.939	66.31	4.510	25.60	40.84	44.6	0.378
2/3/2025 1:00	24.2	9.08	340	4.27	229	0.00	12.92	7.08	0.561	0.939	99.04	4.510	58.34	54.55	44.6	0.506
2/3/2025 2:00	21.8	9.09	326	4.24	229	0.00	12.87	6.39	0.561	0.939	70.06	4.510	29.35	61.60	44.6	0.568
2/3/2025 3:00	24.2	8.80	306	4.28	229	0.00	12.86	6.86	0.561	0.939	94.23	4.510	53.53	66.89	44.6	0.614
2/3/2025 4:00	25.6	8.53	286	4.30	229	0.00	12.88	7.03	0.561	0.939	105.89	4.510	65.18	59.99	44.6	0.546
2/3/2025 5:00	24.6	8.51	282	4.31	230	0.00	12.81	6.74	0.561	0.939	89.87	4.510	49.16	60.30	44.6	0.552
2/3/2025 6:00	26.0	8.54	277	4.35	229	0.00	12.88	7.14	0.561	0.939	110.18	4.510	69.47	62.85	44.6	0.569
2/3/2025 7:00	23.6	8.66	291	4.24	229	0.00	13.71	6.56	0.561	0.939	83.90	4.510	43.19	62.84	44.6	0.572
2/3/2025 8:00	18.2	8.65	286	4.29	229	0.00	13.78	5.07	0.561	0.939	2.18	4.510	0.00	46.09	44.6	0.418
2/3/2025 9:00	18.9	8.53	277	4.32	229	0.00	13.71	5.19	0.561	0.939	6.82	4.510	0.00	26.00	44.6	0.232
2/3/2025 10:00	19.9	8.50	278	4.32	229	0.00	13.70	5.45	0.561	0.939	20.85	4.510	0.00	6.43	44.6	0.058
2/3/2025 11:00	19.2	8.80	297	4.11	229	0.00	13.77	5.44	0.561	0.939	32.22	4.510	0.00	1.66	44.6	0.015
2/3/2025 12:00	17.2	8.69	295	4.05	229	0.00	13.76	4.82	0.561	0.939	3.68	4.510	0.00	1.97	44.6	0.018
2/3/2025 13:00	16.3	9.16	309	4.29	229	0.01	10.39	4.80	0.561	0.939	-12.19	4.510	0.00	2.41	44.6	0.021
2/3/2025 14:00	20.4	8.19	261	4.46	230	0.00	10.17	5.37	0.561	0.939	8.04	4.510	0.00	1.98	44.6	0.017
2/3/2025 15:00	14.3	8.90	285	4.39	228	0.00	10.18	4.09	0.561	0.939	-56.33	4.510	0.00	1.17	44.5	0.010
2/3/2025 16:00	18.6	8.58	275	4.80	229	0.00	10.15	5.13	0.561	0.939	-26.36	4.510	0.00	0.28	44.5	0.002
2/3/2025 17:00	22.0	8.92	298	5.01	229	0.00	10.17	6.32	0.561	0.939	23.17	4.510	0.00	2.23	44.5	0.020
2/3/2025 18:00	19.2	8.83	280	4.84	216	0.00	10.35	5.46	0.561	0.939	-11.59	4.510	0.00	3.70	44.5	0.032
2/3/2025 19:00	25.8	9.21	352	4.77	215	0.00	10.31	7.66	0.561	0.939	98.67	4.510	57.97	9.80	44.5	0.090
2/3/2025 20:00	23.4	8.99	334	4.62	216	0.00	9.68	6.78	0.561	0.939	66.84	4.510	26.14	15.53	44.5	0.139
2/3/2025 21:00	26.2	9.17	325	4.90	215	0.00	10.20	7.74	0.561	0.939	100.22	4.510	59.51	26.39	44.5	0.239
2/3/2025 22:00	27.5	8.38	282	4.96	216	0.00	9.90	7.43	0.561	0.939	88.40	4.510	47.70	32.78	44.5	0.294
2/3/2025 23:00	27.2	8.67	301	5.11	215	0.00	10.26	7.58	0.561	0.939	83.97	0.110	0.11	42.93	44.5	0.386
2/4/2025 0:00	26.8	8.32	265	5.12	216	0.00	9.97	7.19	0.561	0.939	67.29	0.110	0.00	32.17	44.5	0.289
2/4/2025 1:00	27.8	8.93	297	5.06	216	0.00	10.10	8.00	0.561	0.939	110.11	0.110	26.25	28.09	44.5	0.252
2/4/2025 2:00	32.7	8.76	299	5.43	215	0.01	9.73	9.24	0.561	0.939	151.77	0.110	67.90	15.05	44.5	0.135
2/4/2025 3:00	31.3	8.74	284	5.63	215	0.00	10.29	8.82	0.561	0.939	121.28	0.110	37.42	21.20	44.5	0.191
2/4/2025 4:00	32.3	8.59	285	5.72	216	0.00	9.84	8.95	0.561	0.939	121.46	0.110	37.60	18.69	44.5	0.167
2/4/2025 5:00	32.7	8.73	284	5.73	215	0.00	10.25	9.19	0.561	0.939	134.73	0.110	50.87	20.76	44.5	0.187
2/4/2025 6:00	30.2	8.47	272	5.70	215	0.00	9.77	8.23	0.561	0.939	86.07	0.110	2.20	21.00	44.5	0.188
2/4/2025 7:00	31.2	8.62	284	5.66	216	0.00	10.98	8.67	0.561	0.939	110.89	0.110	27.03	23.05	44.5	0.207
2/4/2025 8:00	25.6	8.47	267	5.77	215	0.00	11.29	6.98	0.561	0.939	12.92	0.110	0.00	19.30	44.5	0.172
2/4/2025 9:00	22.6	8.98	307	5.76	215	0.00	11.11	6.52	0.561	0.939	-12.08	0.110	0.00	11.37	44.5	0.101
2/4/2025 10:00	24.6	8.82	283	5.75	216	0.00	11.19	6.98	0.561	0.939	12.64	0.110	0.00	3.12	44.5	0.028
2/4/2025 11:00	22.5	8.83	294	5.75	216	0.00	12.86	6.38	0.561	0.939	-19.26	0.110	0.00	0.00	44.5	0.000
2/4/2025 12:00	23.1	8.56	264	5.78	216	0.00	12.86	6.38	0.561	0.939	-22.23	0.110	0.00	0.00	44.5	0.000
2/4/2025 13:00	20.7	8.40	247	5.82	215	0.00	12.88	5.61	0.561	0.939	-71.67	0.110	0.00	0.00	44.4	0.000
2/4/2025 14:00	24.1	8.67	277	5.83	215	0.00	12.78	6.74	0.561	0.939	-5.11	0.110	0.00	0.00	44.4	0.000
2/4/2025 15:00	24.5	8.62	267	5.82	215	0.00	12.87	6.79	0.561	0.939	-1.83	0.110	0.00	0.00	44.4	0.000
2/4/2025 16:00	23.7	8.56	263	5.77	215	0.00	12.89	6.55	0.561	0.939	-12.79	0.110	0.00	0.00	44.4	0.000
2/4/2025 17:00	20.0	8.74	280	5.76	216	0.00	12.83	5.62	0.561	0.939	-62.33	0.110	0.00	0.00	44.4	0.000
2/4/2025 18:00	22.3	8.80	284	5.81	215	0.00	12.81	6.33	0.561	0.939	-26.42	0.110	0.00	0.00	44.4	0.000
2/4/2025 19:00	24.4	8.80	293	5.79	215	0.00	12.80	6.91	0.561	0.939	6.10	0.110	0.00	0.08	44.4	0.001
2/4/2025 20:00	26.1	8.62	285	5.80	216	0.00	12.85	7.23	0.561	0.939	24.14	0.110	0.00	0.10	44.4	0.001
2/4/2025 21:00	26.4	8.75	284	5.73	215	0.00	12.85	7.44	0.561	0.939	40.15	0.110	0.00	0.15	44.4	0.001
2/4/2025 22:00	28.5	8.77	283	5.84	215	0.00	12.83	8.04	0.561	0.939	65.47	0.110	0.00	0.14	44.4	0.001
2/4/2025 23:00	25.7	8.72	290	5.82	215	0.00	12.76	7.22	0.561	0.939	21.31	0.110	0.00	0.33	44.4	0.003
2/5/2025 0:00	26.0	8.60	286	5.81	216	0.00	12.95	7.21	0.561	0.939	21.81	0.110	0.00	0.31	44.4	0.003
2/5/2025 1:00	26.8	8.73	282	5.85	215	0.00	12.86	7.53	0.561	0.939	36.64	0.110	0.00	0.44	44.3	0.004
2/5/2025 2:00	26.7	8.89	292	5.81	215	0.00	12.88	7.65	0.561	0.939	45.06	0.110	0.00	0.32	44.3	0.003
2/5/2025 3:00	28.1	8.51	266	5.74	215	0.01	12.87	7.71	0.561	0.939	55.27	0.110	0.00	0.35	44.3	0.003
2/5/2025 4:00	25.7	8.66	288	5.72	216	0.00	12.85	7.17	0.561	0.939	25.08	0.110	0.00	0.15	44.3	0.001
2/5/2025 5:00	26.7	8.82	298	5.72	215	0.00	12.78	7.58	0.561	0.939	46.76	0.110	0.00	0.09	44.3	0.001
2/5/2025 6:00	24.7	8.96	307	5.67	215	0.00	12.76	7.12	0.561	0.939	25.13	0.110	0.00	0.03	44.3	0.000
2/5/2025 7:00	25.0	8.43	265	5.66	215	0.00	12.77	6.80	0.561	0.939	9.32	0.110	0.00	0.08	44.3	0.001
2/5/2025 8:00	23.4	8.72	287	5.59	215	0.00	12.86	6.58	0.561	0.939	1.10	0.110	0.00	0.04	44.3	0.000
2/5/2025 9:00	21.0	8.65	273	5.63	215	0.00	12.89	5.85	0.561	0.939	-41.84	0.110	0.00	0.04	44.3	0.000
2/5/2025 10:00	19.3	8.53	275	5.64	211	0.00	12.84	5.31	0.561	0.939	-73.12	0.110	0.00	0.00	44.3	0.000
2/5/2025 11:00	17.0	8.21	274	3.52	215	0.00	12.80	4.48	0.561	0.939	20.02	0.110	0.00	0.19	44.3	0.002
2/5/2025 12:00	2.4	8.64	332	-0.02	216	0.00	12.83	0.67	0.561	0.939	33.13	0.110	0.00	3.37	44.2	0.031
2/5/2025 13:00	13.3	8.73	287	3.87	216	0.00	12.84	3.74	0.561	0.939	-43.52	0.110	0.00	3.37	44.2	0.030
2/5/2025 14:00	2.8	8.62	325	-0.02	216	0.00	12.91	0.79	0.561	0.939	39.40	0.110	0.00	5.53	44.2	0.050
2/5/2025 15:00	1.8	8.51	320	-0.02	215	0.00	12.83	0.49	0.561	0.939	24.97	0.110	0.00	2.36	44.2	0.021
2/5/2025 16:00	3.0	8.58	330	-0.02	215	0.00	12.84	0.82	0.561	0.939	41.00	0.110	0.00	2.36	44.2	0.021
2/5/2025 17:00	9.6	8.55	314	2.43	215	0.00	12.92	2.65	0.561	0.939	-10.25	0.110	0.00	0.00	44.2	0.000
2/5/2025 18:00	5.4	9.07	340	2.13	216	0.00	10.96	1.57	0.561	0.939	-45.32	0.110	0.00	0.44	44.2	0.004
2/5/2025 19:00	19.4	8.80	308	3.38	215	0.00	10.63	5.50	0.561	0.939	79.89	0.110	0.00	0.80	44.2	0.007
2/5/2025 20:00	20.4	8.81	315	3.59	215	0.00	11.31	5.78	0.561	0.939	80.70	0.110	0.00	1.86	44.2	0.017
2/5/2025 21:00	14.6	8.47	289	3.39	216	0.00	11.34	3.99	0.561	0.939	0.57	0.110	0.00	1.62	44.2	0.015
2/5/2025 22:00	22.5	9.04	326	3.70	215	0.01	11.24	6.55	0.561	0.939	111.19	0.110	27.33	2.42	44.2	0.022
2/5/2025 23:00	16.8	8.85	299	3.85	215	0.00	10.69	4.78	0.561	0.939	13.64	0.200	0.20	2.54	44.2	0.023
2/6/2025 0:00	19.5	9.11	330	3.91	215	0.00	11.12	5.73	0.561	0.939	56.85	0.200	43.41	23.37	44.2	0.213
2/6/2025 1:00	23.0	9.19	335	3.85	216	0.01	10.66	6.81	0.561	0.939	113.07	0.200	99.63	42.19	44.2	0.384
2/6/2025 2:00	20.7	9.08	341	3.82	216	0.00	10.04	6.05	0.561	0.939	76.29	0.200	62.85	58.66	44.2	0.536
2/6/2025 3:00	20.7	9.01	323	3.93	216	0.00	10.18	6.01	0.561	0.939	70.30	0.200	56.86	57.82	44.2	0.527
2/6/2025 4:00	21.9	8.74	323	3.88	215	0.00	9.82	6.17	0.561	0.939	81.65	0.200	68.21	60.82	44.2	0.550
2/6/2025 5:00	21.8	8.54	300	3.86	215	0.00	10.15	6.00	0.561	0.939	77.54	0.200	64.10	68.27	44.2	0.617
2/6/2025 6:00	22.2	8.69	312	3.87	216	0.01	10.36	6.22	0.561	0.939	86.15	0.200	72.71	76.63	44.2	0.691
2/6/2025 7:00	20.5	8.84	317	4.15	215	0.00	10.33	5.85	0.561	0.939	49.95	0.200	36.51	77.05	44.2	0.694
2/6/2025 8:00	18.1	8.87	324	4.11	215	0.00	10.03	5.18	0.561	0.939	17.91	0.200	4.47	56.89	44.2	0.508
2/6/2025 9:00	19.2	8.76	313	4.13	215	0.00	10.16	5.40	0.561	0.939	28.69	0.200	15.25	29.10	44.2	0.260
2/6/2025 10:00	20.2	8.55	297	4.12	216	0.00	10.02	5.57	0.561	0.939	39.02	0.200	25.58	6.94	44.2	0.062
2/6/2025 11:00	16.0	8.51	295	4.11	216	0.00	9.89	4.39	0.561	0.939	-22.86	0.200	0.00	2.71	44.2	0.024
2/6/2025 12:00	13.7	8.76	310	4.28	215	0.00	10.38	3.85	0.561	0.939	-60.21	0.200	0.00	2.26	44.2	0.020
2/6/2025 13:00	21.6	8.53	302	4.28	216	0.00	10.11	5.94	0.561	0.939	48.68	0.200	35.24	18.11	44.2	0.163
2/6/2025 14:00	20.2	8.76	314	4.22	215	0.00	9.88	5.70	0.561	0.939	38.79	0.200	25.35	23.79	44.2	0.214
2/6/2025 15:00	18.8	9.08	335	4.14	215	0.00	9.84	5.50	0.561	0.939	31.60	0.200	18.16	31.52	44.1	0.284
2/6/2025 16:00	18.8	8.87	331	4.14	216	0.00	9.78	5.38	0.561	0.939	25.81	0.200	12.37	19.90	44.1	0.179
2/6/2025 17:00	24.8	8.75	317	4.13	215	0.00	9.94	6.98	0.561	0.939	108.95	0.200	95.51	26.45	44.2	0.238
2/6/2025 18:00	20.6	8.63	315	4.18	215	0.00	10.39	5.71	0.561	0.939	41.35	0.200	27.91	36.34	44.1	0.329
2/6/2025 19:00	25.5	8.66	304	4.12	216	0.00	10.15	7.11	0.561	0.939	119.17	0.200	105.73	58.12	44.2	0.526
2/6/2025 20:00	21.3	8.76	318	4.17	215	0.00	10.11	6.01	0.561	0.939	57.05	0.200	43.61	66.42	44.2	0.600
2/6/2025 21:00	20.6	8.73	319	4.23	215	0.00	10.04	5.79	0.561	0.939	42.01	0.200	28.58	67.38	44.2	0.608
2/6/2025 22:00	20.6	8.83	327	4.17	215	0.00	10.19	5.86	0.561	0.939	48.42	0.200	34.98	59.27	44.2	0.535
2/6/2025 23:00	19.2	9.26	337	4.23	215	0.00	9.92	5.72	0.561	0.939	37.29	0.750	0.75	51.50	44.1	0.463
2/7/2025 0:00	19.2	9.24	330	4.23	215	0.00	10.39	5.70	0.561	0.939	36.81	0.750	0.27	39.55	44.1	0.359

Fuel Gas H2S Estimation

**H2S concentration in Fuel Gas is estimated using the best available data and operating information for heat and material balances, supported by the lab analysis of manual sampling.*

**For Hydrobon/Platformer fired heaters, the SO2 emissions are estimated using the measured average fuel gas flow rate and the estimated H2S concentration in the Fuel Gas.*

Date and Time	North Stack SO2	North Stack Flow	Boiler 9 Fuel Gas	Boiler 9 Fuel Oil	Boiler 13 Fuel Gas	Boiler 13 Fuel Oil	LPG Vapourization Rate	Total Boilers Sulphur Emission	LRF Sulphur Content	LRF Density	Raw Estimated Fuel Gas H2S Concentration	Lab Result Fuel Gas H2S Concentration	Corrected Estimated Fuel Gas H2S Concentration	3hr Rolling Average H2S Concentration	365 Day Rolling Average H2S Concentration	Heater SO2 Emissions
	ppmv	MMSCFH	MSCFH	GPM	MSCFH	GPM	MSCFH	kg/hr	%	kg/L	ppmv	ppmv	ppmv	ppmv	ppmv	kg/hr
2/7/2025 1:00	20.2	9.08	316	4.26	216	0.00	10.17	5.90	0.561	0.939	45.93	0.750	9.39	24.77	44.1	0.225
2/7/2025 2:00	19.8	9.31	350	4.27	215	0.00	10.22	5.94	0.561	0.939	44.71	0.750	8.17	17.97	44.1	0.162
2/7/2025 3:00	24.7	9.24	342	4.28	216	0.00	9.73	7.33	0.561	0.939	112.41	0.750	75.87	19.65	44.1	0.179
2/7/2025 4:00	20.4	9.09	328	4.27	216	0.00	10.02	5.97	0.561	0.939	48.35	0.750	11.81	27.72	44.1	0.251
2/7/2025 5:00	20.7	9.05	328	4.30	215	0.00	10.23	6.04	0.561	0.939	50.41	0.750	13.87	33.98	44.1	0.310
2/7/2025 6:00	22.5	9.00	337	4.31	216	0.00	10.44	6.51	0.561	0.939	71.84	0.750	35.30	37.87	44.1	0.347
2/7/2025 7:00	22.8	9.06	326	4.29	215	0.00	9.95	6.64	0.561	0.939	80.78	0.750	44.24	45.92	44.1	0.421
2/7/2025 8:00	18.9	9.18	354	4.34	216	0.00	11.16	5.57	0.561	0.939	23.28	0.750	0.00	37.34	44.1	0.343
2/7/2025 9:00	18.8	9.10	333	4.35	215	0.00	10.70	5.51	0.561	0.939	20.37	0.750	0.00	24.82	44.1	0.225
2/7/2025 10:00	16.0	8.90	315	4.36	216	0.00	10.66	4.59	0.561	0.939	-26.84	0.750	0.00	4.35	44.1	0.040
2/7/2025 11:00	17.7	9.00	333	4.41	216	0.00	11.27	5.14	0.561	0.939	-1.53	0.750	0.00	0.03	44.1	0.000
2/7/2025 12:00	17.4	9.07	334	4.43	216	0.00	10.69	5.09	0.561	0.939	-5.39	0.750	0.00	0.03	44.1	0.000
2/7/2025 13:00	14.7	9.14	327	4.49	216	0.00	10.96	4.32	0.561	0.939	-47.13	0.750	0.00	0.03	44.1	0.000
2/7/2025 14:00	20.2	8.82	309	4.49	216	0.00	11.20	5.73	0.561	0.939	24.06	0.750	0.00	0.06	44.1	0.001
2/7/2025 15:00	17.2	8.64	300	4.48	216	0.00	11.30	4.78	0.561	0.939	-24.84	0.750	0.00	0.46	44.1	0.004
2/7/2025 16:00	17.7	8.84	313	4.51	215	0.00	10.63	5.05	0.561	0.939	-12.58	0.750	0.00	0.65	44.0	0.006
2/7/2025 17:00	15.3	9.03	328	4.51	215	0.00	11.07	4.46	0.561	0.939	-41.83	0.750	0.00	0.90	44.0	0.008
2/7/2025 18:00	19.1	8.88	320	4.52	215	0.00	11.31	5.46	0.561	0.939	8.13	0.750	0.00	0.57	44.0	0.005
2/7/2025 19:00	17.7	9.07	333	4.54	215	0.00	11.31	5.17	0.561	0.939	-7.52	0.750	0.00	0.56	44.0	0.005
2/7/2025 20:00	19.4	9.00	345	4.56	216	0.00	10.93	5.62	0.561	0.939	13.83	0.750	0.00	0.55	44.0	0.005
2/7/2025 21:00	21.5	8.64	303	4.40	220	0.00	10.89	5.99	0.561	0.939	43.13	0.750	6.59	0.99	44.0	0.009
2/7/2025 22:00	17.7	8.93	321	4.62	220	0.00	10.95	5.09	0.561	0.939	-16.23	0.750	0.00	0.95	44.0	0.009
2/7/2025 23:00	18.1	8.77	309	4.53	221	0.00	11.35	5.10	0.561	0.939	-10.29	0.750	0.00	0.93	44.0	0.009
2/8/2025 0:00	18.4	8.76	308	4.54	220	0.01	10.99	5.18	0.561	0.939	-7.22	0.750	0.00	0.56	44.0	0.005
2/8/2025 1:00	21.1	8.79	301	4.56	220	0.00	11.03	5.98	0.561	0.939	33.11	0.750	0.00	0.51	44.0	0.005
2/8/2025 2:00	16.3	9.04	320	4.56	219	0.00	11.31	4.76	0.561	0.939	-29.51	0.750	0.00	0.42	44.0	0.004
2/8/2025 3:00	18.0	8.85	318	4.54	220	0.00	11.13	5.14	0.561	0.939	-9.63	0.750	0.00	0.50	44.0	0.005
2/8/2025 4:00	18.1	8.89	306	4.57	219	0.00	10.70	5.17	0.561	0.939	-10.12	0.750	0.00	0.49	43.9	0.004
2/8/2025 5:00	17.7	8.71	289	4.63	220	0.00	10.86	4.96	0.561	0.939	-24.93	0.750	0.00	0.29	43.9	0.003
2/8/2025 6:00	19.8	8.50	277	4.64	221	0.00	12.89	5.41	0.561	0.939	-1.87	0.750	0.00	0.06	43.9	0.001
2/8/2025 7:00	20.1	8.78	285	4.64	220	0.00	12.84	5.69	0.561	0.939	13.61	0.750	0.00	0.21	43.9	0.002
2/8/2025 8:00	16.7	8.74	284	4.62	220	0.00	12.82	4.70	0.561	0.939	-38.91	0.750	0.00	0.21	43.9	0.002
2/8/2025 9:00	16.7	8.52	274	4.61	220	0.00	12.79	4.59	0.561	0.939	-45.08	0.750	0.00	0.21	43.9	0.002
2/8/2025 10:00	16.7	8.67	280	4.61	220	0.00	12.82	4.67	0.561	0.939	-40.16	0.750	0.00	0.00	43.9	0.000
2/8/2025 11:00	18.1	8.53	271	4.61	220	0.00	14.64	4.97	0.561	0.939	-24.16	0.750	0.00	0.00	43.9	0.000
2/8/2025 12:00	16.7	8.35	276	4.62	220	0.00	14.70	4.50	0.561	0.939	-50.60	0.750	0.00	0.00	43.9	0.000
2/8/2025 13:00	16.8	8.63	279	4.60	220	0.00	14.68	4.66	0.561	0.939	-40.56	0.750	0.00	0.14	43.9	0.001
2/8/2025 14:00	16.8	8.70	290	4.61	220	0.00	13.73	4.70	0.561	0.939	-37.44	0.750	0.00	0.14	43.9	0.001
2/8/2025 15:00	14.4	8.58	281	4.63	220	0.00	13.74	3.98	0.561	0.939	-79.41	0.750	0.00	0.14	43.9	0.001
2/8/2025 16:00	15.5	8.81	297	4.64	220	0.00	12.90	4.39	0.561	0.939	-55.95	0.750	0.00	0.00	43.8	0.000
2/8/2025 17:00	16.2	8.80	302	4.78	220	0.00	10.98	4.58	0.561	0.939	-53.14	0.750	0.00	0.00	43.8	0.000
2/8/2025 18:00	20.0	9.06	321	4.78	219	0.00	10.76	5.83	0.561	0.939	11.44	0.750	0.00	0.00	43.8	0.000
2/8/2025 19:00	19.0	9.10	321	4.80	220	0.00	11.20	5.56	0.561	0.939	-3.46	0.750	0.00	0.01	43.8	0.000
2/8/2025 20:00	19.4	9.23	317	4.77	220	0.00	11.01	5.75	0.561	0.939	8.58	0.750	0.00	0.08	43.8	0.001
2/8/2025 21:00	18.7	9.40	334	4.75	220	0.00	10.97	5.66	0.561	0.939	4.23	0.750	0.00	0.26	43.8	0.002
2/8/2025 22:00	20.8	9.12	321	4.81	220	0.00	11.28	6.10	0.561	0.939	22.89	0.750	0.00	0.99	43.8	0.009
2/8/2025 23:00	19.0	9.00	317	4.86	220	0.00	11.18	5.52	0.561	0.939	-9.19	0.750	0.00	0.93	43.8	0.008
2/9/2025 0:00	24.9	8.65	292	4.91	220	0.00	11.34	6.94	0.561	0.939	63.13	0.750	26.59	6.34	43.8	0.058
2/9/2025 1:00	25.2	8.62	296	4.82	221	0.00	10.58	6.99	0.561	0.939	70.21	0.750	33.67	30.46	43.8	0.280
2/9/2025 2:00	28.1	8.91	301	4.81	220	0.00	11.19	8.07	0.561	0.939	127.14	0.750	90.60	57.20	43.8	0.513
2/9/2025 3:00	26.6	9.08	311	4.77	220	0.00	11.17	7.76	0.561	0.939	111.14	0.750	74.60	76.65	43.8	0.692
2/9/2025 4:00	25.2	8.97	306	4.74	220	0.00	10.99	7.28	0.561	0.939	89.27	0.750	52.73	72.99	43.8	0.655
2/9/2025 5:00	24.5	8.97	305	4.72	220	0.00	12.79	7.07	0.561	0.939	79.99	0.750	43.45	64.82	43.8	0.580
2/9/2025 6:00	24.1	9.16	307	4.71	224	0.00	12.87	7.11	0.561	0.939	81.69	0.750	45.15	56.04	43.8	0.504
2/9/2025 7:00	23.4	8.72	284	4.71	225	0.00	12.78	6.58	0.561	0.939	56.92	0.750	20.38	60.76	43.8	0.544
2/9/2025 8:00	18.2	8.74	285	4.70	224	0.00	12.86	5.13	0.561	0.939	-20.50	0.750	0.00	43.54	43.8	0.392
2/9/2025 9:00	13.8	8.68	280	4.77	225	0.00	12.80	3.84	0.561	0.939	-94.77	0.750	0.00	27.28	43.8	0.246
2/9/2025 10:00	17.9	8.88	294	4.73	225	0.00	12.87	5.12	0.561	0.939	-22.18	0.750	0.00	1.35	43.8	0.012
2/9/2025 11:00	14.4	8.49	266	4.76	224	0.00	12.10	3.94	0.561	0.939	-90.77	0.750	0.00	0.00	43.8	0.000
2/9/2025 12:00	13.4	8.92	301	4.74	225	0.00	12.61	3.85	0.561	0.939	-88.60	0.750	0.00	0.00	43.8	0.000
2/9/2025 13:00	16.5	8.88	290	4.76	225	0.00	12.87	4.72	0.561	0.939	-45.78	0.750	0.00	0.01	43.7	0.000
2/9/2025 14:00	18.6	8.94	310	4.75	225	0.00	12.78	5.35	0.561	0.939	-10.93	0.750	0.00	0.01	43.7	0.000
2/9/2025 15:00	16.1	9.13	325	4.77	225	0.00	12.80	4.75	0.561	0.939	-42.20	0.750	0.00	0.01	43.7	0.000
2/9/2025 16:00	18.6	9.02	315	4.75	225	0.00	12.83	5.39	0.561	0.939	-9.04	0.750	0.00	0.00	43.7	0.000
2/9/2025 17:00	17.9	8.95	294	4.76	225	0.00	12.84	5.15	0.561	0.939	-22.67	0.750	0.00	0.07	43.7	0.001
2/9/2025 18:00	17.5	8.92	294	4.74	224	0.00	12.80	5.02	0.561	0.939	-28.30	0.750	0.00	0.07	43.7	0.001
2/9/2025 19:00	16.1	9.04	300	4.68	224	0.00	12.86	4.69	0.561	0.939	-41.65	0.750	0.00	0.07	43.7	0.001
2/9/2025 20:00	17.1	9.10	301	4.69	225	0.00	12.93	5.02	0.561	0.939	-25.16	0.750	0.00	0.00	43.7	0.000
2/9/2025 21:00	17.1	9.17	309	4.71	225	0.00	12.85	5.05	0.561	0.939	-23.83	0.750	0.00	0.00	43.7	0.000
2/9/2025 22:00	16.1	9.48	319	4.71	224	0.00	12.79	4.90	0.561	0.939	-30.99	0.750	0.00	0.11	43.7	0.001
2/9/2025 23:00	18.1	9.27	313	4.68	224	0.00	12.81	5.40	0.561	0.939	-4.07	0.750	0.00	0.11	43.7	0.001
2/10/2025 0:00	18.8	9.16	312	4.75	225	0.00	12.85	5.55	0.561	0.939	-0.88	0.750	0.00	0.11	43.7	0.001
2/10/2025 1:00	16.4	8.80	291	4.75	225	0.00	12.79	4.64	0.561	0.939	-49.10	0.750	0.00	0.00	43.6	0.000
2/10/2025 2:00	16.4	8.46	268	4.74	224	0.00	12.82	4.47	0.561	0.939	-60.66	0.750	0.00	0.00	43.6	0.000
2/10/2025 3:00	19.8	8.64	277	4.74	225	0.01	12.80	5.52	0.561	0.939	-2.33	0.750	0.00	0.00	43.6	0.000
2/10/2025 4:00	19.5	8.69	277	4.74	225	0.00	12.76	5.45	0.561	0.939	-5.90	0.750	0.00	0.00	43.6	0.000
2/10/2025 5:00	21.2	8.60	273	4.74	225	0.00	12.76	5.87	0.561	0.939	17.53	0.750	0.00	0.00	43.6	0.000
2/10/2025 6:00	18.4	8.57	265	4.76	224	0.00	12.83	5.08	0.561	0.939	-27.70	0.750	0.00	0.00	43.6	0.000
2/10/2025 7:00	17.4	8.79	288	4.76	225	0.00	12.79	4.93	0.561	0.939	-34.67	0.750	0.00	0.00	43.6	0.000
2/10/2025 8:00	21.3	8.79	286	4.72	224	0.00	13.76	6.02	0.561	0.939	26.35	0.750	0.00	0.04	43.6	0.000
2/10/2025 9:00	15.1	8.71	272	4.68	225	0.00	13.80	4.23	0.561	0.939	-68.59	0.750	0.00	0.04	43.6	0.000
2/10/2025 10:00	18.9	8.42	262	4.62	225	0.00	16.66	5.11	0.561	0.939	-17.18	0.750	0.00	0.04	43.6	0.000
2/10/2025 11:00	18.8	8.56	270	4.61	225	0.00	12.93	5.19	0.561	0.939	-11.69	0.750	0.00	0.00	43.6	0.000
2/10/2025 12:00	16.5	8.55	268	4.64	225	0.00	12.87	4.53	0.561	0.939	-50.09	0.750	0.00	0.00	43.6	0.000
2/10/2025 13:00	18.9	8.84	284	4.62	224	0.00	12.90	5.37	0.561	0.939	-2.73	0.750	0.00	0.00	43.6	0.000
2/10/2025 14:00	17.5	8.52	274	4.58	225	0.00	13.04	4.80	0.561	0.939	-31.22	0.750	0.00	0.10	43.5	0.001
2/10/2025 15:00	17.2	8.62	266	4.59	225	0.00	12.77	4.76	0.561	0.939	-34.44	0.750	0.00	0.55	43.5	0.005
2/10/2025 16:00	20.9	8.77	286	4.57	225	0.00	12.84	5.92	0.561	0.939	30.23	0.750	0.00	4.77	43.5	0.043
2/10/2025 17:00	23.7	8.78	281	4.58	225	0.00	12.87	6.71	0.561	0.939	72.34	0.750	35.80	6.42	43.5	0.057
2/10/2025 18:00	18.9	8.87	291	4.57	225	0.00	12.93	5.39	0.561	0.939	1.84	0.750	0.00	7.78	43.5	0.070
2/10/2025 19:00	39.8	8.72	280	4.55	225	0.00	12.87	11.18	0.561	0.939	316.38	0.750	279.84	23.74	43.6	0.213
2/10/2025 20:00	24.1	9.16	309	4.54	224	0.01	12.86	7.10	0.561	0.939	91.01	0.750	54.47	83.47	43.6	0.754
2/10/2025 21:00	24.7	8.89	282	4.60	225	0.00	12.78	7.08	0.561	0.939	90.47	0.750	53.93	92.36	43.6	0.834
2/10/2025 22:00	20.6	8.99	306	4.59	224	0.00	12.82	5.97	0.561	0.939	30.27	0.750	0.00	79.19	43.6	0.722
2/10/2025 23:00	21.0	9.15	313	4.59	225	0.00	12.91	6.18	0.561	0.939	40.82	0.790	0.79	23.85	43.6	0.218
2/11/2025 0:00	19.6	8.99	302	4.60	225	0.00	12.91	5.67	0.561	0.939	14.09	0.790	0.00	16.03	43.5	0.147
2/11/2025 1:00	20.6	8.64	282	4.61	224	0.00	12.79	5.75	0.561	0.939	18.39	0.790	0.00	11.93	43.5	0.109
2/11/2025 2:00	24.4	8.83	283	4.64	224	0.00	13.73	6.95	0.561	0.939	81.44	0.790	41.41	8.54	43.5	0.078
2/11/2025 3:00	22.4	8.63	280	4.67	225	0.00	13.72	6.22	0.561	0.939	40.55	0.790	0.52	7.26	43.5	0.066
2/11/2025 4:00	22.0	8.61	273	4.65	224	0.00	13.65	6.11	0.561	0.939	36.12	0.790	0.00	5.39	43.5	0.048
2/11/2025 5:00	20.0	8.77	291	4.64	225	0.00	13.80	5.65	0.561	0.939	10.85	0.790	0.00	3.79	43.5	0.034
2/11/2025 6:00	19.6	8.58	276	4.63	224	0.00	13.66	5.42	0.561	0.939	-0.44	0.790	0.00	2.93	43.5	0.027
2/11/2025 7:00	20.0	8.93	293	4.72	224	0.00	13.73	5.75	0.561	0.939	10.98	0.790	0.00	3.20	43.5	0.029
2/11/2025 8:00	19.3	9.24	315	4.78	224	0.00	13.74	5.73	0.561	0.939	6.45	0.790	0.00	2.30	43.5	0.021
2/11/2025 9:00	20.3	9.04	300	4.73	224	0.00	13.81	5.91	0.561	0.939	19.12	0.790	0.00	2.10	43.5	0.019
2/11/2025 10:00	18.9	8.73	282	4.70	225	0.00	13.71	5.31	0.561	0.939	-10.51	0.790	0.00	1.19	43.5	0.011
2/11/2025 11:00	16.9	8.59	279	4.39	224	0.00	13.76	4.67	0.561	0.939	-26.06	0.790	0.00	0.99	43.5	0.009
2/11/2025 12:00	19.0	8.37	268	4.39	225	0.00	13.83	5.11	0.561	0.939	-2.04	0.790	0.00	0.48	43.5	0.004
2/11/2025 13:00	17.3	8.38	269	4.35	225	0.00	13.86	4.65	0.561	0.939	-25.13	0.790	0.00	0.07	43.4	0.001
2/11/2025 14:00	16.6	8.54	267	4.35	224	0.00	13.74	4.56	0.561	0.939	-30.60	0.790	0.00	0.12	43.4	0.001
2/11/2025 15:00	15.9	8.32	261	4.35	225	0.00	13.71	4.26	0.561	0.939	-47.55	0.790	0.00	0.18	43.4	0.002
2/11/2025 16:00	15.9	8.41	273	4.29	225	0.00	13.73	4.30	0.561	0.939	-40.23	0.790	0.00	0.18	43.4	0.002
2/11/2025 17:00	14.5	8.64	282	4.30	224	0.00	13.61	4.04	0.561	0.939	-54.57	0.790	0.00	0.06	43.4	0.001
2/11/2025 18:00	18.0	9.16	320	4.29	224	0.00	13.78	5.29	0.561	0.939	13.26	0.790	0.00	0.06	43.4	0.001
2/11/2025 19:00	18.6	8.90	304	4.21	225	0.00	10.67	5.33	0.561	0.939	20.33	0.790	0.00	1.50	43.4	0.014
2/11/2025 20:00	21.7	9.11	314	4.21	224	0.00	10.63	6.36	0.561	0.939	72.39	0.790	32.36	2.75	43.4	0.025
2/11/2025 21:00	18.3	9.30	316	4.22	229	0.00	11.12	5.47	0.561	0.939	25.78	0.790	0.00	13.00	43.4	0.116
2/11/2025 22:00	20.7	8.85	311	4.15	230	0.00	10.71	5.90	0.561	0.939	52.07	0.790	12.04	22.59	43.4	0.210
2/11/2025 23:00	18.6	8.98	321	4.17	229	0.00	10.70	5.39	0.561	0.939	24.36	0.790	0.00	30.60	43.4	0.286
2/12/2025 0:00	19.0	9.03	328	4.19	230	0.00	12.15	5.51	0.561	0.939	29.11	0.790	0.00	27.53	43.4	0.258
2/12/2025 1:00	25.5	9.17	332	4.23	229	0.00	11.46	7.54	0.561	0.939	125.30	0.790	85.26	40.87	43.4	0.379
2/12/2025 2:00	24.1	8.88	306	4.26	229	0.00	11.92	6.90	0.561	0.939	97.58	0.790	57.55	61.11	43.4	0.567
2/12/2025 3:00	27.7	8.82	310	4.21	229	0.00	12.13	7.85	0.561	0.939	147.58	0.790	107.54	81.76	43.4	0.757
2/12/2025 4:00	28.3	8.51	291	4.23	229	0.00	12.02	7.76	0.561	0.939	146.61	0.790	106.58	86.59	43.4	0.819
2/12/2025 5:00	25.5	8.81	304	4.18	230	0.01	11.97	7.24	0.561	0.939	118.94	0.790	78.90	82.11	43.4	0.762
2/12/2025 6:00	28.0	8.94	296	4.20	229	0.00	11.91	8.06	0.561	0.939	162.42	0.790	122.38	87.58	43.4	0.800
2/12/2025 7:00	21.3	9.22	320	4.14	229	0.00	11.93	6.34	0.561	0.939	73.80	0.790	33.77	85.64	43.4	0.770

Fuel Gas H2S Estimation

H2S concentration in Fuel Gas is estimated using the best available data and operating information for heat and material balances, supported by the lab analysis of manual sampling.

For Hydrobon/Platformer fired heaters, the SO2 emissions are estimated using the measured average fuel gas flow rate and the estimated H2S concentration in the Fuel Gas.

Date and Time	North Stack SO2	North Stack Flow	Boiler 9 Fuel Gas	Boiler 9 Fuel Oil	Boiler 13 Fuel Gas	Boiler 13 Fuel Oil	LPG Vapourization Rate	Total Boilers Sulphur Emission	LRF Sulphur Content	LRF Density	Raw Estimated Fuel Gas H2S Concentration	Lab Result Fuel Gas H2S Concentration	Corrected Estimated Fuel Gas H2S Concentration	3hr Rolling Average H2S Concentration	365 Day Rolling Average H2S Concentration	Heater SO2 Emissions
	ppmv	MMSCFH	MSCFH	GPM	MSCFH	GPM	MSCFH	kg/hr	%	kg/L	ppmv	ppmv	ppmv	ppmv	ppmv	kg/hr
2/12/2025 8:00	20.1	9.04	312	4.09	229	0.00	11.46	5.85	0.561	0.939	53.07	0.790	13.03	78.46	43.4	0.717
2/12/2025 9:00	21.3	9.26	329	4.12	229	0.00	11.97	6.36	0.561	0.939	74.77	0.790	34.73	59.84	43.4	0.552
2/12/2025 10:00	30.9	9.32	341	4.05	229	0.00	11.72	9.27	0.561	0.939	215.66	0.790	175.63	68.74	43.4	0.631
2/12/2025 11:00	29.7	9.00	324	4.05	229	0.00	11.60	8.60	0.561	0.939	189.71	0.790	149.67	103.49	43.5	0.936
2/12/2025 12:00	29.1	10.05	376	4.04	229	0.00	12.25	9.42	0.561	0.939	210.52	0.790	170.48	140.68	43.5	1.310
2/12/2025 13:00	29.4	9.40	342	4.00	230	0.01	11.79	8.89	0.561	0.939	199.58	0.790	159.55	156.36	43.5	1.435
2/12/2025 14:00	30.8	9.41	351	4.00	229	0.00	11.89	9.32	0.561	0.939	217.10	0.790	177.06	156.07	43.5	1.440
2/12/2025 15:00	30.4	9.48	348	4.02	229	0.00	11.99	9.28	0.561	0.939	215.56	0.790	175.52	159.01	43.5	1.456
2/12/2025 16:00	31.8	9.41	345	4.00	229	0.00	11.58	9.63	0.561	0.939	234.11	0.790	194.08	168.11	43.6	1.570
2/12/2025 17:00	33.2	9.21	330	3.97	229	0.00	11.75	9.85	0.561	0.939	252.69	0.790	212.66	182.64	43.6	1.705
2/12/2025 18:00	30.4	9.52	352	3.95	230	0.00	12.22	9.33	0.561	0.939	219.71	0.790	179.68	197.14	43.6	1.838
2/12/2025 19:00	34.9	9.38	341	3.99	229	0.00	12.22	10.54	0.561	0.939	280.05	0.790	240.02	212.79	43.7	1.974
2/12/2025 20:00	34.6	9.48	362	3.98	230	0.00	12.11	10.55	0.561	0.939	270.46	0.790	230.43	214.17	43.7	2.000
2/12/2025 21:00	32.6	9.82	374	3.94	229	0.00	12.18	10.33	0.561	0.939	257.85	0.790	217.82	225.20	43.7	2.045
2/12/2025 22:00	38.1	9.51	355	3.90	229	0.00	12.07	11.69	0.561	0.939	331.19	0.790	291.16	229.25	43.8	2.059
2/12/2025 23:00	32.4	9.24	322	3.87	229	0.00	11.59	9.63	0.561	0.939	251.50	0.790	211.46	240.17	43.8	2.106
2/13/2025 0:00	33.9	9.09	305	3.90	229	0.00	11.53	9.91	0.561	0.939	271.75	0.790	231.72	241.17	43.8	2.127
2/13/2025 1:00	25.0	9.44	328	4.09	229	0.00	11.72	7.61	0.561	0.939	137.50	0.790	97.47	235.22	43.9	2.055
2/13/2025 2:00	28.1	9.40	325	4.14	229	0.00	11.62	8.49	0.561	0.939	178.60	0.790	138.57	191.13	43.9	1.684
2/13/2025 3:00	24.5	9.41	342	4.08	229	0.00	12.24	7.43	0.561	0.939	125.83	0.790	85.80	145.80	43.9	1.299
2/13/2025 4:00	21.9	9.40	326	4.10	229	0.00	11.55	6.62	0.561	0.939	88.74	0.790	48.71	95.64	43.9	0.850
2/13/2025 5:00	21.3	9.17	314	4.07	229	0.00	11.50	6.28	0.561	0.939	75.47	0.790	35.43	73.91	43.9	0.653
2/13/2025 6:00	17.4	9.00	301	4.10	229	0.00	9.25	5.05	0.561	0.939	12.46	0.790	0.00	40.17	43.9	0.357
2/13/2025 7:00	22.7	9.32	333	4.09	229	0.00	7.61	6.82	0.561	0.939	97.18	0.790	57.15	19.94	43.9	0.176
2/13/2025 8:00	12.8	9.27	342	4.08	229	0.00	8.05	3.83	0.561	0.939	-45.39	0.790	0.00	12.05	43.9	0.109
2/13/2025 9:00	10.7	9.35	342	4.10	229	0.00	7.93	3.22	0.561	0.939	-74.91	0.790	0.00	9.72	43.9	0.087
2/13/2025 10:00	0.3	9.39	381	-0.02	229	0.00	8.34	0.08	0.561	0.939	3.19	0.790	0.00	7.49	43.9	0.068
2/13/2025 11:00	12.4	9.35	340	4.04	229	0.00	8.24	3.73	0.561	0.939	-47.66	0.790	0.00	2.06	43.8	0.019
2/13/2025 12:00	8.5	9.27	350	2.94	230	0.00	7.98	2.55	0.561	0.939	-41.61	0.790	0.00	2.06	43.8	0.019
2/13/2025 13:00	13.0	9.39	347	3.98	229	0.00	8.06	3.94	0.561	0.939	-34.09	0.790	0.00	1.47	43.8	0.013
2/13/2025 14:00	16.9	9.18	327	4.49	230	0.00	8.23	4.99	0.561	0.939	-13.16	0.790	0.00	1.47	43.8	0.013
2/13/2025 15:00	13.7	9.07	320	4.26	229	0.00	7.09	4.01	0.561	0.939	-48.15	0.790	0.00	1.47	43.8	0.013
2/13/2025 16:00	16.1	9.06	325	3.89	229	0.00	7.28	4.71	0.561	0.939	7.36	0.790	0.00	0.00	43.8	0.000
2/13/2025 17:00	14.1	9.20	334	3.70	229	0.00	7.23	4.16	0.561	0.939	-8.59	0.790	0.00	0.00	43.8	0.000
2/13/2025 18:00	13.3	9.05	324	3.70	229	0.00	7.14	3.88	0.561	0.939	-22.76	0.790	0.00	0.00	43.8	0.000
2/13/2025 19:00	17.1	9.33	347	3.67	229	0.00	7.39	5.14	0.561	0.939	39.31	0.790	0.00	2.23	43.8	0.020
2/13/2025 20:00	14.6	9.24	329	3.68	229	0.00	7.51	4.35	0.561	0.939	1.52	0.790	0.00	2.27	43.8	0.021
2/13/2025 21:00	15.0	9.23	316	3.57	229	0.00	7.43	4.46	0.561	0.939	13.78	0.790	0.00	2.55	43.8	0.023
2/13/2025 22:00	16.1	9.28	326	3.60	229	0.00	7.22	4.80	0.561	0.939	28.47	0.790	0.00	0.58	43.8	0.005
2/13/2025 23:00	15.7	9.49	348	3.61	229	0.00	7.06	4.80	0.561	0.939	26.67	0.790	0.00	0.99	43.7	0.009
2/14/2025 0:00	13.9	9.08	324	3.58	229	0.00	7.53	4.07	0.561	0.939	-5.74	0.790	0.00	0.92	43.7	0.008
2/14/2025 1:00	14.6	9.28	323	3.54	229	0.00	7.60	4.37	0.561	0.939	10.62	0.790	0.00	1.92	43.7	0.017
2/14/2025 2:00	14.6	9.09	322	3.59	229	0.00	7.38	4.27	0.561	0.939	2.74	0.790	0.00	1.98	43.7	0.018
2/14/2025 3:00	16.3	9.10	316	3.63	229	0.00	7.61	4.76	0.561	0.939	25.18	0.790	0.00	2.19	43.7	0.020
2/14/2025 4:00	16.6	9.00	317	3.73	229	0.00	7.37	4.81	0.561	0.939	21.94	0.790	0.00	1.05	43.7	0.010
2/14/2025 5:00	13.5	9.01	313	3.72	229	0.00	7.47	3.91	0.561	0.939	-22.32	0.790	0.00	0.54	43.7	0.005
2/14/2025 6:00	14.5	9.07	312	3.69	229	0.00	7.21	4.24	0.561	0.939	-3.82	0.790	0.00	0.36	43.7	0.003
2/14/2025 7:00	16.9	9.07	323	3.65	229	0.00	7.13	4.94	0.561	0.939	32.17	0.790	0.00	1.40	43.7	0.013
2/14/2025 8:00	13.2	9.06	319	3.65	229	0.00	8.83	3.85	0.561	0.939	-21.26	0.790	0.00	1.39	43.7	0.013
2/14/2025 9:00	13.5	9.57	363	3.73	229	0.00	9.22	4.16	0.561	0.939	-9.66	0.790	0.00	1.15	43.7	0.011
2/14/2025 10:00	13.8	9.70	336	4.00	228	0.00	9.41	4.33	0.561	0.939	-17.47	0.790	0.00	0.00	43.7	0.000
2/14/2025 11:00	29.4	9.82	232	10.38	229	0.00	9.17	9.30	0.561	0.939	-168.55	0.790	0.00	0.00	43.7	0.000
2/14/2025 12:00	44.0	9.62	195	14.00	230	0.00	9.20	13.61	0.561	0.939	-179.00	0.790	0.00	0.00	43.6	0.000
2/14/2025 13:00	46.5	9.60	160	15.14	235	0.00	9.26	14.37	0.561	0.939	-232.78	0.790	0.00	0.00	43.6	0.000
2/14/2025 14:00	89.8	9.75	132	19.26	161	7.29	9.03	28.18	0.561	0.939	-354.60	0.790	0.00	0.00	43.6	0.000
2/14/2025 15:00	102.3	10.03	147	19.18	131	10.23	9.01	33.04	0.561	0.939	-258.73	0.790	0.00	0.00	43.6	0.000
2/14/2025 16:00	73.9	9.34	194	13.51	172	6.01	8.97	22.20	0.561	0.939	-103.25	0.790	0.00	2.74	43.6	0.025
2/14/2025 17:00	35.2	9.39	292	5.74	192	3.91	8.99	10.64	0.561	0.939	-62.94	0.790	0.00	5.84	43.6	0.053
2/14/2025 18:00	38.3	9.41	283	5.70	192	3.91	8.87	11.61	0.561	0.939	-6.19	0.790	0.00	5.84	43.6	0.053
2/14/2025 19:00	35.6	9.28	286	5.71	193	3.76	8.99	10.63	0.561	0.939	-51.32	0.790	0.00	3.10	43.6	0.028
2/14/2025 20:00	35.3	9.19	280	5.67	193	3.76	9.10	10.43	0.561	0.939	-60.27	0.790	0.00	0.00	43.6	0.000
2/14/2025 21:00	35.8	9.01	273	5.30	194	3.71	8.92	10.39	0.561	0.939	-34.61	0.790	0.00	0.00	43.6	0.000
2/14/2025 22:00	37.0	8.94	268	5.79	193	3.76	8.87	10.64	0.561	0.939	-58.27	0.790	0.00	0.00	43.6	0.000
2/14/2025 23:00	35.3	8.96	260	5.80	193	3.72	8.94	10.19	0.561	0.939	-84.52	34.400	34.40	0.00	43.6	0.000
2/15/2025 0:00	38.8	9.28	279	5.79	193	3.85	8.98	11.60	0.561	0.939	-8.46	34.400	110.46	25.94	43.6	0.235
2/15/2025 1:00	36.0	9.47	290	5.74	191	3.99	9.09	10.98	0.561	0.939	-50.50	34.400	68.42	58.49	43.6	0.528
2/15/2025 2:00	38.5	9.39	286	5.74	191	4.03	9.31	11.64	0.561	0.939	-15.74	34.400	103.18	79.63	43.6	0.722
2/15/2025 3:00	39.6	9.42	289	5.75	191	3.94	8.88	12.01	0.561	0.939	11.47	34.400	130.38	68.22	43.6	0.616
2/15/2025 4:00	37.5	8.89	259	5.63	192	3.92	9.40	10.73	0.561	0.939	-55.46	34.400	63.46	72.32	43.6	0.640
2/15/2025 5:00	38.3	9.14	275	5.43	192	3.90	9.33	11.28	0.561	0.939	-6.65	34.400	112.27	82.08	43.6	0.727
2/15/2025 6:00	39.4	9.08	270	5.57	192	3.89	9.44	11.53	0.561	0.939	-0.15	34.400	118.76	95.18	43.6	0.852
2/15/2025 7:00	37.7	9.45	306	5.50	191	3.94	8.83	11.46	0.561	0.939	-3.53	34.400	115.39	84.47	43.6	0.752
2/15/2025 8:00	41.6	9.52	304	5.58	192	3.90	9.18	12.76	0.561	0.939	65.77	34.400	184.69	106.45	43.7	0.950
2/15/2025 9:00	40.1	9.53	306	5.58	193	3.83	8.92	12.29	0.561	0.939	44.00	34.400	162.92	131.65	43.7	1.160
2/15/2025 10:00	43.2	9.37	298	5.53	193	3.84	9.24	13.03	0.561	0.939	88.72	34.400	207.64	162.67	43.7	1.438
2/15/2025 11:00	43.3	9.40	296	5.60	193	3.84	9.38	13.11	0.561	0.939	88.62	34.400	207.54	172.14	43.8	1.526
2/15/2025 12:00	40.1	8.75	261	5.55	193	3.85	8.96	11.29	0.561	0.939	-10.78	34.400	108.14	170.89	43.8	1.513
2/15/2025 13:00	38.9	9.26	297	5.40	193	3.83	9.49	11.61	0.561	0.939	18.68	34.400	137.60	165.86	43.8	1.475
2/15/2025 14:00	35.3	9.08	276	5.44	193	3.85	9.36	10.32	0.561	0.939	-59.36	34.400	59.56	139.88	43.8	1.238
2/15/2025 15:00	35.4	9.20	287	5.40	193	3.82	9.20	10.49	0.561	0.939	-42.78	34.400	76.14	119.65	43.8	1.067
2/15/2025 16:00	38.0	9.22	289	5.45	193	3.77	9.07	11.27	0.561	0.939	0.97	34.400	119.89	97.30	43.8	0.870
2/15/2025 17:00	35.1	9.06	280	5.41	189	3.77	9.43	10.24	0.561	0.939	-55.46	34.400	63.46	93.80	43.8	0.840
2/15/2025 18:00	37.0	9.48	312	5.27	188	3.80	11.13	11.30	0.561	0.939	12.55	34.400	131.47	103.79	43.8	0.912
2/15/2025 19:00	40.9	9.36	295	5.30	188	3.80	10.89	12.33	0.561	0.939	69.22	34.400	188.14	150.21	43.9	1.317
2/15/2025 20:00	41.8	9.41	307	4.60	188	3.83	11.16	12.66	0.561	0.939	128.20	34.400	247.12	186.70	43.9	1.673
2/15/2025 21:00	40.3	9.39	302	4.79	188	3.87	10.72	12.18	0.561	0.939	88.63	34.400	207.55	220.12	43.9	1.939
2/15/2025 22:00	45.5	9.52	316	4.83	188	3.84	10.92	13.94	0.561	0.939	180.26	34.400	299.18	226.38	44.0	2.019
2/15/2025 23:00	45.2	9.65	319	4.81	189	3.73	11.14	14.04	0.561	0.939	192.21	34.400	311.12	253.47	44.0	2.257
2/16/2025 0:00	42.5	9.52	318	4.85	193	3.75	11.21	13.03	0.561	0.939	133.99	34.400	252.91	273.28	44.1	2.439
2/16/2025 1:00	41.8	9.40	303	4.87	193	3.73	11.28	12.66	0.561	0.939	118.25	34.400	237.17	262.77	44.1	2.335
2/16/2025 2:00	44.4	9.55	316	4.85	192	3.85	10.61	13.64	0.561	0.939	160.41	34.400	279.33	247.77	44.1	2.218
2/16/2025 3:00	44.2	9.57	313	4.84	191	3.96	11.11	13.61	0.561	0.939	152.78	34.400	271.70	243.43	44.2	2.163
2/16/2025 4:00	47.0	9.53	312	4.84	191	3.93	11.18	14.41	0.561	0.939	198.80	34.400	317.72	269.90	44.2	2.412
2/16/2025 5:00	46.4	9.32	300	4.95	192	3.89	10.87	13.94	0.561	0.939	173.24	34.400	292.16	291.73	44.3	2.596
2/16/2025 6:00	44.8	9.13	285	4.91	191	3.94	11.17	13.17	0.561	0.939	134.50	34.400	253.42	302.94	44.3	2.688
2/16/2025 7:00	55.1	9.33	290	4.98	192	3.88	11.33	16.55	0.561	0.939	323.48	34.400	442.40	324.15	44.4	2.856
2/16/2025 8:00	41.6	9.27	296	4.93	192	3.85	10.90	12.40	0.561	0.939	93.05	34.400	211.97	311.81	44.4	2.742
2/16/2025 9:00	41.6	9.11	293	4.93	194	3.77	10.83	12.21	0.561	0.939	88.29	34.400	207.21	288.65	44.4	2.589
2/16/2025 10:00	36.8	9.50	307	4.87	193	3.72	11.00	11.26	0.561	0.939	41.75	34.400	160.67	242.74	44.5	2.161
2/16/2025 11:00	37.9	9.51	313	4.76	194	3.73	11.09	11.60	0.561	0.939	65.68	34.400	184.60	220.35	44.5	1.936
2/16/2025 12:00	39.1	9.70	329	4.81	194	3.66	10.85	12.21	0.561	0.939	96.65	34.400	215.57	212.07	44.5	1.852
2/16/2025 13:00	40.7	9.48	314	4.81	194	3.68	10.71	12.43	0.561	0.939	110.42	34.400	229.34	211.12	44.5	1.887
2/16/2025 14:00	39.3	9.32	304	4.72	193	3.79	10.34	11.80	0.561	0.939	75.39	34.400	194.31	209.51	44.6	1.871
2/16/2025 15:00	33.1	9.48	315	4.57	193	3.82	10.39	10.10	0.561	0.939	-9.64	34.400	109.28	196.04	44.6	1.753
2/16/2025 16:00	28.9	9.71	326	4.60	193	3.80	10.38	9.05	0.561	0.939	-64.98	34.400	53.94	159.30	44.6	1.417
2/16/2025 17:00	30.7	9.72	325	4.64	194	3.76	10.11	9.61	0.561	0.939	-35.80	34.400	83.12	118.21	44.6	1.049
2/16/2025 18:00	31.2	9.54	318	4.54	194	3.68	10.01	9.57	0.561	0.939	-26.11	34.400	92.81	89.74	44.6	0.797
2/16/2025 19:00	31.7	9.25	297	4.58	195	3.61	10.03	9.45	0.561	0.939	-30.88	34.400	88.04	92.01	44.6	0.825
2/16/2025 20:00	32.5	9.51	323	4.41	195	3.59	10.36	9.94	0.561	0.939	7.33	34.400	126.25	93.14	44.6	0.833
2/16/2025 21:00	60.0	10.14	256	10.53	187	4.45	10.36	19.61	0.561	0.939	93.91	34.400	212.83	83.67	44.7	0.747
2/16/2025 22:00	63.8	9.47	222	10.73	170	6.23	10.40	19.43	0.561	0.939	-81.79	34.400	37.13	63.79	44.7	0.570
2/16/2025 23:00	61.8	9.81	241	10.72	171	6.13	10.01	19.53	0.561	0.939	-61.99	34.400	56.93	51.11	44.7	0.460
2/17/2025 0:00	62.7	9.96	251	10.81	172	5.99	10.27	20.13	0.561	0.939	-17.20	34.400	101.72	52.61	44.7	0.478
2/17/2025 1:00	84.7	9.62	196	14.51	152	8.04	9.71	26.23	0.561	0.939	-89.51	34.400	29.41	43.61	44.7	0.400
2/17/2025 2:00	89.4	9.51	187	14.56	149	8.38	10.41	27.37	0.561	0.939	-40.40	34.400	78.52	37.70	44.7	0.341
2/17/2025 3:00	88.2	9.60	196	14.59	149	8.35	9.89	27.25	0.561	0.939	-47.51	34.400	71.41	30.19	44.7	0.279
2/17/2025 4:00	99.7	9.53	193	14.73	140	9.42	10.16	30.58	0.561	0.939	97.07	34.400	215.99	48.50	44.7	0.451
2/17/2025 5:00	107.3	9.40	180	14.95	139	9.48	9.75	32.47	0.561	0.939	235.99	34.400	354.91	404.14	44.8	3.707
2/17/2025 6:00	127.6	9.35	157	16.72	119	11.61	10.12	38.42	0.561	0.939	387.18	34.400	506.10	556.31	44.8	5.233
2/17/2025 7:00	114.6	9.29	157	16.55	118	11.72	9.93	34.27	0.561	0.939	-23.04	34.400	95.87	590.07	44.9	5.597
2/17/2025 8:00	117.4	9.39	164	16.05	116	11.84	10.17	35.48	0.561	0.939	140.11	34.400	259.02	289.67	44.9	2.706
2/17/2025 9:00	121.2	9.61	164	17.80	117	11.74	10.28	37.53	0.561	0.939	151.70	34.400	270.62	194.01	44.9	1.813
2/17/2025 10:00	115.7	9.66	164	17.82	117	11.66	10.32	35.96	0.561	0.939	4.35	34.400	123.27	184.09	44.9	1.765
2/17/2025 11:00	114.7	9.76	165	18.68	121	11.32	9.78	36.03	0.561	0.939	-44.04	34.400	74.88	160.01	44.9	1.502
2/17/2025 12:00	119.8	9.95	165	21.17	122	11.24	10.38	38.36	0.561	0.939	-89.65	34.400	29.27	115.46	44.9	1.105
2/17/2025 13:00	118.4	9.89	165	20.74	122	11.27	9.31	37.70	0.561	0.939	-109.03	34.400	9.88	101.02	44.9	0.957
2/17/2025 14:00	123.3	9.77	166	20.83	121	11.29	9.19	38.78	0.561	0.939	-16.33	34.400	102.59	93.77	45.0	0.893

Fuel Gas H2S Estimation

H2S concentration in Fuel Gas is estimated using the best available data and operating information for heat and material balances, supported by the lab analysis of manual sampling.

For Hydrobon/Platformer fired heaters, the SO2 emissions are estimated using the measured average fuel gas flow rate and the estimated H2S concentration in the Fuel Gas.

Date and Time	North Stack SO2	North Stack Flow	Boiler 9 Fuel Gas	Boiler 9 Fuel Oil	Boiler 13 Fuel Gas	Boiler 13 Fuel Oil	LPG Vapourization Rate	Total Boilers Sulphur Emission	LRF Sulphur Content	LRF Density	Raw Estimated Fuel Gas H2S Concentration	Lab Result Fuel Gas H2S Concentration	Corrected Estimated Fuel Gas H2S Concentration	3hr Rolling Average H2S Concentration	365 Day Rolling Average H2S Concentration	Heater SO2 Emissions
	ppmv	MMSCFH	MSCFH	GPM	MSCFH	GPM	MSCFH	kg/hr	%	kg/L	ppmv	ppmv	ppmv	ppmv	ppmv	kg/hr
2/17/2025 15:00	121.0	9.53	167	18.21	122	11.15	7.29	37.14	0.561	0.939	136.28	34.400	255.20	113.70	45.0	1.073
2/17/2025 16:00	115.5	9.39	167	18.29	121	11.31	7.10	34.89	0.561	0.939	-106.22	34.400	12.70	120.14	45.0	1.127
2/17/2025 17:00	112.6	9.27	163	16.33	115	11.94	7.50	33.62	0.561	0.939	-88.65	34.400	30.27	131.01	45.0	1.215
2/17/2025 18:00	122.9	9.71	156	19.92	110	12.50	7.18	38.43	0.561	0.939	-106.20	34.400	12.71	117.27	45.0	1.104
2/17/2025 19:00	131.7	9.87	155	20.31	101	13.43	7.51	41.87	0.561	0.939	80.72	34.400	199.64	113.15	45.0	1.062
2/17/2025 20:00	129.1	9.76	155	20.85	111	12.42	7.58	40.55	0.561	0.939	11.21	34.400	130.13	121.88	45.0	1.151
2/17/2025 21:00	131.3	10.23	155	21.92	111	12.31	7.31	43.26	0.561	0.939	176.22	34.400	295.14	138.21	45.1	1.301
2/17/2025 22:00	126.4	9.68	155	20.23	112	12.28	7.01	39.40	0.561	0.939	-13.33	34.400	105.59	140.98	45.1	1.324
2/17/2025 23:00	128.4	10.05	155	22.02	110	12.40	7.55	41.53	0.561	0.939	-25.22	34.400	93.70	137.88	45.1	1.299
2/18/2025 0:00	129.7	9.96	160	21.52	113	12.11	6.97	41.58	0.561	0.939	75.26	34.400	194.18	144.27	45.1	1.352
2/18/2025 1:00	127.5	9.75	160	19.81	112	12.23	7.00	40.01	0.561	0.939	103.17	34.400	222.09	155.03	45.1	1.445
2/18/2025 2:00	130.6	10.15	160	22.52	112	12.27	7.08	42.69	0.561	0.939	48.55	34.400	167.47	154.64	45.2	1.457
2/18/2025 3:00	130.5	10.22	160	23.34	116	11.84	7.44	42.96	0.561	0.939	35.08	34.400	154.00	151.66	45.2	1.441
2/18/2025 4:00	128.3	10.06	160	22.80	115	11.98	7.03	41.54	0.561	0.939	-60.26	34.400	58.66	146.28	45.2	1.396
2/18/2025 5:00	121.1	9.75	160	19.93	113	12.11	7.17	38.03	0.561	0.939	-92.35	34.400	26.57	149.17	45.2	1.402
2/18/2025 6:00	124.9	10.07	160	21.05	115	12.01	7.49	40.51	0.561	0.939	37.17	34.400	156.09	154.99	45.2	1.441
2/18/2025 7:00	123.6	9.95	160	19.87	115	12.01	7.25	39.58	0.561	0.939	81.88	34.400	200.80	160.35	45.2	1.503
2/18/2025 8:00	120.6	9.91	160	19.75	115	11.98	7.32	38.48	0.561	0.939	-9.66	34.400	109.26	138.03	45.2	1.285
2/18/2025 9:00	121.0	9.96	159	19.77	114	12.03	7.03	38.79	0.561	0.939	11.65	34.400	130.57	101.25	45.3	0.939
2/18/2025 10:00	122.1	9.89	160	20.15	115	11.94	7.56	38.87	0.561	0.939	-13.56	34.400	105.36	64.90	45.3	0.622
2/18/2025 11:00	121.7	10.03	160	20.43	115	12.05	7.60	39.31	0.561	0.939	-15.72	34.400	103.20	52.91	45.3	0.488
2/18/2025 12:00	120.2	10.03	160	20.64	116	11.89	7.00	38.79	0.561	0.939	-71.32	34.400	47.60	44.72	45.3	0.412
2/18/2025 13:00	117.5	10.15	159	21.29	118	11.69	7.15	38.41	0.561	0.939	-158.09	34.400	0.00	43.27	45.3	0.407
2/18/2025 14:00	120.8	9.98	161	19.87	116	11.88	7.31	38.84	0.561	0.939	25.31	34.400	144.23	37.32	45.3	0.350
2/18/2025 15:00	122.9	10.38	160	22.69	115	11.90	7.47	41.07	0.561	0.939	-85.24	34.400	33.68	34.80	45.3	0.325
2/18/2025 16:00	115.7	9.90	160	20.37	117	11.68	7.23	36.89	0.561	0.939	-199.63	34.400	0.00	30.09	45.3	0.281
2/18/2025 17:00	120.3	9.96	159	19.85	117	11.71	6.65	38.60	0.561	0.939	24.01	34.400	142.93	27.08	45.3	0.249
2/18/2025 18:00	123.2	10.45	160	23.00	118	11.69	6.64	41.45	0.561	0.939	-54.91	34.400	64.01	30.21	45.3	0.284
2/18/2025 19:00	116.7	10.48	161	22.51	119	11.47	6.40	39.37	0.561	0.939	-174.05	34.400	0.00	32.63	45.3	0.303
2/18/2025 20:00	119.7	10.40	160	23.05	116	11.87	6.23	40.09	0.561	0.939	-219.96	34.400	0.00	34.37	45.3	0.318
2/18/2025 21:00	123.6	10.57	160	23.90	117	11.68	7.14	42.05	0.561	0.939	-100.07	34.400	18.85	34.71	45.3	0.326
2/18/2025 22:00	118.4	10.39	160	22.79	118	11.66	7.19	39.60	0.561	0.939	-209.79	34.400	0.00	31.74	45.3	0.301
2/18/2025 23:00	121.1	10.35	160	22.16	118	11.63	7.62	40.37	0.561	0.939	-56.79	34.400	62.13	30.79	45.3	0.287
2/19/2025 0:00	119.3	10.05	160	21.13	117	11.73	7.41	38.63	0.564	0.938	-144.90	34.400	0.00	27.46	45.3	0.259
2/19/2025 1:00	119.6	9.99	160	20.30	117	11.70	7.25	38.47	0.564	0.938	-60.16	34.400	58.76	22.14	45.3	0.205
2/19/2025 2:00	116.4	9.89	160	19.62	117	11.81	7.40	37.10	0.564	0.938	-131.29	34.400	0.00	19.42	45.3	0.182
2/19/2025 3:00	119.7	10.17	160	20.96	117	11.67	7.09	39.21	0.564	0.938	-59.90	34.400	59.02	20.29	45.3	0.191
2/19/2025 4:00	114.7	9.93	160	20.19	120	11.54	7.34	36.67	0.564	0.938	-203.76	34.400	0.00	25.80	45.3	0.242
2/19/2025 5:00	115.6	10.01	160	19.76	119	11.52	7.42	37.25	0.564	0.938	-93.83	34.400	25.09	23.70	45.2	0.222
2/19/2025 6:00	114.4	9.92	160	20.36	120	11.47	7.16	36.53	0.564	0.938	-227.23	34.400	0.00	18.82	45.2	0.176
2/19/2025 7:00	119.7	10.44	160	21.78	118	11.56	9.00	40.25	0.564	0.938	-38.12	34.400	80.80	13.03	45.2	0.123
2/19/2025 8:00	115.6	10.03	160	19.54	119	11.58	9.50	37.36	0.564	0.938	-65.96	34.400	52.96	19.86	45.2	0.186
2/19/2025 9:00	117.4	9.66	161	18.16	117	11.68	9.42	36.53	0.564	0.938	0.22	34.400	119.14	39.07	45.3	0.370
2/19/2025 10:00	117.7	9.57	160	17.92	118	11.67	9.24	36.29	0.564	0.938	4.04	34.400	122.96	64.38	45.3	0.613
2/19/2025 11:00	115.7	9.72	160	18.77	120	11.44	8.83	36.20	0.564	0.938	-72.13	34.400	46.79	83.17	45.3	0.811
2/19/2025 12:00	109.8	9.73	160	16.62	119	11.57	9.28	34.40	0.564	0.938	-16.66	34.400	102.26	82.98	45.3	0.753
2/19/2025 13:00	111.4	9.77	160	17.18	119	11.54	9.41	35.03	0.564	0.938	-16.26	34.400	102.66	71.97	45.3	0.640
2/19/2025 14:00	109.3	10.38	158	18.39	117	11.66	9.20	36.51	0.564	0.938	-26.39	34.400	92.53	59.92	45.3	0.521
2/19/2025 15:00	121.6	9.75	160	18.60	108	12.68	8.99	38.15	0.564	0.938	-19.89	34.400	99.03	52.75	45.3	0.502
2/19/2025 16:00	119.0	9.59	160	17.97	111	12.40	9.46	36.76	0.564	0.938	-47.66	34.400	71.25	59.93	45.3	0.572
2/19/2025 17:00	119.6	9.67	160	18.16	108	12.74	9.41	37.23	0.564	0.938	-70.51	34.400	48.41	67.75	45.3	0.651
2/19/2025 18:00	119.1	9.71	159	17.85	106	12.92	8.91	37.24	0.564	0.938	-55.14	34.400	63.78	72.57	45.3	0.694
2/19/2025 19:00	123.1	9.75	160	19.03	106	12.91	9.00	38.62	0.564	0.938	-55.42	34.400	63.49	74.49	45.3	0.710
2/19/2025 20:00	120.4	9.73	160	18.16	105	12.97	8.90	37.71	0.564	0.938	-51.46	34.400	67.46	78.11	45.3	0.744
2/19/2025 21:00	120.6	9.78	160	18.43	105	13.01	8.87	37.96	0.564	0.938	-63.52	34.400	55.40	80.05	45.3	0.770
2/19/2025 22:00	119.6	9.83	159	19.58	108	12.69	9.27	37.83	0.564	0.938	-173.60	34.400	0.00	74.48	45.3	0.712
2/19/2025 23:00	116.4	9.54	160	17.17	105	13.00	9.25	35.77	0.564	0.938	-135.92	0.100	0.10	78.26	45.3	0.748
2/20/2025 0:00	124.0	10.14	160	19.81	106	12.90	9.33	40.46	0.564	0.938	43.51	0.100	179.52	94.46	45.3	0.904
2/20/2025 1:00	119.4	9.78	160	18.62	107	12.80	9.19	37.59	0.564	0.938	-96.93	0.100	39.09	111.56	45.3	1.067
2/20/2025 2:00	120.9	9.87	160	18.62	109	12.58	9.25	38.42	0.564	0.938	18.72	0.100	154.74	112.49	45.4	1.066
2/20/2025 3:00	121.0	9.83	160	18.75	112	12.34	8.89	38.29	0.564	0.938	19.64	0.100	155.65	106.32	45.4	1.014
2/20/2025 4:00	124.7	9.91	161	19.33	109	12.56	9.09	39.77	0.564	0.938	73.89	0.100	209.91	105.66	45.4	1.002
2/20/2025 5:00	124.9	10.37	160	21.96	111	12.41	9.21	41.71	0.564	0.938	-25.18	0.100	110.84	100.82	45.4	0.955
2/20/2025 6:00	121.3	10.25	160	21.46	111	12.35	8.97	40.02	0.564	0.938	-129.70	0.100	6.31	81.77	45.4	0.786
2/20/2025 7:00	124.0	10.16	160	20.65	110	12.54	9.04	40.57	0.564	0.938	-0.66	0.100	135.36	81.46	45.4	0.792
2/20/2025 8:00	124.0	9.95	160	20.34	113	12.20	9.03	39.74	0.564	0.938	-3.82	0.100	132.20	101.85	45.4	0.989
2/20/2025 9:00	121.3	9.96	160	20.01	112	12.28	9.49	38.89	0.564	0.938	-60.65	0.100	75.36	124.14	45.4	1.186
2/20/2025 10:00	122.3	10.07	160	20.69	112	12.30	9.42	39.65	0.564	0.938	-67.81	0.100	68.21	137.02	45.5	1.315
2/20/2025 11:00	121.6	9.80	160	19.54	112	12.29	9.04	38.39	0.564	0.938	-56.86	0.100	79.16	137.78	45.5	1.333
2/20/2025 12:00	117.7	10.02	158	20.75	112	12.25	9.41	37.96	0.564	0.938	-241.35	0.100	0.00	150.35	45.4	1.450
2/20/2025 13:00	124.1	9.79	160	18.85	111	12.39	9.16	39.12	0.564	0.938	86.43	0.100	222.44	170.48	45.5	1.644
2/20/2025 14:00	124.1	9.95	160	19.94	112	12.21	9.29	39.78	0.564	0.938	46.88	0.100	182.89	189.30	45.5	1.805
2/20/2025 15:00	123.7	9.72	161	18.75	114	12.10	9.39	38.71	0.564	0.938	95.08	0.100	231.10	203.93	45.5	1.963
2/20/2025 16:00	123.8	9.76	160	18.68	113	12.16	9.34	38.87	0.564	0.938	112.14	0.100	248.16	189.01	45.6	1.818
2/20/2025 17:00	123.9	9.72	160	18.66	112	12.24	9.44	38.77	0.564	0.938	93.80	0.100	229.81	182.73	45.6	1.746
2/20/2025 18:00	129.6	10.37	160	22.20	112	12.36	6.96	43.27	0.564	0.938	111.03	0.100	247.04	175.96	45.6	1.696
2/20/2025 19:00	126.3	9.94	160	19.98	112	12.25	7.18	40.44	0.564	0.938	103.03	0.100	239.04	191.90	45.7	1.854
2/20/2025 20:00	124.8	9.83	160	19.29	113	12.12	7.24	39.52	0.564	0.938	108.09	0.100	244.11	196.40	45.7	1.874
2/20/2025 21:00	121.7	9.76	160	18.27	112	12.29	7.05	38.25	0.564	0.938	79.78	0.100	215.80	207.33	45.7	1.993
2/20/2025 22:00	129.6	10.19	160	21.02	112	12.36	7.33	42.51	0.564	0.938	173.84	0.100	309.86	219.91	45.8	2.124
2/20/2025 23:00	125.8	11.04	160	23.63	112	12.22	7.07	44.70	0.564	0.938	102.69	0.100	238.71	230.35	45.8	2.221
2/21/2025 0:00	127.0	9.96	161	20.66	112	12.22	7.16	40.72	0.564	0.938	54.17	0.100	190.19	222.58	45.8	2.171
2/21/2025 1:00	127.0	9.93	161	19.89	112	12.22	7.24	40.59	0.564	0.938	133.41	0.100	269.43	212.63	45.9	2.053
2/21/2025 2:00	121.8	9.64	160	18.19	114	12.00	7.06	37.82	0.564	0.938	83.54	0.100	219.56	210.82	45.9	2.055
2/21/2025 3:00	122.0	9.80	161	19.35	112	12.33	7.49	38.48	0.564	0.938	-30.35	0.100	105.67	219.73	45.9	2.135
2/21/2025 4:00	121.5	9.62	160	18.05	112	12.32	7.54	37.64	0.564	0.938	40.52	0.100	176.54	230.71	46.0	2.243
2/21/2025 5:00	121.9	9.79	160	18.64	112	12.32	7.49	38.42	0.564	0.938	50.05	0.100	186.06	237.93	46.0	2.316
2/21/2025 6:00	122.4	9.72	160	18.73	113	12.13	7.37	38.29	0.564	0.938	50.54	0.100	186.55	249.08	46.0	2.408
2/21/2025 7:00	123.4	9.76	160	18.64	113	12.10	7.39	38.78	0.564	0.938	114.26	0.100	250.28	237.59	46.0	2.313
2/21/2025 8:00	117.9	9.82	160	19.32	112	12.22	7.20	37.30	0.564	0.938	-129.42	0.100	6.60	228.93	46.0	2.240
2/21/2025 9:00	122.4	10.21	159	20.45	112	12.23	7.37	40.25	0.564	0.938	29.50	0.100	165.52	191.83	46.1	1.851
2/21/2025 10:00	120.0	9.78	160	18.86	114	12.09	7.69	37.75	0.564	0.938	-13.51	0.100	122.50	168.98	46.1	1.627
2/21/2025 11:00	112.6	9.97	160	17.94	113	12.16	7.54	36.15	0.564	0.938	-74.57	0.100	61.45	134.00	46.1	1.220
2/21/2025 12:00	117.5	10.14	160	18.81	110	12.45	7.60	38.37	0.564	0.938	7.70	0.100	143.72	113.51	46.1	1.017
2/21/2025 13:00	121.3	9.97	160	19.24	103	13.33	7.21	38.94	0.564	0.938	-104.66	0.100	31.35	79.94	46.1	0.741
2/21/2025 14:00	125.7	9.72	150	18.87	102	13.23	7.55	39.35	0.564	0.938	-2.80	0.100	133.22	61.52	46.1	0.568
2/21/2025 15:00	130.9	9.84	131	21.79	100	13.55	7.32	41.44	0.564	0.938	-212.38	0.100	0.00	54.51	46.1	0.510
2/21/2025 16:00	131.2	9.87	130	21.90	103	13.21	7.42	41.69	0.564	0.938	-146.53	0.100	0.00	56.18	46.1	0.527
2/21/2025 17:00	130.3	9.89	130	21.11	102	13.29	7.14	41.52	0.564	0.938	-68.49	0.100	67.53	57.50	46.1	0.535
2/21/2025 18:00	134.5	9.84	130	21.61	101	13.44	7.18	42.61	0.564	0.938	-31.65	0.100	104.37	61.33	46.1	0.577
2/21/2025 19:00	132.1	9.68	130	20.86	102	13.32	7.03	41.20	0.564	0.938	-74.85	0.100	61.16	68.95	46.1	0.650
2/21/2025 20:00	130.0	9.64	130	20.06	103	13.17	7.10	40.35	0.564	0.938	-41.49	0.100	94.53	75.93	46.1	0.713
2/21/2025 21:00	129.2	9.60	130	20.59	102	13.19	7.67	39.94	0.564	0.938	-168.39	0.100	0.00	73.55	46.1	0.697
2/21/2025 22:00	128.7	9.66	130	20.27	106	12.93	7.52	40.01	0.564	0.938	-72.11	0.100	63.91	62.61	46.1	0.596
2/21/2025 23:00	128.4	9.69	130	20.45	108	12.77	7.29	40.04	0.564	0.938	-69.56	0.060	0.06	56.78	46.1	0.530
2/22/2025 0:00	125.6	9.65	130	20.22	108	12.70	7.46	39.01	0.564	0.938	-146.97	0.060	0.00	46.00	46.1	0.436
2/22/2025 1:00	125.7	9.80	130	21.51	110	12.56	7.59	39.67	0.564	0.938	-223.23	0.060	0.00	44.66	46.1	0.420
2/22/2025 2:00	127.1	9.71	130	20.43	107	12.74	7.43	39.72	0.564	0.938	-99.13	0.060	0.00	34.38	46.1	0.324
2/22/2025 3:00	130.8	9.68	130	20.29	107	12.80	7.57	40.78	0.564	0.938	33.58	0.060	103.19	40.30	46.1	0.378
2/22/2025 4:00	135.2	9.72	130	20.63	100	13.51	7.37	42.33	0.564	0.938	60.79	0.060	130.41	37.94	46.1	0.358
2/22/2025 5:00	131.7	9.52	130	19.86	101	13.38	7.21	40.38	0.564	0.938	-40.94	0.060	28.68	51.61	46.1	0.482
2/22/2025 6:00	130.2	9.58	130	20.26	102	13.29	7.54	40.16	0.564	0.938	-110.76	0.060	0.00	55.68	46.1	0.520
2/22/2025 7:00	137.9	9.96	130	21.93	101	13.43	7.39	44.23	0.564	0.938	118.16	0.060	187.78	72.40	46.1	0.679
2/22/2025 8:00	130.4	9.58	130	20.21	100	13.48	7.04	40.24	0.564	0.938	-125.24	0.060	0.00	81.68	46.1	0.759
2/22/2025 9:00	137.0	9.95	130	21.81	100	13.53	7.51	43.87	0.564	0.938	78.10	0.060	147.72	78.84	46.1	0.729
2/22/2025 10:00	132.7	10.08	130	22.10	101	13.37	7.57	43.10	0.564	0.938	-32.42	0.060	37.20	59.76	46.1	0.555
2/22/2025 11:00	93.9	10.61	201	17.18	148	8.55	7.01	32.09	0.564	0.938	60.43	0.060	130.05	53.87	46.1	0.497
2/22/2025 12:00	52.7	9.61	250	9.21	186	4.52	7.50	16.29	0.564	0.938	-25.87	0.060	43.75	82.32	46.1	0.741
2/22/2025 13:00	35.6	9.23	276	6.77	216	0.00	7.50	10.58	0.564	0.938	142.55	0.060	212.17	150.55	46.2	1.345
2/22/2025 14:00	33.5	9.03	278	6.81	215	0.00	7.18	9.73	0.564	0.938	93.71	0.060	163.33	175.24	46.2	1.583
2/22/2025 15:00	31.6	9.01	280	6.85	215	0.00	7.40	9.18	0.564	0.938	60.38	0.060	130.00	184.07	46.2	1.653
2/22/2025 16:00	30.6	9.15	296	6.23	216	0.00	7.20	9.01	0.564	0.938	87.79	0.060	157.41	153.90	46.2	1.384
2/22/2025 17:00	27.7	9.23	307	6.19	216	0.00	7.56	8.24	0.564	0.938	48.88	0.060	118.50	145.72	46.2	1.318
2/22/2025 18:00	30.6	9.31	321	6.19	215	0.00	6.60	9.16	0.564	0.938	93.79	0.060	163.41	142.39	46.2	1.292
2/22/2025 19:00	30.3	9.35	310	6.10	215	0.00	6.24	9.11	0.564	0.938	98.99	0.060	168.61	143.62	46.3	1.287
2/22/2025 20:00	29.5	8.89	283	6.17	215	0.00	6.20	8.45	0.564	0.938	63.57	0.060	133.18	146.84	46.3	1.326
2/22/2025 21:00	27.1	9.18	314	5.91	216	0.00	6.31	8.01	0.564	0.938	53.24	0.060	122.86	149.69	46.3	1.354

Fuel Gas H2S Estimation

H2S concentration in Fuel Gas is estimated using the best available data and operating information for heat and material balances, supported by the lab analysis of manual sampling.

For Hydrobon/Platformer fired heaters, the SO2 emissions are estimated using the measured average fuel gas flow rate and the estimated H2S concentration in the Fuel Gas.

Date and Time	North Stack SO2	North Stack Flow	Boiler 9 Fuel Gas	Boiler 9 Fuel Oil	Boiler 13 Fuel Gas	Boiler 13 Fuel Oil	LPG Vapourization Rate	Total Boilers Sulphur Emission	LRF Sulphur Content	LRF Density	Raw Estimated Fuel Gas H2S Concentration	Lab Result Fuel Gas H2S Concentration	Corrected Estimated Fuel Gas H2S Concentration	3hr Rolling Average H2S Concentration	365 Day Rolling Average H2S Concentration	Heater SO2 Emissions
	ppmv	MMSCFH	MSCFH	GPM	MSCFH	GPM	MSCFH	kg/hr	%	kg/L	ppmv	ppmv	ppmv	ppmv	ppmv	kg/hr
2/22/2025 22:00	27.4	9.46	316	6.00	216	0.00	6.40	8.34	0.564	0.938	64.10	0.060	133.72	149.12	46.3	1.352
2/22/2025 23:00	26.7	9.27	290	5.81	216	0.00	6.22	7.96	0.564	0.938	59.14	0.060	128.76	148.89	46.3	1.326
2/23/2025 0:00	29.2	9.10	301	5.69	216	0.00	6.64	8.57	0.564	0.938	97.32	0.060	166.94	148.41	46.4	1.340
2/23/2025 1:00	28.1	8.80	275	5.68	215	0.00	6.64	7.95	0.564	0.938	68.78	0.060	138.40	153.49	46.4	1.386
2/23/2025 2:00	30.3	8.88	278	6.03	216	0.00	6.32	8.65	0.564	0.938	84.31	0.060	153.93	151.51	46.4	1.370
2/23/2025 3:00	30.2	8.99	283	6.01	215	0.00	6.37	8.75	0.564	0.938	90.31	0.060	159.93	152.09	46.4	1.371
2/23/2025 4:00	29.4	8.87	278	5.71	215	0.00	6.20	8.40	0.564	0.938	90.91	0.060	160.53	149.48	46.4	1.349
2/23/2025 5:00	27.7	8.69	276	5.67	216	0.00	6.68	7.75	0.564	0.938	58.91	0.060	128.53	152.21	46.4	1.377
2/23/2025 6:00	29.5	8.69	274	5.46	215	0.00	6.38	8.26	0.564	0.938	100.58	0.060	170.19	147.34	46.5	1.329
2/23/2025 7:00	26.2	8.64	271	5.36	215	0.00	6.20	7.28	0.564	0.938	53.55	0.060	123.17	143.96	46.5	1.301
2/23/2025 8:00	23.4	8.64	273	5.33	216	0.01	8.86	6.51	0.564	0.938	12.52	0.060	82.14	123.81	46.5	1.117
2/23/2025 9:00	19.1	8.56	264	5.31	215	0.00	9.28	5.27	0.564	0.938	-55.89	0.060	13.73	102.49	46.5	0.928
2/23/2025 10:00	26.2	8.63	265	5.43	215	0.00	8.86	7.29	0.564	0.938	50.48	0.060	120.09	78.78	46.5	0.705
2/23/2025 11:00	23.4	8.72	270	5.33	216	0.00	9.22	6.57	0.564	0.938	16.33	0.060	85.95	72.35	46.5	0.649
2/23/2025 12:00	23.0	8.67	272	5.34	215	0.00	9.08	6.41	0.564	0.938	6.59	0.060	76.21	74.34	46.5	0.670
2/23/2025 13:00	23.0	8.63	272	5.30	215	0.00	9.02	6.40	0.564	0.938	8.71	0.060	78.33	72.27	46.5	0.649
2/23/2025 14:00	22.0	8.74	266	5.21	215	0.00	9.45	6.19	0.564	0.938	2.53	0.060	72.14	70.18	46.5	0.626
2/23/2025 15:00	24.8	8.58	270	5.34	216	0.00	9.36	6.85	0.564	0.938	31.55	0.060	101.16	66.80	46.5	0.599
2/23/2025 16:00	21.0	8.84	284	5.08	215	0.00	9.43	5.98	0.564	0.938	-0.54	0.060	69.07	70.48	46.5	0.636
2/23/2025 17:00	19.5	9.07	305	4.90	216	0.01	9.47	5.69	0.564	0.938	-4.49	0.060	65.13	76.65	46.5	0.682
2/23/2025 18:00	20.2	9.04	299	4.87	215	0.00	9.14	5.88	0.564	0.938	7.64	0.060	77.26	81.81	46.5	0.732
2/23/2025 19:00	18.4	9.17	330	4.84	216	0.00	9.19	5.44	0.564	0.938	-13.19	0.060	56.43	84.18	46.5	0.774
2/23/2025 20:00	21.3	9.13	321	4.45	215	0.00	8.94	6.27	0.564	0.938	51.34	0.060	120.96	88.27	46.5	0.809
2/23/2025 21:00	19.5	8.76	291	4.86	216	0.00	9.45	5.50	0.564	0.938	-12.53	0.060	57.08	93.02	46.5	0.848
2/23/2025 22:00	19.9	8.61	295	4.73	216	0.00	9.48	5.51	0.564	0.938	-3.87	0.060	65.75	97.33	46.6	0.891
2/23/2025 23:00	23.4	8.41	280	4.66	216	0.00	9.41	6.35	0.564	0.938	47.09	0.060	116.70	95.96	46.6	0.880
2/24/2025 0:00	21.3	8.57	286	4.54	215	0.00	9.12	5.88	0.564	0.938	28.88	0.060	98.49	93.62	46.6	0.848
2/24/2025 1:00	19.2	8.62	298	4.27	215	0.00	8.91	5.33	0.564	0.938	15.84	0.060	85.45	94.79	46.6	0.868
2/24/2025 2:00	18.9	8.59	298	4.08	216	0.00	8.96	5.22	0.564	0.938	21.49	0.060	91.11	97.51	46.6	0.891
2/24/2025 3:00	19.8	8.70	299	3.99	216	0.00	8.91	5.53	0.564	0.938	43.80	0.060	113.42	98.44	46.6	0.905
2/24/2025 4:00	17.8	8.61	303	3.93	216	0.00	9.43	4.93	0.564	0.938	15.44	0.060	85.06	95.41	46.6	0.872
2/24/2025 5:00	17.4	8.75	303	3.87	216	0.00	8.53	4.90	0.564	0.938	17.45	0.060	87.07	93.21	46.6	0.843
2/24/2025 6:00	13.8	8.99	323	3.82	215	0.00	8.46	4.01	0.564	0.938	-24.71	0.060	44.91	93.53	46.6	0.852
2/24/2025 7:00	16.1	8.84	313	3.81	216	0.00	8.30	4.57	0.564	0.938	3.95	0.060	73.57	96.10	46.6	0.873
2/24/2025 8:00	14.8	8.91	318	3.76	216	0.00	8.34	4.23	0.564	0.938	-10.06	0.060	59.56	88.01	46.6	0.798
2/24/2025 9:00	15.2	8.86	320	3.63	215	0.00	8.00	4.32	0.564	0.938	2.38	0.060	72.00	79.12	46.6	0.716
2/24/2025 10:00	15.2	8.95	318	3.75	216	0.00	8.48	4.37	0.564	0.938	-2.03	0.060	67.59	69.16	46.6	0.607
2/24/2025 11:00	15.2	9.03	345	3.76	215	0.00	8.17	4.41	0.564	0.938	-1.01	0.060	68.61	69.99	46.6	0.631
2/24/2025 12:00	16.2	9.25	349	3.68	215	0.00	7.96	4.84	0.564	0.938	24.06	0.060	93.68	70.13	46.6	0.626
2/24/2025 13:00	10.6	9.29	355	3.60	215	0.00	8.53	3.17	0.564	0.938	-51.02	0.060	18.60	67.39	46.6	0.602
2/24/2025 14:00	16.7	9.23	340	3.60	215	0.00	8.45	4.96	0.564	0.938	35.30	0.060	104.91	62.97	46.6	0.558
2/24/2025 15:00	16.0	8.97	345	3.53	216	0.00	8.16	4.62	0.564	0.938	22.36	0.060	91.98	61.71	46.7	0.560
2/24/2025 16:00	13.1	8.84	324	3.32	215	0.00	8.08	3.73	0.564	0.938	-9.33	0.060	60.29	69.84	46.7	0.628
2/24/2025 17:00	14.5	9.14	351	3.98	216	0.00	6.65	4.27	0.564	0.938	-19.56	0.060	50.06	77.57	46.7	0.700
2/24/2025 18:00	16.2	9.14	347	3.90	216	0.00	5.61	4.78	0.564	0.938	8.88	0.060	78.50	78.48	46.7	0.701
2/24/2025 19:00	17.8	9.11	342	3.91	215	0.00	5.03	5.21	0.564	0.938	28.82	0.060	98.44	74.68	46.7	0.672
2/24/2025 20:00	16.7	9.02	336	3.92	215	0.00	5.62	4.85	0.564	0.938	11.40	0.060	81.02	70.43	46.7	0.626
2/24/2025 21:00	15.2	8.86	311	4.05	216	0.00	5.21	4.33	0.564	0.938	-22.36	0.060	47.26	69.68	46.7	0.622
2/24/2025 22:00	15.5	9.27	333	4.08	216	0.00	5.51	4.63	0.564	0.938	-8.52	0.060	61.10	64.50	46.7	0.581
2/24/2025 23:00	15.9	9.15	331	3.96	215	0.00	5.65	4.67	0.564	0.938	0.33	0.010	0.01	63.47	46.7	0.571
2/25/2025 0:00	15.5	8.83	323	3.88	215	0.00	5.25	4.40	0.564	0.938	-8.74	0.010	0.00	44.33	46.7	0.400
2/25/2025 1:00	17.3	8.69	317	3.89	216	0.00	5.55	4.85	0.564	0.938	13.06	0.010	12.73	27.34	46.7	0.245
2/25/2025 2:00	15.9	8.86	321	3.83	216	0.00	5.17	4.53	0.564	0.938	1.01	0.010	0.69	7.98	46.7	0.072
2/25/2025 3:00	17.7	8.72	311	3.92	215	0.00	5.40	4.96	0.564	0.938	17.69	0.010	17.37	8.17	46.6	0.072
2/25/2025 4:00	19.8	8.76	314	3.83	215	0.00	5.30	5.59	0.564	0.938	54.95	0.010	54.63	7.98	46.6	0.071
2/25/2025 5:00	13.0	9.46	354	3.75	216	0.00	7.33	3.97	0.564	0.938	-21.59	0.010	0.00	7.93	46.6	0.071
2/25/2025 6:00	14.8	9.16	349	3.64	215	0.00	7.16	4.35	0.564	0.938	3.10	0.010	2.78	7.38	46.6	0.066
2/25/2025 7:00	15.2	9.03	340	3.71	215	0.00	7.57	4.41	0.564	0.938	2.19	0.010	1.86	8.26	46.6	0.074
2/25/2025 8:00	17.6	8.81	322	3.73	216	0.00	7.42	4.99	0.564	0.938	29.99	0.010	29.66	7.59	46.6	0.069
2/25/2025 9:00	15.1	9.19	348	3.62	216	0.00	7.55	4.47	0.564	0.938	9.63	0.010	9.31	8.44	46.6	0.077
2/25/2025 10:00	15.4	9.17	351	3.65	216	0.00	7.44	4.56	0.564	0.938	12.17	0.010	11.85	6.68	46.6	0.061
2/25/2025 11:00	16.1	8.61	312	3.67	215	0.00	7.58	4.47	0.564	0.938	7.17	0.010	6.85	5.50	46.6	0.050
2/25/2025 12:00	15.8	8.75	315	3.78	215	0.00	7.31	4.45	0.564	0.938	-0.60	0.010	0.00	3.30	46.6	0.030
2/25/2025 13:00	15.4	8.77	324	3.60	216	0.00	7.54	4.36	0.564	0.938	6.11	0.010	5.79	3.72	46.6	0.034
2/25/2025 14:00	14.8	8.76	325	3.57	216	0.00	7.44	4.17	0.564	0.938	-2.01	0.010	0.00	4.34	46.6	0.039
2/25/2025 15:00	11.2	8.73	329	3.44	215	0.00	7.18	3.14	0.564	0.938	-45.43	0.010	0.00	3.73	46.6	0.033
2/25/2025 16:00	15.1	8.63	321	3.66	215	0.00	7.59	4.19	0.564	0.938	-6.22	0.010	0.00	2.15	46.6	0.019
2/25/2025 17:00	14.3	8.81	319	3.63	215	0.00	7.26	4.05	0.564	0.938	-11.42	0.010	0.00	1.91	46.6	0.017
2/25/2025 18:00	11.8	8.73	325	3.72	216	0.00	7.55	3.33	0.564	0.938	-52.67	0.010	0.00	2.49	46.5	0.022
2/25/2025 19:00	13.3	8.91	326	3.63	215	0.00	7.20	3.81	0.564	0.938	-23.58	0.010	0.00	2.74	46.5	0.024
2/25/2025 20:00	14.7	8.97	325	3.73	215	0.00	7.20	4.24	0.564	0.938	-7.83	0.010	0.00	2.90	46.5	0.026
2/25/2025 21:00	11.5	8.92	347	3.61	215	0.00	7.32	3.30	0.564	0.938	-45.93	0.010	0.00	3.54	46.5	0.032
2/25/2025 22:00	16.8	9.35	359	3.63	215	0.00	7.41	5.06	0.564	0.938	36.84	0.010	36.51	5.03	46.5	0.046
2/25/2025 23:00	17.2	8.97	340	3.76	216	0.00	7.57	4.96	0.564	0.938	25.74	0.010	25.42	7.47	46.5	0.069
2/26/2025 0:00	15.7	8.72	312	3.76	216	0.00	7.21	4.42	0.564	0.938	-0.43	0.010	0.00	11.17	46.5	0.102
2/26/2025 1:00	16.4	8.79	321	3.86	215	0.00	7.12	4.64	0.564	0.938	4.25	0.010	3.92	17.81	46.5	0.164
2/26/2025 2:00	16.8	8.89	318	3.82	216	0.00	7.14	4.80	0.564	0.938	15.42	0.010	15.10	21.59	46.5	0.197
2/26/2025 3:00	16.1	8.70	315	3.78	215	0.00	7.58	4.50	0.564	0.938	2.31	0.010	1.99	21.82	46.5	0.199
2/26/2025 4:00	15.7	8.78	317	3.74	216	0.00	7.53	4.45	0.564	0.938	1.77	0.010	1.44	22.24	46.5	0.202
2/26/2025 5:00	19.2	8.94	324	3.76	215	0.00	7.13	5.54	0.564	0.938	55.39	0.010	55.06	24.77	46.5	0.225
2/26/2025 6:00	17.1	8.71	313	3.83	215	0.00	7.56	4.80	0.564	0.938	14.72	0.010	14.40	26.94	46.5	0.246
2/26/2025 7:00	21.1	8.80	323	3.82	215	0.00	7.40	5.96	0.564	0.938	73.34	0.010	73.01	27.24	46.5	0.248
2/26/2025 8:00	14.0	8.80	324	3.83	215	0.00	7.06	3.97	0.564	0.938	-27.29	0.010	0.00	23.90	46.5	0.219
2/26/2025 9:00	15.8	8.88	323	3.65	215	0.00	7.41	4.51	0.564	0.938	10.26	0.010	9.93	21.13	46.5	0.191
2/26/2025 10:00	11.8	8.50	305	3.72	215	0.00	7.33	3.24	0.564	0.938	-59.63	0.010	0.00	13.55	46.5	0.123
2/26/2025 11:00	14.0	8.59	306	3.52	215	0.00	7.33	3.87	0.564	0.938	-14.85	0.010	0.00	8.13	46.4	0.073
2/26/2025 12:00	14.0	8.81	319	3.52	215	0.00	7.58	3.97	0.564	0.938	-9.11	0.010	0.00	5.09	46.4	0.046
2/26/2025 13:00	16.5	9.15	340	3.70	215	0.00	7.46	4.85	0.564	0.938	23.98	0.010	23.66	5.38	46.4	0.049
2/26/2025 14:00	14.7	8.73	313	3.59	216	0.00	7.17	4.15	0.564	0.938	-4.07	0.010	0.00	9.86	46.4	0.090
2/26/2025 15:00	14.7	8.57	314	3.60	215	0.00	7.48	4.07	0.564	0.938	-8.89	0.010	0.00	14.05	46.4	0.128
2/26/2025 16:00	11.5	8.93	336	3.46	216	0.00	7.48	3.31	0.564	0.938	-37.28	0.010	0.00	16.12	46.4	0.146
2/26/2025 17:00	15.1	9.07	345	3.34	216	0.00	7.27	4.41	0.564	0.938	22.92	0.010	22.59	11.82	46.4	0.107
2/26/2025 18:00	9.8	9.16	348	3.28	215	0.00	7.51	2.88	0.564	0.938	-47.33	0.010	0.00	6.58	46.4	0.060
2/26/2025 19:00	13.0	8.77	320	3.40	216	0.00	7.39	3.66	0.564	0.938	-17.35	0.010	0.00	5.09	46.4	0.046
2/26/2025 20:00	12.2	8.70	325	3.34	216	0.00	7.12	3.42	0.564	0.938	-25.96	0.010	0.00	6.96	46.4	0.064
2/26/2025 21:00	15.1	8.67	322	3.24	216	0.00	7.40	4.22	0.564	0.938	19.76	0.010	19.43	7.20	46.4	0.066
2/26/2025 22:00	11.9	8.88	316	3.34	215	0.01	7.56	3.40	0.564	0.938	-27.57	0.010	0.00	5.36	46.4	0.048
2/26/2025 23:00	15.6	8.94	323	3.55	215	0.00	7.22	4.48	0.564	0.938	15.18	0.010	0.01	3.19	46.4	0.029
2/27/2025 0:00	11.6	8.71	318	3.78	216	0.00	7.43	3.24	0.564	0.938	-61.48	0.010	0.00	2.01	46.4	0.018
2/27/2025 1:00	15.9	9.03	332	3.98	215	0.00	7.34	4.64	0.564	0.938	-2.32	0.010	0.00	1.71	46.3	0.016
2/27/2025 2:00	18.1	8.55	299	4.04	216	0.00	7.41	4.98	0.564	0.938	11.76	0.010	0.00	1.76	46.3	0.016
2/27/2025 3:00	19.7	8.81	317	4.10	215	0.00	7.28	5.59	0.564	0.938	38.75	0.010	23.58	9.89	46.3	0.090
2/27/2025 4:00	20.2	8.80	310	4.02	216	0.00	7.09	5.72	0.564	0.938	50.20	0.010	35.03	13.45	46.3	0.122
2/27/2025 5:00	18.5	8.90	325	4.02	215	0.00	7.59	5.31	0.564	0.938	28.57	0.010	13.40	18.05	46.3	0.164
2/27/2025 6:00	19.5	8.72	315	3.97	216	0.00	7.47	5.48	0.564	0.938	40.87	0.010	25.70	12.01	46.3	0.109
2/27/2025 7:00	21.7	9.20	353	3.96	215	0.00	7.13	6.44	0.564	0.938	83.71	0.010	68.54	20.09	46.3	0.182
2/27/2025 8:00	12.5	9.28	348	4.00	215	0.00	7.27	3.74	0.564	0.938	-46.27	0.010	0.00	31.01	46.3	0.280
2/27/2025 9:00	15.5	9.09	340	3.94	215	0.00	7.58	4.53	0.564	0.938	-5.51	0.010	0.00	29.32	46.3	0.259
2/27/2025 10:00	16.3	8.87	321	3.99	215	0.00	7.56	4.66	0.564	0.938	-2.01	0.010	0.00	17.04	46.3	0.153
2/27/2025 11:00	14.9	8.90	332	4.13	216	0.00	7.44	4.26	0.564	0.938	-29.88	0.010	0.00	0.45	46.3	0.004
2/27/2025 12:00	11.6	8.55	306	3.81	215	0.00	7.53	3.20	0.564	0.938	-66.89	0.010	0.00	0.03	46.3	0.000
2/27/2025 13:00	17.8	8.72	317	3.75	216	0.00	7.38	5.01	0.564	0.938	29.66	0.010	14.49	3.22	46.3	0.029
2/27/2025 14:00	13.8	9.08	345	3.71	215	0.00	7.15	4.04	0.564	0.938	-16.19	0.010	0.00	3.60	46.3	0.032
2/27/2025 15:00	12.3	9.08	341	3.64	215	0.00	7.55	3.59	0.564	0.938	-33.96	0.010	0.00	3.79	46.3	0.034
2/27/2025 16:00	14.2	8.98	332	3.65	216	0.00	7.43	4.09	0.564	0.938	-9.89	0.010	0.00	0.64	46.3	0.006
2/27/2025 17:00	15.8	8.83	317	3.64	216	0.00	7.36	4.50	0.564	0.938	10.88	0.010	0.00	0.26	46.3	0.002
2/27/2025 18:00	11.2	8.95	348	3.55	215	0.00	7.32	3.22	0.564	0.938	-46.28	0.010	0.00	0.07	46.2	0.001
2/27/2025 19:00	10.4	8.76	309	3.49	224	0.00	7.23	2.94	0.564	0.938	-59.19	0.010	0.00	0.09	46.2	0.001
2/27/2025 20:00	11.9	9.05	312	3.51	224	0.00	7.30	3.46	0.564	0.938	-34.03	0.010	0.00	0.24	46.2	0.002
2/27/2025 21:00	11.5	9.12	315	3.51	225	0.00	7.56	3.38	0.564	0.938	-38.00	0.010	0.00	0.24	46.2	0.002
2/27/2025 22:00	11.5	9.15	325	3.61	224	0.00	7.25	3.39	0.564	0.938	-42.08	0.010	0.00	0.25	46.2	0.002
2/27/2025 23:00	13.7	9.02	312	3.69	225	0.00	7.45	3.97	0.564	0.938	-19.14	0.010	0.00	0.10	46.2	0.001
2/28/2025 0:00	13.0	9.24	330	3.66	224	0.00	7.34	3.85	0.564	0.938	-22.72	0.010	0.00	0.22	46.2	0.002
2/28/2025 1:00	11.9	9.03	324	3.71	225	0.00	7.37	3.45	0.564	0.938	-45.64	0.010	0.00	0.28	46.2	0.003
2/28/2025 2:00	12.5	8.92	315	3.73	225	0.00	7.23	3.60	0.564	0.938	-39.54	0.010	0.00	0.33	46.2	0.003
2/28/2025 3:00	10.8	9.37	357	3.60	225	0.00	7.65	3.25	0.564	0.938	-45.96	0.010	0.00	0.27	46.2	0.002
2/28/2025 4:00	14.0	9.25	346	3.77	225	0.00	7.51	4.16	0.564	0.938	-13.58	0.010	0.00	0.11	46.2	0.001

Fuel Gas H2S Estimation

**H2S concentration in Fuel Gas is estimated using the best available data and operating information for heat and material balances, supported by the lab analysis of manual sampling.*

**For Hydrobon/Platformer fired heaters, the SO2 emissions are estimated using the measured average fuel gas flow rate and the estimated H2S concentration in the Fuel Gas.*

Date and Time	North Stack SO2	North Stack Flow	Boiler 9 Fuel Gas	Boiler 9 Fuel Oil	Boiler 13 Fuel Gas	Boiler 13 Fuel Oil	LPG Vapourization Rate	Total Boilers Sulphur Emission	LRF Sulphur Content	LRF Density	Raw Estimated Fuel Gas H2S Concentration	Lab Result Fuel Gas H2S Concentration	Corrected Estimated Fuel Gas H2S Concentration	3hr Rolling Average H2S Concentration	365 Day Rolling Average H2S Concentration	Heater SO2 Emissions
	ppmv	MMSCFH	MSCFH	GPM	MSCFH	GPM	MSCFH	kg/hr	%	kg/L	ppmv	ppmv	ppmv	ppmv	ppmv	kg/hr
2/28/2025 5:00	13.9	9.15	333	3.87	225	0.00	7.10	4.11	0.564	0.938	-21.88	0.010	0.00	0.17	46.2	0.002
2/28/2025 6:00	12.6	8.71	301	4.02	224	0.00	7.13	3.52	0.564	0.938	-62.37	0.010	0.00	0.33	46.1	0.003
2/28/2025 7:00	14.7	8.84	307	3.92	224	0.00	9.42	4.18	0.564	0.938	-22.07	0.010	0.00	0.50	46.1	0.005
2/28/2025 8:00	20.3	8.89	310	3.96	224	0.00	9.02	5.81	0.564	0.938	57.74	0.010	42.57	5.59	46.1	0.051
2/28/2025 9:00	19.8	8.72	312	3.79	224	0.00	9.17	5.57	0.564	0.938	56.07	0.010	40.90	15.32	46.1	0.142
2/28/2025 10:00	19.5	8.96	332	3.77	224	0.00	9.13	5.63	0.564	0.938	57.82	0.010	42.65	24.98	46.1	0.231
2/28/2025 11:00	17.0	8.80	318	3.71	225	0.00	9.46	4.81	0.564	0.938	21.46	0.010	6.29	29.61	46.1	0.271
2/28/2025 12:00	14.1	8.95	316	3.69	224	0.00	9.30	4.07	0.564	0.938	-13.73	0.010	0.00	24.41	46.1	0.219
2/28/2025 13:00	18.1	9.03	323	3.71	224	0.00	9.39	5.27	0.564	0.938	44.30	0.010	29.13	19.72	46.1	0.178
2/28/2025 14:00	17.4	8.90	324	4.13	224	0.00	9.15	4.98	0.564	0.938	5.95	0.010	0.00	14.16	46.1	0.129
2/28/2025 15:00	18.6	9.10	327	4.04	225	0.00	8.91	5.44	0.564	0.938	33.06	0.010	17.89	13.34	46.1	0.122
2/28/2025 16:00	18.2	8.82	311	3.91	224	0.00	8.86	5.18	0.564	0.938	28.65	0.010	13.48	13.06	46.1	0.117
2/28/2025 17:00	20.4	8.72	306	3.91	224	0.00	9.45	5.74	0.564	0.938	57.81	0.010	42.64	21.85	46.1	0.196
2/28/2025 18:00	19.8	8.82	314	3.91	225	0.00	9.34	5.62	0.564	0.938	50.74	0.010	35.57	27.47	46.1	0.246
2/28/2025 19:00	19.4	8.55	282	4.00	224	0.00	8.90	5.35	0.564	0.938	33.90	0.010	18.73	32.07	46.1	0.283
2/28/2025 20:00	21.3	8.65	280	3.99	224	0.00	8.84	5.94	0.564	0.938	67.21	0.010	52.04	29.21	46.1	0.259
2/28/2025 21:00	21.3	8.70	288	3.98	225	0.00	9.34	5.97	0.564	0.938	67.78	0.010	52.61	28.13	46.1	0.244
2/28/2025 22:00	20.2	8.64	287	4.09	224	0.00	9.41	5.61	0.564	0.938	41.59	0.010	26.42	31.05	46.1	0.274
2/28/2025 23:00	16.5	8.66	296	4.06	224	0.00	9.00	4.60	0.564	0.938	-9.65	0.010	0.01	26.15	46.1	0.227
3/1/2025 0:00	20.9	8.67	294	4.02	224	0.00	9.01	5.83	0.564	0.938	57.16	0.010	66.82	26.64	46.1	0.235
3/1/2025 1:00	18.4	8.79	289	4.06	224	0.00	8.93	5.20	0.564	0.938	21.48	0.010	31.14	26.87	46.1	0.236
3/1/2025 2:00	14.7	8.94	301	4.09	225	0.00	9.14	4.22	0.564	0.938	-30.84	0.010	0.00	29.30	46.1	0.262
3/1/2025 3:00	15.8	9.11	325	4.04	225	0.00	9.16	4.63	0.564	0.938	-6.24	0.010	3.42	28.65	46.1	0.257
3/1/2025 4:00	17.9	9.30	323	4.11	225	0.00	8.94	5.37	0.564	0.938	26.02	0.010	35.68	23.61	46.1	0.215
3/1/2025 5:00	17.2	9.40	347	4.05	225	0.00	9.45	5.20	0.564	0.938	20.13	0.010	29.80	29.99	46.1	0.271
3/1/2025 6:00	23.6	9.66	362	4.28	224	0.00	9.43	7.35	0.564	0.938	106.32	0.010	115.98	42.43	46.1	0.388
3/1/2025 7:00	23.5	9.74	356	4.23	229	0.00	9.46	7.38	0.564	0.938	111.02	0.010	120.68	60.25	46.1	0.556
3/1/2025 8:00	19.1	9.27	328	4.43	229	0.00	9.33	5.69	0.564	0.938	22.63	0.010	32.29	66.19	46.1	0.608
3/1/2025 9:00	18.6	9.28	325	4.39	229	0.00	8.86	5.55	0.564	0.938	18.21	0.010	27.87	58.29	46.1	0.543
3/1/2025 10:00	20.3	9.22	320	4.44	229	0.00	9.02	6.02	0.564	0.938	38.61	0.010	48.28	48.63	46.1	0.449
3/1/2025 11:00	22.2	9.24	321	4.46	229	0.00	9.07	6.60	0.564	0.938	66.16	0.010	75.82	49.41	46.1	0.447
3/1/2025 12:00	21.5	9.33	338	4.39	229	0.00	9.44	6.46	0.564	0.938	61.41	0.010	71.07	56.90	46.1	0.528
3/1/2025 13:00	22.5	9.10	320	4.25	229	0.00	9.14	6.59	0.564	0.938	78.27	0.010	87.93	73.29	46.1	0.673
3/1/2025 14:00	25.1	9.30	329	4.39	229	0.00	9.36	7.52	0.564	0.938	114.00	0.010	123.66	85.82	46.1	0.789
3/1/2025 15:00	21.5	9.19	321	4.43	229	0.00	9.36	6.37	0.564	0.938	56.38	0.010	66.04	92.95	46.1	0.850
3/1/2025 16:00	24.7	9.40	346	4.48	229	0.00	9.32	7.48	0.564	0.938	103.48	0.010	113.15	88.54	46.1	0.814
3/1/2025 17:00	20.5	9.66	356	4.52	229	0.00	8.87	6.38	0.564	0.938	48.81	0.010	58.47	77.41	46.1	0.719
3/1/2025 18:00	21.9	9.70	364	4.49	229	0.00	9.27	6.84	0.564	0.938	71.07	0.010	80.73	69.42	46.1	0.647
3/1/2025 19:00	21.5	9.37	343	4.51	229	0.00	8.86	6.48	0.564	0.938	55.14	0.010	64.80	64.34	46.1	0.599
3/1/2025 20:00	17.7	9.71	352	4.48	229	0.00	8.98	5.54	0.564	0.938	11.94	0.010	21.60	66.59	46.1	0.618
3/1/2025 21:00	19.1	9.50	339	4.56	229	0.00	9.29	5.85	0.564	0.938	22.74	0.010	32.40	61.49	46.1	0.569
3/1/2025 22:00	19.7	9.33	328	4.59	229	0.00	10.61	5.92	0.564	0.938	24.53	0.010	34.19	52.00	46.1	0.484
3/1/2025 23:00	21.6	9.58	346	4.69	229	0.00	11.18	6.65	0.564	0.938	53.20	0.010	62.86	41.61	46.1	0.390
3/2/2025 0:00	18.6	9.59	348	4.64	229	0.00	11.27	5.75	0.564	0.938	13.30	0.010	22.96	35.28	46.1	0.328
3/2/2025 1:00	16.1	9.62	343	4.58	229	0.00	11.28	5.00	0.564	0.938	-19.11	0.010	0.00	35.16	46.1	0.326
3/2/2025 2:00	19.6	9.41	335	4.57	229	0.00	10.73	5.95	0.564	0.938	27.38	0.010	37.04	28.67	46.1	0.268
3/2/2025 3:00	14.7	9.40	330	4.63	229	0.00	11.18	4.46	0.564	0.938	-48.52	0.010	0.00	29.78	46.1	0.277
3/2/2025 4:00	22.4	9.43	328	4.63	229	0.00	10.66	6.79	0.564	0.938	65.07	0.010	74.73	31.48	46.1	0.292
3/2/2025 5:00	23.2	9.17	318	4.75	229	0.00	10.72	6.85	0.564	0.938	61.93	0.010	71.59	46.37	46.1	0.437
3/2/2025 6:00	17.8	9.18	313	4.67	229	0.00	10.97	5.27	0.564	0.938	-11.42	0.010	0.00	53.25	46.1	0.503
3/2/2025 7:00	21.5	8.98	298	4.66	229	0.00	10.61	6.21	0.564	0.938	36.86	0.010	46.53	46.74	46.1	0.437
3/2/2025 8:00	20.2	9.05	307	4.74	229	0.00	11.39	5.89	0.564	0.938	15.35	0.010	25.01	32.69	46.1	0.309
3/2/2025 9:00	20.2	8.97	310	4.67	229	0.00	7.16	5.83	0.564	0.938	16.21	0.010	25.87	22.05	46.1	0.209
3/2/2025 10:00	19.2	9.17	313	4.65	229	0.00	7.23	5.66	0.564	0.938	8.53	0.010	18.19	20.37	46.1	0.190
3/2/2025 11:00	15.9	9.04	315	4.59	229	0.00	7.61	4.64	0.564	0.938	-38.14	0.010	0.00	17.37	46.1	0.159
3/2/2025 12:00	22.3	8.95	315	4.47	230	0.00	7.47	6.44	0.564	0.938	58.24	0.010	67.90	14.49	46.1	0.137
3/2/2025 13:00	21.0	8.94	318	4.41	230	0.00	7.56	6.04	0.564	0.938	41.47	0.010	51.13	27.03	46.1	0.256
3/2/2025 14:00	21.3	8.84	311	4.38	229	0.00	7.31	6.05	0.564	0.938	44.31	0.010	53.97	37.70	46.1	0.360
3/2/2025 15:00	18.5	8.91	353	4.39	230	0.01	7.05	5.31	0.564	0.938	6.32	0.010	15.98	52.00	46.1	0.509
3/2/2025 16:00	17.4	8.92	313	4.42	230	0.00	9.32	5.00	0.564	0.938	-10.60	0.010	0.00	39.65	46.1	0.370
3/2/2025 17:00	17.1	8.99	326	4.39	229	0.00	9.37	4.95	0.564	0.938	-11.43	0.010	0.00	28.05	46.1	0.261
3/2/2025 18:00	19.0	9.09	324	4.37	229	0.00	9.43	5.55	0.564	0.938	19.49	0.010	29.15	15.04	46.1	0.141
3/2/2025 19:00	15.2	9.42	351	4.38	229	0.00	9.49	4.62	0.564	0.938	-25.26	0.010	0.00	12.69	46.1	0.118
3/2/2025 20:00	16.7	9.32	352	4.40	229	0.00	8.80	5.03	0.564	0.938	-7.56	0.010	2.10	9.87	46.1	0.094
3/2/2025 21:00	11.4	9.57	346	4.35	229	0.00	8.96	3.52	0.564	0.938	-75.79	0.010	0.00	6.52	46.1	0.061
3/2/2025 22:00	16.0	8.88	324	4.28	230	0.00	8.86	4.58	0.564	0.938	-22.52	0.010	0.00	3.06	46.0	0.029
3/2/2025 23:00	15.4	8.89	310	4.27	229	0.01	8.90	4.40	0.564	0.938	-32.05	0.010	0.00	1.66	46.0	0.016
3/3/2025 0:00	13.2	9.15	321	4.22	229	0.00	9.33	3.88	0.553	0.940	-49.40	0.010	0.00	1.20	46.0	0.011
3/3/2025 1:00	18.2	9.16	315	4.20	229	0.00	9.00	5.35	0.553	0.940	24.40	0.010	34.06	19.96	46.0	0.183
3/3/2025 2:00	19.5	9.24	313	4.29	229	0.00	8.91	5.81	0.553	0.940	42.46	0.010	52.12	31.61	46.0	0.291
3/3/2025 3:00	17.8	9.04	308	4.32	230	0.00	9.32	5.18	0.553	0.940	9.28	0.010	18.94	43.26	46.0	0.396
3/3/2025 4:00	18.8	8.99	304	4.26	229	0.00	9.40	5.45	0.553	0.940	26.31	0.010	35.97	34.62	46.0	0.319
3/3/2025 5:00	20.5	8.96	304	4.18	229	0.00	9.41	5.93	0.553	0.940	55.30	0.010	64.96	32.48	46.0	0.300
3/3/2025 6:00	20.4	9.08	305	4.19	229	0.00	9.51	5.96	0.553	0.940	56.26	0.010	65.92	30.21	46.0	0.277
3/3/2025 7:00	18.9	9.12	306	4.15	229	0.00	7.43	5.55	0.553	0.940	37.54	0.010	47.21	33.76	46.0	0.311
3/3/2025 8:00	17.2	9.02	320	4.07	229	0.00	7.27	4.98	0.553	0.940	13.25	0.010	22.91	32.06	46.0	0.295
3/3/2025 9:00	14.7	8.90	330	4.10	229	0.00	7.51	4.21	0.553	0.940	-26.05	0.010	0.00	25.37	46.0	0.238
3/3/2025 10:00	17.9	8.98	318	4.07	229	0.01	7.13	5.17	0.553	0.940	22.23	0.010	31.89	12.51	46.0	0.116
3/3/2025 11:00	15.0	9.18	340	3.98	229	0.00	7.08	4.43	0.553	0.940	-8.40	0.010	1.26	7.88	46.0	0.075
3/3/2025 12:00	18.6	9.08	335	3.97	229	0.00	7.24	5.43	0.553	0.940	40.12	0.010	49.78	9.95	46.0	0.093
3/3/2025 13:00	14.3	9.17	344	3.90	229	0.00	7.59	4.22	0.553	0.940	-13.85	0.010	0.00	11.48	46.0	0.107
3/3/2025 14:00	14.7	8.90	299	3.87	229	0.00	7.30	4.22	0.553	0.940	-13.16	0.010	0.00	11.07	46.0	0.100
3/3/2025 15:00	13.6	9.02	306	4.09	229	0.00	7.04	3.96	0.553	0.940	-38.98	0.010	0.00	7.99	46.0	0.073
3/3/2025 16:00	13.6	8.82	314	4.07	229	0.00	7.25	3.87	0.553	0.940	-41.74	0.010	0.00	7.23	46.0	0.066
3/3/2025 17:00	14.4	9.07	321	3.96	229	0.00	7.30	4.21	0.553	0.940	-18.57	0.010	0.00	5.37	46.0	0.049
3/3/2025 18:00	14.1	8.99	313	4.03	229	0.00	7.06	4.07	0.553	0.940	-29.80	0.010	0.00	5.17	46.0	0.046
3/3/2025 19:00	16.3	9.28	339	4.01	229	0.00	7.17	4.87	0.553	0.940	10.96	0.010	20.62	8.15	46.0	0.075
3/3/2025 20:00	19.1	9.09	321	4.07	230	0.00	7.40	5.58	0.553	0.940	42.78	0.010	52.44	9.10	46.0	0.084
3/3/2025 21:00	16.2	8.87	309	3.82	229	0.01	7.36	4.62	0.553	0.940	9.35	0.010	19.01	9.90	46.0	0.090
3/3/2025 22:00	12.6	9.19	327	3.99	229	0.00	7.14	3.73	0.553	0.940	-43.02	0.010	0.00	5.31	45.9	0.049
3/3/2025 23:00	12.6	9.16	314	3.98	229	0.00	7.62	3.72	0.553	0.940	-43.73	0.010	0.01	3.39	45.9	0.031
3/4/2025 0:00	13.2	9.68	355	3.94	229	0.00	7.24	4.11	0.553	0.940	-20.74	0.010	23.00	5.76	45.9	0.053
3/4/2025 1:00	10.8	9.19	333	3.94	230	0.00	7.17	3.20	0.553	0.940	-65.18	0.010	0.00	9.20	45.9	0.085
3/4/2025 2:00	13.2	9.21	337	3.93	229	0.00	7.18	3.93	0.553	0.940	-29.62	0.010	14.12	11.65	45.9	0.106
3/4/2025 3:00	12.6	9.06	323	3.96	229	0.00	7.35	3.68	0.553	0.940	-44.01	0.010	0.00	9.63	45.9	0.088
3/4/2025 4:00	12.3	9.25	338	3.89	229	0.00	7.15	3.67	0.553	0.940	-39.91	0.010	3.83	7.75	45.9	0.071
3/4/2025 5:00	10.1	8.93	308	3.84	229	0.00	7.08	2.91	0.553	0.940	-76.93	0.010	0.00	6.96	45.9	0.063
3/4/2025 6:00	9.8	8.92	311	3.82	229	0.00	7.63	2.80	0.553	0.940	-81.16	0.010	0.00	5.36	45.9	0.049
3/4/2025 7:00	11.9	8.81	300	4.01	229	0.00	7.34	3.37	0.553	0.940	-64.45	0.010	0.00	3.63	45.9	0.033
3/4/2025 8:00	14.6	8.84	305	4.00	229	0.00	7.51	4.15	0.553	0.940	-24.24	0.010	19.49	10.53	45.9	0.095
3/4/2025 9:00	16.7	8.94	307	3.94	229	0.00	7.50	4.81	0.553	0.940	12.40	0.010	56.14	24.56	45.9	0.226
3/4/2025 10:00	18.8	8.77	301	3.89	229	0.00	7.13	5.30	0.553	0.940	40.88	0.010	84.62	40.38	45.9	0.367
3/4/2025 11:00	15.6	8.92	310	3.81	229	0.00	7.58	4.49	0.553	0.940	3.93	0.010	47.67	47.35	45.9	0.433
3/4/2025 12:00	14.6	8.84	329	3.89	229	0.00	7.19	4.14	0.553	0.940	-17.47	0.010	26.27	47.50	45.9	0.441
3/4/2025 13:00	16.0	8.77	300	3.93	229	0.00	7.61	4.52	0.553	0.940	-1.15	0.010	42.59	48.88	45.9	0.449
3/4/2025 14:00	14.2	9.20	334	3.92	229	0.00	7.10	4.21	0.553	0.940	-15.19	0.010	28.55	51.62	45.9	0.469
3/4/2025 15:00	15.0	9.22	334	3.94	229	0.00	7.14	4.45	0.553	0.940	-5.31	0.010	38.43	50.19	45.9	0.456
3/4/2025 16:00	16.8	9.00	334	3.87	230	0.00	7.22	4.88	0.553	0.940	19.09	0.010	62.82	45.13	45.9	0.413
3/4/2025 17:00	13.3	8.75	296	3.80	229	0.00	7.10	3.74	0.553	0.940	-33.83	0.010	9.91	37.62	45.9	0.340
3/4/2025 18:00	15.7	8.83	305	3.82	229	0.00	7.60	4.46	0.553	0.940	1.68	0.010	45.41	33.73	45.9	0.306
3/4/2025 19:00	13.5	8.80	300	3.95	229	0.00	7.56	3.83	0.553	0.940	-37.76	0.010	5.97	29.91	45.9	0.268
3/4/2025 20:00	19.0	8.82	307	4.02	229	0.00	7.31	5.41	0.553	0.940	37.99	0.010	81.73	38.41	45.9	0.349
3/4/2025 21:00	23.6	8.79	301	4.07	230	0.00	7.54	6.69	0.553	0.940	100.78	0.010	144.52	65.79	45.9	0.596
3/4/2025 22:00	19.0	9.03	298	4.10	229	0.00	7.61	5.53	0.553	0.940	40.25	0.010	83.99	90.22	45.9	0.815
3/4/2025 23:00	23.3	8.68	290	4.19	230	0.00	7.60	6.52	0.553	0.940	87.08	0.010	130.81	106.74	45.9	0.971
3/5/2025 0:00	26.0	8.67	291	4.12	229	0.00	7.61	7.24	0.553	0.940	129.06	0.010	172.80	119.28	45.9	1.082
3/5/2025 1:00	27.5	8.59	296	4.06	229	0.00	7.44	7.61	0.553	0.940	149.54	0.010	193.28	163.20	46.0	1.492
3/5/2025 2:00	27.8	8.69	293	4.14	229	0.00	7.33	7.77	0.553	0.940	154.33	0.010	198.07	198.30	46.0	1.815
3/5/2025 3:00	27.2	8.92	323	4.05	229	0.00	7.31	7.82	0.553	0.940	153.41	0.010	197.15	211.70	46.0	1.924
3/5/2025 4:00	24.7	9.08	325	4.11	229	0.00	7.24	7.21	0.553	0.940	119.19	0.010	162.93	197.76	46.0	1.783
3/5/2025 5:00	23.5	9.12	322	4.16	229	0.00	7.50	6.90	0.553	0.940	102.01	0.010	145.75	175.15	46.0	1.590
3/5/2025 6:00	25.0	8.87	305	4.25	229	0.00	7.50	7.13	0.553	0.940	111.76	0.010	155.50	155.10	46.1	1.394
3/5/2025 7:00	26.5	8.94	315	4.23	229	0.00	7.55	7.63	0.553	0.940	135.54	0.010	179.27	150.62	46.1	1.354
3/5/2025 8:00	14.9	8.87	311	4.21	229	0.00	8.10	4.27	0.553	0.940	-30.17	0.010	13.57	128.51	46.1	1.161
3/5/2025 9:00	15.3	9.04	317	4.21	229	0.00	8.16	4.46	0.553	0.940	-20.34	0.010	23.40	100.77	46.1	0.914
3/5/2025 10:00	19.8	8.88	316	4.17	229	0.00	8.12	5.65	0.553	0.940	41.10	0.010	84.84	59.46	46.1	0.538
3/5/2025 11:00	20.5	8.80	307	4.14	229	0.00	8.32	5.81	0.553	0.940	51.91	0.010	95.65	58.60	46.1	0.527

Fuel Gas H2S Estimation

**H2S concentration in Fuel Gas is estimated using the best available data and operating information for heat and material balances, supported by the lab analysis of manual sampling.*

**For Hydrobon/Platformer fired heaters, the SO2 emissions are estimated using the measured average fuel gas flow rate and the estimated H2S concentration in the Fuel Gas.*

Date and Time	North Stack SO2	North Stack Flow	Boiler 9 Fuel Gas	Boiler 9 Fuel Oil	Boiler 13 Fuel Gas	Boiler 13 Fuel Oil	LPG Vapourization Rate	Total Boilers Sulphur Emission	LRF Sulphur Content	LRF Density	Raw Estimated Fuel Gas H2S Concentration	Lab Result Fuel Gas H2S Concentration	Corrected Estimated Fuel Gas H2S Concentration	3hr Rolling Average H2S Concentration	365 Day Rolling Average H2S Concentration	Heater SO2 Emissions
	ppmv	MMSCFH	MSCFH	GPM	MSCFH	GPM	MSCFH	kg/hr	%	kg/L	ppmv	ppmv	ppmv	ppmv	ppmv	kg/hr
3/5/2025 12:00	22.1	8.97	317	4.06	229	0.00	8.34	6.37	0.553	0.940	82.56	0.010	126.30	73.51	46.1	0.660
3/5/2025 13:00	22.9	9.00	321	4.10	229	0.00	8.18	6.63	0.553	0.940	92.37	0.010	136.11	103.51	46.1	0.933
3/5/2025 14:00	23.1	8.58	297	4.07	229	0.00	8.01	6.38	0.553	0.940	85.86	0.010	129.60	126.37	46.1	1.141
3/5/2025 15:00	21.9	9.10	331	3.99	229	0.00	8.12	6.41	0.553	0.940	86.50	0.010	130.24	146.91	46.2	1.320
3/5/2025 16:00	19.6	9.05	327	4.02	229	0.00	8.22	5.70	0.553	0.940	50.99	0.010	94.73	141.47	46.2	1.269
3/5/2025 17:00	19.2	9.17	330	3.98	229	0.00	8.36	5.67	0.553	0.940	51.65	0.010	95.38	133.14	46.2	1.194
3/5/2025 18:00	23.0	9.04	325	3.98	229	0.00	8.05	6.69	0.553	0.940	101.73	0.010	145.47	120.51	46.2	1.079
3/5/2025 19:00	21.8	9.15	330	3.94	229	0.00	8.11	6.43	0.553	0.940	90.40	0.010	134.14	128.75	46.2	1.155
3/5/2025 20:00	22.5	8.90	324	3.86	229	0.00	8.52	6.46	0.553	0.940	97.35	0.010	141.09	134.42	46.2	1.217
3/5/2025 21:00	22.2	9.06	328	3.79	229	0.00	8.49	6.47	0.553	0.940	101.36	0.010	145.10	136.08	46.2	1.231
3/5/2025 22:00	23.2	9.32	334	3.75	229	0.00	8.19	6.97	0.553	0.940	125.91	0.010	169.64	124.97	46.3	1.113
3/5/2025 23:00	19.5	9.20	331	3.78	229	0.00	8.05	5.78	0.553	0.940	67.99	0.170	0.17	116.31	46.2	1.045
3/6/2025 0:00	19.5	9.06	324	3.73	229	0.00	8.22	5.70	0.553	0.940	67.80	0.170	0.00	81.33	46.2	0.730
3/6/2025 1:00	19.6	9.09	331	3.73	229	0.00	8.48	5.74	0.553	0.940	68.71	0.170	0.89	51.24	46.2	0.462
3/6/2025 2:00	23.7	9.05	328	3.80	229	0.00	8.46	6.90	0.553	0.940	121.17	0.170	53.35	18.95	46.2	0.172
3/6/2025 3:00	19.9	9.23	330	3.84	229	0.00	8.41	5.92	0.553	0.940	71.63	0.170	3.81	19.06	46.2	0.171
3/6/2025 4:00	18.3	9.10	325	3.87	229	0.00	7.99	5.37	0.553	0.940	43.66	0.170	0.00	12.30	46.2	0.111
3/6/2025 5:00	20.6	9.13	325	3.90	229	0.00	8.36	6.06	0.553	0.940	75.77	0.170	7.95	10.73	46.2	0.096
3/6/2025 6:00	19.1	9.31	337	3.77	229	0.00	8.47	5.71	0.553	0.940	64.33	0.170	0.00	7.84	46.2	0.072
3/6/2025 7:00	23.1	9.33	344	3.76	229	0.00	8.26	6.95	0.553	0.940	122.90	0.170	55.08	10.74	46.2	0.098
3/6/2025 8:00	13.1	9.33	341	3.72	229	0.00	10.24	3.94	0.553	0.940	-17.68	0.170	0.00	14.89	46.2	0.135
3/6/2025 9:00	15.5	9.25	341	3.67	229	0.00	9.85	4.60	0.553	0.940	17.06	0.170	0.00	12.78	46.2	0.118
3/6/2025 10:00	11.0	9.37	336	3.64	229	0.00	12.27	3.33	0.553	0.940	-42.52	0.170	0.00	7.37	46.2	0.067
3/6/2025 11:00	10.3	9.59	362	3.61	229	0.00	12.10	3.17	0.553	0.940	-46.58	0.170	0.00	0.00	46.2	0.000
3/6/2025 12:00	14.6	9.65	360	3.67	229	0.00	11.59	4.54	0.553	0.940	13.39	0.170	0.00	0.00	46.2	0.000
3/6/2025 13:00	11.7	9.37	348	3.79	229	0.00	11.90	3.54	0.553	0.940	-39.92	0.170	0.00	0.00	46.2	0.000
3/6/2025 14:00	12.4	9.58	368	3.66	230	0.00	12.13	3.83	0.553	0.940	-18.28	0.170	0.00	0.00	46.2	0.000
3/6/2025 15:00	12.9	9.59	360	3.44	229	0.00	12.08	3.97	0.553	0.940	-0.08	0.170	0.00	0.00	46.1	0.000
3/6/2025 16:00	12.0	9.64	361	3.54	229	0.00	12.22	3.71	0.553	0.940	-17.97	0.170	0.00	0.00	46.1	0.000
3/6/2025 17:00	15.6	9.29	348	3.35	229	0.00	11.69	4.67	0.553	0.940	37.40	0.170	0.00	0.00	46.1	0.000
3/6/2025 18:00	12.7	9.38	357	3.04	229	0.00	9.78	3.85	0.553	0.940	14.99	0.170	0.00	0.19	46.1	0.002
3/6/2025 19:00	16.6	9.30	347	3.22	229	0.00	10.34	4.99	0.553	0.940	59.48	0.170	0.00	0.92	46.1	0.008
3/6/2025 20:00	15.2	9.66	357	3.21	229	0.00	10.46	4.74	0.553	0.940	47.64	0.170	0.00	1.18	46.1	0.011
3/6/2025 21:00	13.0	9.26	347	3.13	229	0.00	10.36	3.88	0.553	0.940	12.39	0.170	0.00	1.12	46.1	0.010
3/6/2025 22:00	17.0	9.39	346	3.15	229	0.00	8.05	5.15	0.553	0.940	70.56	0.170	2.74	1.53	46.1	0.014
3/6/2025 23:00	17.1	9.39	354	3.23	229	0.00	8.38	5.16	0.553	0.940	65.85	0.170	0.00	2.44	46.1	0.022
3/7/2025 0:00	14.9	9.44	351	3.21	229	0.00	8.40	4.52	0.553	0.940	37.32	0.170	0.00	2.81	46.1	0.026
3/7/2025 1:00	17.1	9.55	362	3.31	229	0.00	8.07	5.24	0.553	0.940	64.25	0.170	0.00	5.29	46.1	0.048
3/7/2025 2:00	15.2	9.36	357	3.38	230	0.00	8.47	4.58	0.553	0.940	30.59	0.170	0.00	6.01	46.1	0.055
3/7/2025 3:00	16.6	9.39	351	3.36	230	0.00	8.23	5.02	0.553	0.940	52.78	0.170	0.00	6.93	46.1	0.063
3/7/2025 4:00	18.1	9.45	354	3.32	229	0.00	8.12	5.50	0.553	0.940	76.68	0.170	8.86	5.43	46.0	0.050
3/7/2025 5:00	17.5	9.33	344	3.31	229	0.00	8.43	5.24	0.553	0.940	66.40	0.170	0.00	4.78	46.0	0.044
3/7/2025 6:00	16.7	9.30	352	3.34	229	0.00	7.35	4.99	0.553	0.940	52.34	0.170	0.00	3.79	46.0	0.035
3/7/2025 7:00	17.7	9.36	360	3.16	229	0.00	7.10	5.34	0.553	0.940	77.47	0.170	9.65	2.59	46.0	0.024
3/7/2025 8:00	9.2	9.50	357	3.03	229	0.00	7.46	2.83	0.553	0.940	-30.89	0.170	0.00	1.42	46.0	0.013
3/7/2025 9:00	7.4	9.78	396	2.40	229	0.00	7.30	2.34	0.553	0.940	-19.02	0.170	0.00	1.00	46.0	0.009
3/7/2025 10:00	10.7	9.51	360	2.59	229	0.00	7.40	3.28	0.553	0.940	12.58	0.170	0.00	0.09	46.0	0.001
3/7/2025 11:00	6.3	9.24	360	2.39	230	0.00	7.46	1.88	0.553	0.940	-40.68	0.170	0.00	0.00	46.0	0.000
3/7/2025 12:00	13.9	9.21	351	3.14	229	0.00	7.24	4.13	0.553	0.940	22.83	0.170	0.00	0.00	46.0	0.000
3/7/2025 13:00	9.6	9.40	356	2.78	229	0.00	7.07	2.91	0.553	0.940	-14.25	0.170	0.00	0.00	46.0	0.000
3/7/2025 14:00	12.1	9.30	356	2.87	230	0.00	7.48	3.63	0.553	0.940	14.25	0.170	0.00	0.07	46.0	0.001
3/7/2025 15:00	12.1	9.23	353	3.14	229	0.00	7.56	3.60	0.553	0.940	-1.32	0.170	0.00	0.07	46.0	0.001
3/7/2025 16:00	10.3	9.16	352	3.10	229	0.00	7.39	3.04	0.553	0.940	-25.82	0.170	0.00	0.07	46.0	0.001
3/7/2025 17:00	13.2	9.22	353	3.12	229	0.00	7.18	3.93	0.553	0.940	14.51	0.170	0.00	0.00	45.9	0.000
3/7/2025 18:00	11.1	9.22	346	3.18	230	0.00	7.59	3.28	0.553	0.940	-18.45	0.170	0.00	0.00	45.9	0.000
3/7/2025 19:00	14.0	9.24	351	3.03	229	0.00	5.23	4.16	0.553	0.940	30.46	0.170	0.00	0.01	45.9	0.000
3/7/2025 20:00	9.6	9.49	353	3.02	229	0.00	4.69	2.94	0.553	0.940	-25.85	0.170	0.00	0.01	45.9	0.000
3/7/2025 21:00	11.0	9.51	351	3.05	229	0.00	4.80	3.38	0.553	0.940	-7.01	0.170	0.00	0.01	45.9	0.000
3/7/2025 22:00	11.0	9.62	367	2.62	229	0.00	5.02	3.42	0.553	0.940	17.81	0.170	0.00	0.00	45.9	0.000
3/7/2025 23:00	11.1	9.62	366	2.82	229	0.00	4.51	3.44	0.553	0.940	7.94	0.010	0.01	0.00	45.9	0.000
3/8/2025 0:00	14.0	9.44	366	2.94	229	0.00	4.71	4.25	0.553	0.940	38.38	0.010	30.45	0.98	45.9	0.009
3/8/2025 1:00	11.8	9.31	351	2.94	229	0.00	4.79	3.52	0.553	0.940	5.31	0.010	0.00	3.02	45.9	0.028
3/8/2025 2:00	12.9	9.63	377	3.07	234	0.00	4.28	4.00	0.553	0.940	19.41	0.010	11.49	4.43	45.9	0.042
3/8/2025 3:00	14.3	9.54	362	3.10	234	0.00	4.54	4.39	0.553	0.940	36.30	0.010	28.37	5.15	45.9	0.048
3/8/2025 4:00	14.6	9.27	340	3.27	234	0.00	4.47	4.37	0.553	0.940	27.75	0.010	19.82	6.13	45.9	0.057
3/8/2025 5:00	12.9	9.26	348	3.45	230	0.00	4.70	3.83	0.553	0.940	-7.15	0.010	0.00	7.85	45.9	0.072
3/8/2025 6:00	14.3	9.25	346	3.46	230	0.00	4.25	4.25	0.553	0.940	11.33	0.010	3.40	10.61	45.9	0.098
3/8/2025 7:00	13.9	9.29	358	3.51	230	0.00	4.16	4.17	0.553	0.940	4.69	0.010	0.00	11.72	45.9	0.110
3/8/2025 8:00	12.1	9.26	344	3.50	230	0.00	4.78	3.61	0.553	0.940	-20.43	0.010	0.00	8.99	45.8	0.084
3/8/2025 9:00	10.7	9.38	352	3.43	229	0.00	4.78	3.22	0.553	0.940	-34.76	0.010	0.00	4.72	45.8	0.044
3/8/2025 10:00	11.8	9.35	358	3.35	229	0.00	4.54	3.55	0.553	0.940	-15.06	0.010	0.00	1.06	45.8	0.010
3/8/2025 11:00	13.2	9.30	351	3.37	229	0.00	4.75	3.97	0.553	0.940	3.14	0.010	0.00	0.69	45.8	0.006
3/8/2025 12:00	8.9	9.28	355	3.31	229	0.00	5.24	2.67	0.553	0.940	-53.54	0.010	0.00	0.72	45.8	0.007
3/8/2025 13:00	10.0	9.17	353	3.43	230	0.00	4.91	2.95	0.553	0.940	-47.10	0.010	0.00	0.75	45.8	0.007
3/8/2025 14:00	11.1	9.41	363	3.30	229	0.00	5.48	3.36	0.553	0.940	-20.73	0.010	0.00	1.06	45.8	0.010
3/8/2025 15:00	12.1	9.40	363	3.17	229	0.00	5.21	3.67	0.553	0.940	0.34	0.010	0.00	1.24	45.8	0.011
3/8/2025 16:00	15.4	9.26	351	4.05	229	0.00	4.78	4.59	0.553	0.940	-4.80	0.010	0.00	1.54	45.8	0.014
3/8/2025 17:00	19.4	9.29	336	5.14	230	0.00	9.40	5.81	0.553	0.940	-6.62	0.010	0.00	1.34	45.8	0.012
3/8/2025 18:00	16.8	9.51	360	5.55	229	0.00	9.29	5.15	0.553	0.940	-58.30	0.010	0.00	1.43	45.8	0.013
3/8/2025 19:00	22.7	9.78	359	5.63	229	0.00	9.07	7.16	0.553	0.940	29.82	0.010	21.90	2.31	45.8	0.021
3/8/2025 20:00	17.2	9.58	348	5.46	230	0.00	11.17	5.31	0.553	0.940	-47.55	0.010	0.00	2.99	45.8	0.028
3/8/2025 21:00	19.4	9.52	331	5.53	229	0.00	11.15	5.94	0.553	0.940	-21.81	0.010	0.00	3.24	45.8	0.030
3/8/2025 22:00	22.6	9.28	321	5.83	229	0.00	11.10	6.76	0.553	0.940	0.95	0.010	0.00	1.80	45.7	0.017
3/8/2025 23:00	21.2	9.27	309	6.11	229	0.00	10.98	6.32	0.553	0.940	-37.98	0.010	0.00	1.28	45.7	0.012
3/9/2025 0:00	21.3	9.25	318	6.14	229	0.00	10.81	6.33	0.553	0.940	-38.06	0.010	0.00	0.56	45.7	0.005
3/9/2025 1:00	22.2	9.45	322	6.30	229	0.00	11.16	6.77	0.553	0.940	-25.64	0.010	0.00	0.75	45.7	0.007
3/9/2025 3:00	21.9	9.15	296	6.25	229	0.00	11.39	6.46	0.553	0.940	-40.44	0.010	0.00	0.53	45.7	0.005
3/9/2025 4:00	22.0	9.21	299	6.20	229	0.00	10.87	6.52	0.553	0.940	-33.23	0.010	0.00	0.67	45.7	0.006
3/9/2025 5:00	22.7	8.88	300	6.23	229	0.00	10.72	6.49	0.553	0.940	-36.40	0.010	0.00	0.64	45.7	0.006
3/9/2025 6:00	23.9	9.00	295	6.35	229	0.00	10.65	6.93	0.553	0.940	-21.67	0.010	0.00	0.83	45.7	0.008
3/9/2025 7:00	24.2	9.18	298	6.53	229	0.00	10.94	7.16	0.553	0.940	-20.23	0.010	0.00	1.56	45.7	0.014
3/9/2025 8:00	24.0	9.09	296	6.58	229	0.00	11.09	7.03	0.553	0.940	-29.85	0.010	0.00	1.15	45.7	0.011
3/9/2025 9:00	24.3	9.18	303	6.48	229	0.00	11.25	7.18	0.553	0.940	-16.41	0.010	0.00	1.07	45.7	0.010
3/9/2025 10:00	24.0	9.12	307	6.66	224	0.00	10.80	7.04	0.553	0.940	-33.69	0.010	0.00	0.20	45.7	0.002
3/9/2025 11:00	21.8	9.09	302	6.51	225	0.00	11.00	6.38	0.553	0.940	-59.76	0.010	0.00	0.20	45.7	0.002
3/9/2025 12:00	23.7	9.13	306	6.53	225	0.00	11.33	6.95	0.553	0.940	-30.69	0.010	0.00	0.10	45.6	0.001
3/9/2025 13:00	21.8	9.07	302	6.45	224	0.00	12.45	6.36	0.553	0.940	-57.04	0.010	0.00	0.12	45.6	0.001
3/9/2025 14:00	19.9	8.95	296	6.54	225	0.00	13.03	5.74	0.553	0.940	-95.32	0.010	0.00	0.12	45.6	0.001
3/9/2025 15:00	19.5	9.13	295	6.43	224	0.00	12.99	5.74	0.553	0.940	-89.06	0.010	0.00	0.02	45.6	0.000
3/9/2025 16:00	22.2	9.19	299	6.44	224	0.00	13.11	6.55	0.553	0.940	-46.94	0.010	0.00	0.00	45.6	0.000
3/9/2025 17:00	17.4	9.15	309	6.36	225	0.00	12.86	5.13	0.553	0.940	-113.88	0.010	0.00	0.00	45.6	0.000
3/9/2025 18:00	20.3	9.11	305	6.46	224	0.00	12.73	5.95	0.553	0.940	-78.58	0.010	0.00	0.00	45.6	0.000
3/9/2025 19:00	24.9	9.13	301	6.47	224	0.00	13.07	7.32	0.553	0.940	-8.43	0.010	0.00	0.00	45.6	0.000
3/9/2025 20:00	24.0	9.15	312	6.39	224	0.00	7.44	7.06	0.553	0.940	-16.65	0.010	0.00	0.00	45.6	0.000
3/9/2025 21:00	23.3	9.42	319	6.56	224	0.00	9.06	7.06	0.553	0.940	-26.06	0.010	0.00	0.09	45.6	0.001
3/9/2025 22:00	21.8	9.25	320	6.55	224	0.00	9.45	6.49	0.553	0.940	-54.10	0.010	0.00	0.09	45.6	0.001
3/9/2025 23:00	24.5	9.04	295	6.97	225	0.00	8.97	7.11	0.553	0.940	-49.58	0.010	0.00	0.09	45.6	0.001
3/10/2025 0:00	23.7	9.09	292	7.04	225	0.00	8.92	6.95	0.553	0.940	-62.60	0.010	0.00	0.12	45.6	0.001
3/10/2025 1:00	25.5	9.18	300	6.91	225	0.00	9.18	7.54	0.553	0.940	-23.02	0.010	0.00	0.12	45.5	0.001
3/10/2025 2:00	24.0	9.04	286	6.99	225	0.00	8.89	7.00	0.553	0.940	-57.71	0.010	0.00	0.12	45.5	0.001
3/10/2025 3:00	23.3	9.45	329	6.76	224	0.00	8.89	7.10	0.553	0.940	-35.30	0.010	0.00	0.13	45.5	0.001
3/10/2025 4:00	23.9	9.26	316	6.77	225	0.00	9.37	7.12	0.553	0.940	-35.57	0.010	0.00	0.13	45.5	0.001
3/10/2025 5:00	24.4	9.19	312	6.77	224	0.00	7.52	7.23	0.553	0.940	-30.62	0.010	0.00	0.16	45.5	0.001
3/10/2025 6:00	22.9	9.13	309	6.82	224	0.00	5.79	6.72	0.553	0.940	-59.11	0.010	0.00	0.10	45.5	0.001
3/10/2025 7:00	22.2	9.30	308	6.80	225	0.00	5.64	6.65	0.553	0.940	-61.69	0.010	0.00	0.10	45.5	0.001
3/10/2025 8:00	22.0	9.25	314	6.91	224	0.00	5.52	6.56	0.553	0.940	-71.80	0.010	0.00	0.78	45.5	0.007
3/10/2025 9:00	26.3	9.08	295	6.85	225	0.00	5.52	7.70	0.553	0.940	-11.98	0.010	0.00	1.02	45.5	0.009
3/10/2025 10:00	24.5	9.16	304	6.88	225	0.00	5.65	7.22	0.553	0.940	-37.67	0.010	0.00	1.67	45.5	0.015
3/10/2025 11:00	22.0	9.18	306	6.99	224	0.00	6.07	6.51	0.553	0.940	-80.10	0.010	0.00	0.98	45.5	0.009
3/10/2025 12:00	24.9	8.86	287	6.60	225	0.00	9.22	7.11	0.553	0.940	-28.22	0.010	0.00	0.82	45.5	0.007
3/10/2025 13:00	24.8	8.98	286	6.64	224	0.00	9.11	7.18	0.553	0.940	-26.98	0.010	0.00	0.27	45.5	0.002
3/10/2025 14:00	27.4	8.90	295	6.54	225	0.00	9.45	7.84	0.553	0.940	14.06	0.010	6.14	0.29	45.5	0.003
3/10/2025 15:00	24.6	8.93	288	6.81	224	0.00	8.94	7.08	0.553	0.940	-42.13	0.010	0.00	0.18	45.4	0.002
3/10/2025 16:00	22.0	8.90	289	6.83	225	0.00	8.99	6.30	0.553	0.940	-84.70	0.010	0.00	0.08	45.4	0.001
3/10/2025 17:00	22.1	8.98	288	7.10	224	0.00	9.06	6.39	0.553	0.940	-96.69	0.010	0.00	0.06	45.4	0.001
3/10/2025 18:00	20.6	8.91	289	6.50	224	0.00	9.34	5.90	0.553	0.940	-85.30	0.010	0.00	0.02	45.4	0.000
3/10/2025 19:00	21.0	8.71	285	6.60	225	0.00	9.22	5.89	0.553	0.940	-93.04	0.010	0.00	0.01	45.4	0.000

Fuel Gas H2S Estimation

**H2S concentration in Fuel Gas is estimated using the best available data and operating information for heat and material balances, supported by the lab analysis of manual sampling.*

**For Hydrobon/Platformer fired heaters, the SO2 emissions are estimated using the measured average fuel gas flow rate and the estimated H2S concentration in the Fuel Gas.*

Date and Time	North Stack SO2	North Stack Flow	Boiler 9 Fuel Gas	Boiler 9 Fuel Oil	Boiler 13 Fuel Gas	Boiler 13 Fuel Oil	LPG Vapourization Rate	Total Boilers Sulphur Emission	LRF Sulphur Content	LRF Density	Raw Estimated Fuel Gas H2S Concentration	Lab Result Fuel Gas H2S Concentration	Corrected Estimated Fuel Gas H2S Concentration	3hr Rolling Average H2S Concentration	365 Day Rolling Average H2S Concentration	Heater SO2 Emissions
	ppmv	MMSCFH	MSCFH	GPM	MSCFH	GPM	MSCFH	kg/hr	%	kg/L	ppmv	ppmv	ppmv	ppmv	ppmv	kg/hr
3/10/2025 20:00	25.7	8.92	283	6.67	225	0.00	9.43	7.37	0.553	0.940	-18.29	0.010	0.00	0.00	45.4	0.000
3/10/2025 21:00	26.8	9.18	297	6.60	225	0.00	9.01	7.92	0.553	0.940	14.54	0.010	6.62	0.95	45.4	0.009
3/10/2025 22:00	26.0	9.01	286	6.76	225	0.00	8.87	7.53	0.553	0.940	-15.82	0.010	0.00	2.42	45.4	0.022
3/10/2025 23:00	27.5	9.45	303	6.99	224	0.00	8.87	8.37	0.553	0.940	14.33	0.010	0.01	4.64	45.4	0.042
3/11/2025 0:00	25.8	9.01	271	7.07	225	0.00	8.81	7.48	0.553	0.940	-38.00	0.010	0.00	6.09	45.4	0.055
3/11/2025 1:00	18.5	8.95	293	4.97	225	0.00	9.47	5.35	0.553	0.940	-20.92	0.010	0.00	12.17	45.4	0.109
3/11/2025 2:00	19.1	9.08	297	4.97	224	0.00	8.98	5.60	0.553	0.940	-7.89	0.010	0.00	11.10	45.4	0.099
3/11/2025 3:00	14.8	9.00	299	4.52	224	0.00	9.30	4.28	0.553	0.940	-49.01	0.010	0.00	9.51	45.4	0.085
3/11/2025 4:00	16.6	8.92	299	4.42	224	0.00	9.04	4.77	0.553	0.940	-17.72	0.010	0.00	2.12	45.3	0.019
3/11/2025 5:00	14.4	8.76	303	4.28	225	0.00	6.21	4.07	0.553	0.940	-44.74	0.010	0.00	1.10	45.3	0.010
3/11/2025 6:00	18.1	8.90	305	4.28	224	0.00	3.97	5.19	0.553	0.940	12.10	0.010	0.00	0.46	45.3	0.004
3/11/2025 7:00	18.6	8.86	306	4.28	224	0.00	5.30	5.30	0.553	0.940	18.20	0.010	3.88	1.12	45.3	0.010
3/11/2025 8:00	14.8	8.82	301	4.16	225	0.00	5.37	4.20	0.553	0.940	-31.10	0.010	0.00	1.87	45.3	0.016
3/11/2025 9:00	15.5	9.01	309	3.94	225	0.00	5.77	4.51	0.553	0.940	-2.47	0.010	0.00	2.01	45.3	0.018
3/11/2025 10:00	15.9	8.97	313	4.02	224	0.00	5.90	4.58	0.553	0.940	-3.89	0.010	0.00	1.45	45.3	0.013
3/11/2025 11:00	13.7	9.15	324	3.87	225	0.00	6.69	4.03	0.553	0.940	-22.10	0.010	0.00	0.63	45.3	0.006
3/11/2025 12:00	11.6	8.85	312	3.87	225	0.00	6.05	3.29	0.553	0.940	-59.14	0.010	0.00	0.43	45.3	0.004
3/11/2025 13:00	16.5	8.97	315	3.94	225	0.00	5.73	4.76	0.553	0.940	10.25	0.010	0.00	1.00	45.3	0.009
3/11/2025 14:00	16.6	8.95	310	3.81	225	0.00	5.76	4.78	0.553	0.940	18.24	0.010	3.92	1.50	45.3	0.013
3/11/2025 15:00	19.4	9.00	316	3.75	224	0.00	5.82	5.63	0.553	0.940	64.40	0.010	50.08	2.09	45.3	0.018
3/11/2025 16:00	16.1	8.96	298	4.10	225	0.00	5.54	4.64	0.553	0.940	-5.22	0.010	0.00	2.35	45.3	0.021
3/11/2025 17:00	17.7	8.94	299	4.60	224	0.00	5.24	5.08	0.553	0.940	-12.13	0.010	0.00	3.22	45.3	0.028
3/11/2025 18:00	17.2	8.88	300	4.49	220	0.00	4.75	4.91	0.553	0.940	-14.46	0.010	0.00	3.17	45.3	0.028
3/11/2025 19:00	15.6	9.00	297	4.46	220	0.00	4.04	4.53	0.553	0.940	-32.51	0.010	0.00	4.03	45.2	0.035
3/11/2025 20:00	17.5	8.73	290	4.67	221	0.00	3.10	4.91	0.553	0.940	-25.57	0.010	0.00	4.27	45.2	0.038
3/11/2025 21:00	19.0	9.01	303	4.89	219	0.00	4.14	5.50	0.553	0.940	-7.93	0.010	0.00	3.91	45.2	0.035
3/11/2025 22:00	17.8	9.02	298	4.99	220	0.00	3.32	5.17	0.553	0.940	-31.16	0.010	0.00	2.47	45.2	0.022
3/11/2025 23:00	20.6	8.79	295	5.26	220	0.00	3.12	5.84	0.553	0.940	-13.00	0.010	0.00	1.76	45.2	0.016
3/12/2025 0:00	19.6	8.72	288	5.20	215	0.00	2.83	5.50	0.553	0.940	-27.83	0.010	0.00	2.01	45.2	0.018
3/12/2025 1:00	16.3	8.80	284	5.13	216	0.00	3.39	4.62	0.553	0.940	-70.40	0.010	0.00	1.60	45.2	0.014
3/12/2025 2:00	22.8	8.76	289	5.21	215	0.00	3.14	6.42	0.553	0.940	20.92	0.010	6.60	0.64	45.2	0.006
3/12/2025 3:00	22.8	8.59	283	5.27	215	0.00	2.28	6.31	0.553	0.940	11.61	0.010	0.00	1.01	45.2	0.009
3/12/2025 4:00	28.2	8.81	284	5.15	215	0.00	2.41	7.99	0.553	0.940	109.27	0.010	94.95	8.87	45.2	0.081
3/12/2025 5:00	28.3	8.66	284	5.21	215	0.00	2.38	7.88	0.553	0.940	99.63	0.010	85.31	29.19	45.2	0.264
3/12/2025 6:00	25.9	8.79	294	5.20	216	0.00	3.30	7.32	0.553	0.940	68.70	0.010	54.38	55.41	45.2	0.498
3/12/2025 7:00	25.9	8.76	293	5.21	216	0.00	2.47	7.31	0.553	0.940	67.62	0.010	53.30	70.90	45.2	0.644
3/12/2025 8:00	20.2	8.44	265	4.87	215	0.00	4.79	5.48	0.553	0.940	-8.97	0.010	0.00	60.25	45.2	0.544
3/12/2025 9:00	18.4	9.14	323	4.71	215	0.00	9.15	5.42	0.553	0.940	-1.72	0.010	0.00	33.55	45.2	0.305
3/12/2025 10:00	17.6	8.81	298	4.62	216	0.00	11.00	5.00	0.553	0.940	-18.43	0.010	0.00	10.53	45.2	0.095
3/12/2025 11:00	22.0	8.95	305	4.59	215	0.00	10.71	6.32	0.553	0.940	53.18	0.010	38.86	5.19	45.2	0.047
3/12/2025 12:00	19.1	8.58	272	4.94	216	0.00	11.04	5.28	0.553	0.940	-24.25	0.010	0.00	6.65	45.2	0.060
3/12/2025 13:00	20.6	8.36	262	5.14	216	0.00	12.88	5.55	0.553	0.940	-22.77	0.010	0.00	9.58	45.2	0.086
3/12/2025 14:00	18.8	8.79	283	4.88	215	0.00	12.87	5.32	0.553	0.940	-18.02	0.010	0.00	6.48	45.2	0.058
3/12/2025 15:00	25.3	8.87	287	5.03	215	0.00	12.42	7.24	0.553	0.940	77.43	0.010	63.11	7.76	45.2	0.070
3/12/2025 16:00	25.7	8.61	273	5.12	216	0.00	12.84	7.12	0.553	0.940	67.27	0.010	52.95	13.15	45.2	0.119
3/12/2025 17:00	23.6	8.85	293	5.10	216	0.00	6.95	6.74	0.553	0.940	44.19	0.010	29.87	25.88	45.2	0.236
3/12/2025 18:00	25.4	8.95	294	5.10	216	0.00	4.10	7.31	0.553	0.940	74.34	0.010	60.01	43.93	45.2	0.394
3/12/2025 19:00	29.4	8.91	300	5.15	215	0.00	4.17	8.45	0.553	0.940	129.86	0.010	115.54	67.03	45.2	0.614
3/12/2025 20:00	23.9	8.86	300	5.08	216	0.00	3.51	6.82	0.553	0.940	48.71	0.010	34.39	79.40	45.2	0.757
3/12/2025 21:00	27.0	8.82	291	5.10	215	0.00	4.28	7.66	0.553	0.940	93.24	0.010	78.92	79.78	45.2	0.752
3/12/2025 22:00	28.3	9.24	318	5.11	216	0.00	7.38	8.41	0.553	0.940	126.64	0.010	112.32	81.70	45.2	0.791
3/12/2025 23:00	27.2	8.75	290	4.94	216	0.00	7.46	7.67	0.553	0.940	104.55	0.010	0.01	90.03	45.2	0.877
3/13/2025 0:00	27.3	8.71	292	4.90	215	0.00	7.24	7.65	0.553	0.940	105.66	0.010	1.11	71.42	45.2	0.690
3/13/2025 1:00	28.0	8.66	284	4.68	216	0.00	7.54	7.80	0.553	0.940	129.27	0.010	24.72	45.53	45.2	0.439
3/13/2025 2:00	25.0	8.95	311	4.89	216	0.00	7.60	7.20	0.553	0.940	78.80	0.010	0.00	15.19	45.2	0.146
3/13/2025 3:00	26.1	8.77	301	4.78	216	0.00	7.48	7.37	0.553	0.940	96.13	0.010	0.00	16.26	45.2	0.156
3/13/2025 4:00	25.4	8.63	290	4.81	216	0.00	9.24	7.06	0.553	0.940	80.11	0.010	0.00	10.77	45.1	0.105
3/13/2025 5:00	27.6	8.65	284	4.91	216	0.00	9.15	7.68	0.553	0.940	108.59	0.010	4.05	9.38	45.1	0.090
3/13/2025 6:00	29.0	8.53	275	5.05	216	0.00	12.82	7.97	0.553	0.940	118.71	0.010	14.16	8.99	45.1	0.086
3/13/2025 7:00	29.9	8.58	274	5.06	215	0.00	12.83	8.24	0.553	0.940	133.43	0.010	28.89	24.84	45.1	0.240
3/13/2025 8:00	21.7	8.62	275	5.11	215	0.00	12.81	6.03	0.553	0.940	6.43	0.010	0.00	36.66	45.1	0.354
3/13/2025 9:00	17.6	8.61	270	5.06	216	0.00	12.84	4.86	0.553	0.940	-55.83	0.010	0.00	32.97	45.1	0.317
3/13/2025 10:00	15.7	8.21	250	5.04	215	0.00	12.85	4.14	0.553	0.940	-99.72	0.010	0.00	14.76	45.1	0.142
3/13/2025 11:00	18.7	8.75	280	5.07	224	0.00	13.10	5.27	0.553	0.940	-32.39	0.010	0.00	0.00	45.1	0.000
3/13/2025 12:00	17.6	8.77	285	4.80	225	0.00	12.61	4.98	0.553	0.940	-30.58	0.010	0.00	0.00	45.1	0.000
3/13/2025 13:00	18.6	8.83	288	4.54	224	0.00	13.17	5.28	0.553	0.940	1.54	0.010	0.00	0.00	45.1	0.000
3/13/2025 14:00	17.4	8.88	285	4.55	225	0.00	13.17	4.99	0.553	0.940	-15.24	0.010	0.00	0.00	45.1	0.000
3/13/2025 15:00	14.9	9.02	301	4.46	224	0.00	12.59	4.32	0.553	0.940	-43.41	0.010	0.00	0.00	45.1	0.000
3/13/2025 16:00	13.9	8.77	287	4.16	225	0.00	13.09	3.92	0.553	0.940	-48.05	0.010	0.00	0.00	45.1	0.000
3/13/2025 17:00	13.2	8.83	294	4.12	224	0.00	13.04	3.74	0.553	0.940	-54.17	0.010	0.00	0.00	45.1	0.000
3/13/2025 18:00	16.7	8.74	294	3.96	224	0.00	8.92	4.71	0.553	0.940	6.63	0.010	0.00	0.00	45.1	0.000
3/13/2025 19:00	13.1	9.11	314	3.88	224	0.00	6.63	3.84	0.553	0.940	-33.09	0.010	0.00	0.00	45.0	0.000
3/13/2025 20:00	13.9	8.70	297	4.15	225	0.00	6.39	3.88	0.553	0.940	-47.71	0.010	0.00	0.00	45.0	0.000
3/13/2025 21:00	13.1	8.57	284	4.55	224	0.00	6.45	3.61	0.553	0.940	-88.13	0.010	0.00	0.00	45.0	0.000
3/13/2025 22:00	13.7	8.70	290	4.66	224	0.00	6.55	3.85	0.553	0.940	-81.17	0.010	0.00	0.00	45.0	0.000
3/13/2025 23:00	13.2	9.14	297	4.43	224	0.00	6.45	3.87	0.553	0.940	-65.00	0.010	0.00	0.00	45.0	0.000
3/14/2025 0:00	14.2	8.93	286	4.57	224	0.00	6.58	4.07	0.553	0.940	-54.11	0.010	0.00	0.00	45.0	0.000
3/14/2025 1:00	12.7	8.98	295	4.57	224	0.01	6.26	3.67	0.553	0.940	-84.51	0.010	0.00	0.00	45.0	0.000
3/14/2025 2:00	11.7	8.79	283	4.52	225	0.00	6.37	3.30	0.553	0.940	-102.46	0.010	0.00	0.00	45.0	0.000
3/14/2025 3:00	13.5	8.57	280	4.60	225	0.00	5.66	3.73	0.553	0.940	-84.77	0.010	0.00	0.00	45.0	0.000
3/14/2025 4:00	13.1	8.78	293	4.64	225	0.00	5.30	3.69	0.553	0.940	-87.66	0.010	0.00	0.00	45.0	0.000
3/14/2025 5:00	11.2	8.76	283	4.84	225	0.00	5.71	3.16	0.553	0.940	-129.54	0.010	0.00	0.00	45.0	0.000
3/14/2025 6:00	17.1	8.82	287	4.89	225	0.00	3.13	4.84	0.553	0.940	-42.88	0.010	0.00	0.00	45.0	0.000
3/14/2025 7:00	19.3	8.68	284	4.93	224	0.00	4.17	5.40	0.553	0.940	-15.80	0.010	0.00	0.00	45.0	0.000
3/14/2025 8:00	17.9	8.57	285	4.91	225	0.00	2.87	4.95	0.553	0.940	-38.35	0.010	0.00	0.00	45.0	0.000
3/14/2025 9:00	18.2	8.62	280	4.81	225	0.00	4.48	5.05	0.553	0.940	-27.36	0.010	0.00	0.00	44.9	0.000
3/14/2025 10:00	20.1	8.84	287	4.78	225	0.00	5.19	5.72	0.553	0.940	10.16	0.010	0.00	0.00	44.9	0.000
3/14/2025 11:00	19.4	8.71	287	4.60	224	0.00	4.20	5.43	0.553	0.940	5.38	0.010	0.00	0.00	44.9	0.000
3/14/2025 12:00	24.1	8.84	293	4.60	225	0.00	3.85	6.85	0.553	0.940	79.25	0.010	0.00	0.00	44.9	0.000
3/14/2025 13:00	21.3	8.80	293	4.51	224	0.00	3.85	6.04	0.553	0.940	42.80	0.010	0.00	0.18	44.9	0.002
3/14/2025 14:00	21.5	9.14	314	4.50	225	0.00	4.48	6.32	0.553	0.940	55.39	0.010	0.00	0.18	44.9	0.002
3/14/2025 15:00	21.5	8.96	312	4.50	225	0.00	4.34	6.20	0.553	0.940	49.50	0.010	0.00	0.28	44.9	0.003
3/14/2025 16:00	18.5	8.98	308	4.56	225	0.00	3.75	5.34	0.553	0.940	3.71	0.010	0.00	0.10	44.9	0.001
3/14/2025 17:00	20.0	8.95	307	4.47	225	0.00	3.56	5.76	0.553	0.940	29.55	0.010	0.00	0.10	44.9	0.001
3/14/2025 18:00	24.2	8.95	307	4.61	224	0.00	6.38	6.97	0.553	0.940	82.88	0.010	0.00	0.00	44.9	0.000
3/14/2025 19:00	24.4	8.95	302	4.43	225	0.00	3.93	7.04	0.553	0.940	97.79	0.010	0.00	3.15	44.9	0.030
3/14/2025 20:00	24.3	8.97	311	4.33	224	0.00	3.39	7.02	0.553	0.940	100.90	0.010	0.00	7.12	44.9	0.067
3/14/2025 21:00	22.4	9.30	314	4.11	224	0.00	4.90	6.70	0.553	0.940	97.18	0.010	0.00	8.01	44.9	0.075
3/14/2025 22:00	26.0	9.19	311	4.28	224	0.00	4.54	7.69	0.553	0.940	137.92	0.010	33.37	9.20	44.9	0.087
3/14/2025 23:00	27.0	9.02	309	4.31	225	0.00	6.61	7.85	0.553	0.940	144.61	0.820	0.82	8.34	44.8	0.079
3/15/2025 0:00	23.7	8.98	302	4.31	225	0.00	6.35	6.85	0.553	0.940	95.49	0.820	0.00	8.43	44.8	0.079
3/15/2025 1:00	23.8	8.90	305	4.34	224	0.00	8.57	6.83	0.553	0.940	92.43	0.820	0.00	9.94	44.8	0.095
3/15/2025 2:00	25.7	8.95	296	4.34	225	0.00	8.27	7.41	0.553	0.940	123.77	0.820	0.00	6.83	44.8	0.065
3/15/2025 3:00	27.9	9.00	305	4.19	225	0.00	9.39	8.10	0.553	0.940	166.38	0.820	22.58	6.59	44.8	0.062
3/15/2025 4:00	23.5	8.86	297	4.27	224	0.00	8.92	6.70	0.553	0.940	91.71	0.820	0.00	1.76	44.8	0.017
3/15/2025 5:00	24.2	9.02	301	4.29	224	0.00	9.90	7.03	0.553	0.940	106.46	0.820	0.00	2.40	44.8	0.023
3/15/2025 6:00	25.8	8.87	302	4.29	225	0.00	7.20	7.36	0.553	0.940	123.14	0.820	0.00	2.43	44.8	0.023
3/15/2025 7:00	22.5	8.98	301	4.30	225	0.00	7.06	6.51	0.553	0.940	78.41	0.820	0.00	3.75	44.8	0.036
3/15/2025 8:00	13.1	8.83	298	4.23	225	0.00	7.18	3.73	0.553	0.940	-60.26	0.820	0.00	3.11	44.8	0.030
3/15/2025 9:00	17.5	9.11	317	4.22	225	0.00	7.48	5.14	0.553	0.940	13.19	0.820	0.00	2.35	44.8	0.022
3/15/2025 10:00	16.5	8.89	317	4.12	215	0.00	7.23	4.72	0.553	0.940	-2.38	0.820	0.00	0.00	44.8	0.000
3/15/2025 11:00	17.5	8.88	320	4.20	215	0.00	7.15	5.01	0.553	0.940	8.09	0.820	0.00	0.00	44.8	0.000
3/15/2025 12:00	17.6	8.86	316	4.05	215	0.00	7.27	5.01	0.553	0.940	16.45	0.820	0.00	0.00	44.8	0.000
3/15/2025 13:00	23.6	8.88	313	3.94	215	0.00	7.38	6.74	0.553	0.940	111.47	0.820	0.00	0.00	44.7	0.000
3/15/2025 14:00	21.0	8.83	312	3.92	216	0.00	7.30	5.98	0.553	0.940	73.47	0.820	0.00	0.00	44.7	0.000
3/15/2025 15:00	15.9	8.80	326	3.93	215	0.00	7.35	4.50	0.553	0.940	-2.73	0.820	0.00	0.00	44.7	0.000
3/15/2025 16:00	18.0	9.04	338	3.82	206	0.00	7.18	5.23	0.553	0.940	40.04	0.820	0.00	0.00	44.7	0.000
3/15/2025 17:00	14.5	8.82	339	3.73	197	0.00	7.46	4.11	0.553	0.940	-10.51	0.820	0.00	0.00	44.7	0.000
3/15/2025 18:00	13.9	8.98	352	3.74	188	0.00	7.44	4.00	0.553	0.940	-16.02	0.820	0.00	0.00	44.7	0.000
3/15/2025 19:00	13.3	9.18	390	3.71	161	0.00	7.60	3.93	0.553	0.940	-17.61	0.820	0.00	0.00	44.7	0.000
3/15/2025 20:00	14.9	9.33	395	3.64	161	0.00	7.58	4.49	0.553	0.940	13.22	0.820	0.00	0.00	44.7	0.000
3/15/2025 21:00	15.7	8.93	352	3.61	188	0.00	7.49	4.53	0.553	0.940	17.85	0.820	0.00	0.00	44.7	0.000
3/15/2025 22:00	14.3	9.50	351	3.63	197	0.00	7.12	4.38	0.553	0.940	9.14	0.820	0.00	0.00	44.7	0.000
3/15/2025 23:00	11.3	9.04	361	3.28	188	0.00	7.14	3.28	0.553	0.940	-24.99	0.820	0.00	0.00	44.7	0.000
3/16/2025 0:00	10.1	9.10	383	3.31	174	0.00	7.12	2.97	0.553	0.940	-41.34	0.820	0.00	0.00	44.7	0.000
3/16/2025 1:00	10.9	9.17	389	3.23	169	0.00	7.49	3.20	0.553	0.940	-25.75	0.820	0.00	0.00	44.7	0.000
3/16/2025 2:00	9.6	9.09	382	3.54	170	0.00	7.24	2.81	0.553	0.940	-62.82	0.820	0.00	0.00	44.7	0.000

Fuel Gas H2S Estimation

**H2S concentration in Fuel Gas is estimated using the best available data and operating information for heat and material balances, supported by the lab analysis of manual sampling.*

**For Hydrobon/Platformer fired heaters, the SO2 emissions are estimated using the measured average fuel gas flow rate and the estimated H2S concentration in the Fuel Gas.*

Date and Time	North Stack SO2	North Stack Flow	Boiler 9 Fuel Gas	Boiler 9 Fuel Oil	Boiler 13 Fuel Gas	Boiler 13 Fuel Oil	LPG Vapourization Rate	Total Boilers Sulphur Emission	LRF Sulphur Content	LRF Density	Raw Estimated Fuel Gas H2S Concentration	Lab Result Fuel Gas H2S Concentration	Corrected Estimated Fuel Gas H2S Concentration	3hr Rolling Average H2S Concentration	365 Day Rolling Average H2S Concentration	Heater SO2 Emissions
	ppmv	MMSCFH	MSCFH	GPM	MSCFH	GPM	MSCFH	kg/hr	%	kg/L	ppmv	ppmv	ppmv	ppmv	ppmv	kg/hr
3/16/2025 3:00	13.3	9.18	374	3.52	179	0.00	7.24	3.93	0.553	0.940	-7.03	0.820	0.00	0.00	44.6	0.000
3/16/2025 4:00	11.9	9.00	343	3.50	206	0.00	7.44	3.45	0.553	0.940	-29.20	0.820	0.00	0.00	44.6	0.000
3/16/2025 5:00	8.8	9.09	314	3.26	229	0.00	7.44	2.56	0.553	0.940	-59.81	0.820	0.00	0.00	44.6	0.000
3/16/2025 6:00	10.0	8.98	315	3.22	229	0.00	7.24	2.88	0.553	0.940	-42.09	0.820	0.00	0.00	44.6	0.000
3/16/2025 7:00	13.9	9.09	316	3.66	229	0.00	7.13	4.07	0.553	0.940	-8.08	0.820	0.00	0.00	44.6	0.000
3/16/2025 8:00	15.9	9.15	322	3.84	229	0.00	7.33	4.68	0.553	0.940	11.56	0.820	0.00	0.00	44.6	0.000
3/16/2025 9:00	12.7	9.21	319	3.80	229	0.00	7.55	3.78	0.553	0.940	-30.28	0.820	0.00	0.00	44.6	0.000
3/16/2025 10:00	18.8	9.12	318	3.87	229	0.00	7.61	5.53	0.553	0.940	52.09	0.820	0.00	0.00	44.6	0.000
3/16/2025 11:00	13.1	9.13	318	3.58	229	0.00	7.13	3.86	0.553	0.940	-13.96	0.820	0.00	0.00	44.6	0.000
3/16/2025 12:00	12.1	9.14	323	3.43	229	0.00	7.28	3.56	0.553	0.940	-20.01	0.820	0.00	0.00	44.6	0.000
3/16/2025 13:00	9.5	9.09	317	3.37	229	0.00	7.29	2.79	0.553	0.940	-54.76	0.820	0.00	0.00	44.6	0.000
3/16/2025 14:00	11.2	9.22	316	3.39	229	0.00	7.16	3.33	0.553	0.940	-29.18	0.820	0.00	0.00	44.6	0.000
3/16/2025 15:00	9.5	8.95	321	3.26	230	0.00	7.46	2.74	0.553	0.940	-50.65	0.820	0.00	0.00	44.6	0.000
3/16/2025 16:00	9.4	8.84	300	3.10	229	0.00	7.32	2.66	0.553	0.940	-46.78	0.820	0.00	0.00	44.6	0.000
3/16/2025 17:00	9.3	8.84	303	3.13	230	0.00	11.34	2.65	0.553	0.940	-49.68	0.820	0.00	0.00	44.5	0.000
3/16/2025 18:00	9.7	8.81	305	3.22	229	0.00	10.95	2.74	0.553	0.940	-49.97	0.820	0.00	0.00	44.5	0.000
3/16/2025 19:00	11.5	9.24	323	3.37	229	0.00	10.92	3.41	0.553	0.940	-24.18	0.820	0.00	0.00	44.5	0.000
3/16/2025 20:00	13.4	9.15	327	3.58	229	0.00	10.76	3.94	0.553	0.940	-10.06	0.820	0.00	0.00	44.5	0.000
3/16/2025 21:00	13.2	9.23	307	3.72	230	0.00	10.39	3.92	0.553	0.940	-19.40	0.820	0.00	0.00	44.5	0.000
3/16/2025 22:00	13.4	9.17	305	4.19	229	0.00	11.33	3.95	0.553	0.940	-46.05	0.820	0.00	0.00	44.5	0.000
3/16/2025 23:00	13.4	8.62	279	4.02	229	0.00	11.10	3.72	0.553	0.940	-49.57	0.820	0.00	0.00	44.5	0.000
3/17/2025 0:00	12.8	8.82	290	3.90	230	0.00	11.17	3.63	0.550	0.941	-45.47	0.820	0.00	0.00	44.5	0.000
3/17/2025 1:00	15.1	8.80	286	4.08	229	0.00	10.42	4.28	0.550	0.941	-22.38	0.820	0.00	0.00	44.5	0.000
3/17/2025 2:00	14.5	9.06	301	4.38	230	0.00	10.70	4.24	0.550	0.941	-41.56	0.820	0.00	0.00	44.5	0.000
3/17/2025 3:00	17.2	8.66	280	4.47	230	0.00	10.51	4.79	0.550	0.941	-19.52	0.820	0.00	0.00	44.5	0.000
3/17/2025 4:00	16.0	8.68	270	4.57	229	0.00	10.20	4.47	0.550	0.941	-43.63	0.820	0.00	0.00	44.5	0.000
3/17/2025 5:00	17.1	8.54	269	4.51	230	0.00	10.59	4.71	0.550	0.941	-26.85	0.820	0.00	0.00	44.5	0.000
3/17/2025 6:00	17.0	9.20	300	4.64	229	0.00	10.54	5.03	0.550	0.941	-16.59	0.820	0.00	0.00	44.5	0.000
3/17/2025 7:00	15.1	8.45	262	4.76	230	0.00	10.26	4.12	0.550	0.941	-75.93	0.820	0.00	0.00	44.4	0.000
3/17/2025 8:00	15.1	8.92	299	4.74	230	0.00	10.49	4.32	0.550	0.941	-58.69	0.820	0.00	0.00	44.4	0.000
3/17/2025 9:00	15.1	9.08	303	4.65	229	0.00	10.85	4.42	0.550	0.941	-48.11	0.820	0.00	0.00	44.4	0.000
3/17/2025 10:00	17.6	8.77	278	4.70	230	0.00	10.21	4.97	0.550	0.941	-23.98	0.820	0.00	0.00	44.4	0.000
3/17/2025 11:00	18.7	9.02	301	4.65	224	0.00	10.88	5.43	0.550	0.941	3.30	0.820	0.00	0.00	44.4	0.000
3/17/2025 12:00	16.9	8.93	300	4.40	225	0.00	10.27	4.85	0.550	0.941	-11.53	0.820	0.00	0.00	44.4	0.000
3/17/2025 13:00	17.9	8.95	303	4.46	225	0.00	10.88	5.16	0.550	0.941	0.54	0.820	0.00	0.00	44.4	0.000
3/17/2025 14:00	18.7	8.94	304	4.46	225	0.00	10.24	5.38	0.550	0.941	12.24	1.620	1.62	0.00	44.4	0.000
3/17/2025 15:00	12.9	8.91	310	4.37	225	0.00	10.56	3.69	0.550	0.941	-68.34	1.620	0.00	0.33	44.4	0.004
3/17/2025 16:00	15.0	9.10	309	4.08	225	0.00	10.74	4.38	0.550	0.941	-16.32	1.620	0.00	0.73	44.4	0.008
3/17/2025 17:00	13.7	9.00	310	4.15	225	0.00	9.82	3.97	0.550	0.941	-41.60	1.620	0.00	0.99	44.4	0.011
3/17/2025 18:00	13.0	8.94	311	3.86	225	0.00	9.88	3.73	0.550	0.941	-36.30	1.620	0.00	0.81	44.4	0.009
3/17/2025 19:00	10.6	8.86	318	3.75	225	0.00	10.35	3.04	0.550	0.941	-64.54	1.620	0.00	0.62	44.4	0.007
3/17/2025 20:00	12.0	8.98	323	3.69	224	0.00	10.18	3.48	0.550	0.941	-38.80	1.620	0.00	0.40	44.4	0.004
3/17/2025 21:00	13.1	9.27	331	3.53	225	0.00	10.39	3.92	0.550	0.941	-7.37	1.620	0.00	0.84	44.3	0.009
3/17/2025 22:00	11.0	9.19	329	3.76	224	0.00	9.89	3.25	0.550	0.941	-53.41	1.620	0.00	0.93	44.3	0.010
3/17/2025 23:00	13.7	8.97	317	3.83	225	0.00	10.40	3.96	0.550	0.941	-22.48	0.010	0.01	0.91	44.3	0.010
3/18/2025 0:00	13.3	9.09	324	3.81	225	0.00	8.53	3.90	0.550	0.941	-24.32	0.010	0.00	1.54	44.3	0.017
3/18/2025 1:00	14.3	9.07	323	3.85	224	0.00	8.17	4.19	0.550	0.941	-12.08	0.010	10.41	3.10	44.3	0.035
3/18/2025 2:00	15.3	8.98	323	3.97	225	0.00	8.29	4.42	0.550	0.941	-8.25	0.010	14.24	4.23	44.3	0.048
3/18/2025 3:00	13.0	8.98	315	3.89	225	0.00	7.99	3.75	0.550	0.941	-36.98	0.010	0.00	4.39	44.3	0.049
3/18/2025 4:00	16.0	8.87	327	3.92	224	0.00	8.52	4.57	0.550	0.941	2.12	0.010	24.60	4.79	44.3	0.054
3/18/2025 5:00	13.3	8.99	309	3.98	225	0.00	7.24	3.86	0.550	0.941	-36.99	0.010	0.00	5.25	44.3	0.059
3/18/2025 6:00	11.6	9.01	324	3.78	224	0.00	7.45	3.37	0.550	0.941	-48.73	0.010	0.00	5.63	44.3	0.064
3/18/2025 7:00	12.4	9.11	328	3.79	225	0.00	7.17	3.63	0.550	0.941	-36.19	0.010	0.00	6.03	44.3	0.068
3/18/2025 8:00	15.4	9.04	325	3.71	225	0.00	7.32	4.49	0.550	0.941	10.03	0.010	32.52	9.27	44.3	0.104
3/18/2025 9:00	14.6	9.03	323	3.73	224	0.00	7.37	4.26	0.550	0.941	-2.06	0.010	20.43	10.64	44.3	0.120
3/18/2025 10:00	10.2	8.87	320	3.72	225	0.00	7.27	2.93	0.550	0.941	-67.50	0.010	0.00	11.01	44.3	0.123
3/18/2025 11:00	13.8	9.12	327	3.50	224	0.00	7.16	4.06	0.550	0.941	0.75	0.010	23.23	8.95	44.3	0.101
3/18/2025 12:00	11.6	8.70	302	3.46	225	0.00	7.46	3.24	0.550	0.941	-38.97	0.010	0.00	7.80	44.3	0.086
3/18/2025 13:00	12.3	8.66	310	3.43	225	0.00	7.15	3.44	0.550	0.941	-26.37	0.010	0.00	6.46	44.3	0.072
3/18/2025 14:00	12.7	8.80	311	3.41	224	0.00	11.24	3.60	0.550	0.941	-16.74	0.010	5.75	3.80	44.2	0.042
3/18/2025 15:00	10.3	8.67	302	3.16	225	0.00	12.91	2.88	0.550	0.941	-40.06	0.010	0.00	2.39	44.2	0.027
3/18/2025 16:00	7.3	8.58	302	3.03	225	0.00	14.70	2.01	0.550	0.941	-77.63	0.010	0.00	0.71	44.2	0.008
3/18/2025 17:00	7.2	8.75	307	2.99	225	0.00	14.67	2.03	0.550	0.941	-73.04	0.010	0.00	1.13	44.2	0.012
3/18/2025 18:00	6.7	8.66	309	2.92	225	0.00	9.46	1.88	0.550	0.941	-75.72	0.010	0.00	0.59	44.2	0.007
3/18/2025 19:00	6.1	8.61	302	2.91	225	0.00	9.21	1.68	0.550	0.941	-85.89	0.010	0.00	0.58	44.2	0.006
3/18/2025 20:00	6.4	8.85	302	3.54	225	0.00	6.14	1.81	0.550	0.941	-115.99	0.010	0.00	0.04	44.2	0.000
3/18/2025 21:00	25.0	9.48	332	3.79	224	0.00	6.70	7.65	0.550	0.941	158.90	0.010	181.39	9.85	44.2	0.109
3/18/2025 22:00	16.1	8.23	268	4.63	251	0.00	6.41	4.27	0.550	0.941	-55.64	0.010	0.00	14.88	44.2	0.171
3/18/2025 23:00	18.9	7.86	237	4.96	262	0.00	2.13	4.79	0.550	0.941	-50.15	0.010	0.00	14.93	44.2	0.172
3/19/2025 0:00	20.0	8.05	261	4.96	252	0.00	1.69	5.20	0.550	0.941	-27.23	0.010	0.00	5.28	44.2	0.061
3/19/2025 1:00	24.1	8.31	267	6.28	248	0.00	4.70	6.46	0.550	0.941	-41.01	0.010	0.00	1.83	44.2	0.021
3/19/2025 2:00	26.0	8.00	255	6.48	248	0.00	4.47	6.71	0.550	0.941	-40.95	0.010	0.00	3.62	44.2	0.042
3/19/2025 3:00	26.4	8.18	262	6.49	248	0.00	4.36	6.94	0.550	0.941	-28.55	0.010	0.00	4.17	44.2	0.049
3/19/2025 4:00	26.0	8.13	255	6.64	247	0.00	4.07	6.81	0.550	0.941	-45.56	0.010	0.00	3.95	44.2	0.046
3/19/2025 5:00	29.5	7.95	249	6.79	247	0.00	4.58	7.55	0.550	0.941	-15.38	0.010	7.11	2.94	44.2	0.035
3/19/2025 6:00	25.5	8.25	275	6.93	229	0.00	7.55	6.79	0.550	0.941	-64.78	0.010	0.00	4.85	44.2	0.057
3/19/2025 7:00	27.5	8.36	286	6.41	229	0.00	7.06	7.39	0.550	0.941	0.06	0.010	22.55	13.26	44.2	0.155
3/19/2025 8:00	26.7	8.34	292	6.32	229	0.00	7.06	7.17	0.550	0.941	-5.93	0.010	16.56	17.68	44.2	0.205
3/19/2025 9:00	26.1	8.41	295	6.30	229	0.00	7.11	7.07	0.550	0.941	-9.87	0.010	12.62	22.79	44.2	0.266
3/19/2025 10:00	28.2	8.51	285	6.45	229	0.00	7.35	7.73	0.550	0.941	15.13	0.010	37.61	23.25	44.2	0.271
3/19/2025 11:00	28.9	8.50	278	6.40	229	0.00	7.45	7.90	0.550	0.941	27.70	0.010	50.19	27.26	44.2	0.314
3/19/2025 12:00	28.2	8.44	287	6.51	230	0.00	7.28	7.66	0.550	0.941	8.13	0.010	30.62	25.74	44.2	0.300
3/19/2025 13:00	26.1	8.25	303	6.52	211	0.00	7.27	6.93	0.550	0.941	-30.61	0.010	0.00	30.74	44.1	0.359
3/19/2025 14:00	27.0	8.04	302	6.58	203	0.00	13.63	6.98	0.550	0.941	-32.58	0.010	0.00	28.49	44.1	0.334
3/19/2025 15:00	28.4	8.21	330	6.57	188	0.00	13.87	7.51	0.550	0.941	-4.11	0.010	18.37	28.51	44.1	0.330
3/19/2025 16:00	28.1	8.23	323	6.57	179	0.00	21.75	7.45	0.550	0.941	-7.20	0.010	15.28	18.64	44.1	0.217
3/19/2025 17:00	27.4	8.27	341	6.43	174	0.00	15.76	7.30	0.550	0.941	-5.73	0.010	16.76	17.62	44.1	0.203
3/19/2025 18:00	26.2	8.21	337	6.54	174	0.00	15.43	6.93	0.550	0.941	-33.17	0.010	0.00	16.27	44.1	0.188
3/19/2025 19:00	26.5	8.25	340	6.35	174	0.00	15.69	7.05	0.550	0.941	-14.36	0.010	8.13	14.91	44.1	0.171
3/19/2025 20:00	24.9	8.31	342	6.43	174	0.00	12.92	6.67	0.550	0.941	-39.57	0.010	0.00	11.51	44.1	0.130
3/19/2025 21:00	29.3	8.35	339	6.35	179	0.00	12.90	7.88	0.550	0.941	29.39	0.010	51.88	9.84	44.1	0.111
3/19/2025 22:00	27.4	8.25	331	6.39	183	0.00	5.18	7.28	0.550	0.941	-4.39	0.010	18.10	7.45	44.1	0.084
3/19/2025 23:00	26.7	8.27	342	5.84	183	0.00	4.10	7.12	0.550	0.941	19.67	0.010	42.16	12.48	44.1	0.141
3/20/2025 0:00	23.0	8.36	353	4.80	183	0.00	4.61	6.18	0.550	0.941	32.15	0.010	54.64	26.55	44.1	0.304
3/20/2025 1:00	21.4	8.46	358	4.74	183	0.00	4.73	5.84	0.550	0.941	18.39	0.010	40.87	39.80	44.1	0.451
3/20/2025 2:00	19.6	8.16	350	4.91	184	0.00	4.79	5.15	0.550	0.941	-25.69	0.010	0.00	40.05	44.1	0.454
3/20/2025 3:00	18.4	8.07	351	4.81	183	0.00	4.72	4.79	0.550	0.941	-37.79	0.010	0.00	26.47	44.1	0.300
3/20/2025 4:00	18.5	8.15	345	5.00	183	0.00	4.19	4.85	0.550	0.941	-46.80	0.010	0.00	13.16	44.1	0.149
3/20/2025 5:00	18.8	8.12	344	4.72	183	0.00	5.75	4.93	0.550	0.941	-26.24	0.010	0.00	7.72	44.1	0.087
3/20/2025 6:00	16.2	8.55	370	4.41	184	0.00	5.87	4.46	0.550	0.941	-30.69	0.010	0.00	6.30	44.1	0.071
3/20/2025 7:00	17.7	8.55	373	4.29	183	0.00	5.68	4.88	0.550	0.941	-3.14	0.010	19.34	10.82	44.1	0.122
3/20/2025 8:00	14.8	8.56	368	4.31	183	0.00	5.49	4.08	0.550	0.941	-43.71	0.010	0.00	9.99	44.1	0.109
3/20/2025 9:00	14.6	8.11	322	4.32	183	0.00	4.00	3.81	0.550	0.941	-62.30	0.010	0.00	9.86	44.0	0.107
3/20/2025 10:00	17.2	8.37	338	4.37	183	0.00	5.82	4.64	0.550	0.941	-20.36	0.010	2.12	6.58	44.0	0.071
3/20/2025 11:00	17.7	8.01	319	4.49	184	0.00	5.84	4.56	0.550	0.941	-33.56	0.010	0.00	8.47	44.0	0.086
3/20/2025 12:00	17.6	8.28	349	4.37	184	0.00	5.81	4.68	0.550	0.941	-18.04	0.010	4.45	10.05	44.0	0.104
3/20/2025 13:00	17.6	7.94	319	4.48	184	0.00	5.81	4.51	0.550	0.941	-35.54	0.010	0.00	10.98	44.0	0.110
3/20/2025 14:00	21.2	7.89	316	4.50	183	0.00	5.59	5.39	0.550	0.941	10.72	0.010	33.21	9.57	44.0	0.092
3/20/2025 15:00	18.6	7.87	314	4.36	183	0.00	5.64	4.71	0.550	0.941	-16.98	0.010	5.51	8.39	44.0	0.080
3/20/2025 16:00	18.6	8.00	322	4.38	184	0.00	5.28	4.79	0.550	0.941	-13.89	0.010	8.60	7.26	44.0	0.068
3/20/2025 17:00	18.9	8.05	331	4.38	183	0.00	7.47	4.91	0.550	0.941	-7.78	0.010	14.70	7.35	44.0	0.068
3/20/2025 18:00	16.4	8.68	348	4.67	183	0.00	10.71	4.58	0.550	0.941	-41.45	0.010	0.00	6.99	44.0	0.063
3/20/2025 19:00	18.5	8.87	375	4.87	183	0.00	8.88	5.28	0.550	0.941	-16.07	0.010	6.42	7.58	44.0	0.070
3/20/2025 20:00	18.5	8.57	356	5.13	194	0.00	9.33	5.10	0.550	0.941	-40.45	0.010	0.00	8.01	44.0	0.071
3/20/2025 21:00	18.4	9.12	326	5.11	206	0.00	9.09	5.41	0.550	0.941	-24.31	0.010	0.00	10.07	44.0	0.083
3/20/2025 22:00	17.7	8.99	337	5.13	207	0.00	7.65	5.13	0.550	0.941	-39.22	0.010	0.00	9.67	44.0	0.084
3/20/2025 23:00	18.4	9.02	337	5.50	206	0.00	3.11	5.35	0.550	0.941	-49.01	0.010	0.00	9.80	44.0	0.085
3/21/2025 0:00	20.6	8.80	285	6.11	207	0.00	3.97	5.83	0.550	0.941	-65.92	0.010	0.00	7.90	44.0	0.046
3/21/2025 1:00	20.2	8.81	312	6.01	206	0.00	3.98	5.73	0.550	0.941	-62.60	0.010	0.00	5.76	43.9	0.034
3/21/2025 2:00	22.8	8.60	300	5.91	207	0.00	4.09	6.30	0.550	0.941	-26.85	0.010	0.00	5.32	43.9	0.031
3/21/2025 3:00	19.4	8.33	278	5.96	207	0.00	4.36	5.20	0.550	0.941	-92.51	0.010	0.00	4.59	43.9	0.023
3/21/2025 4:00	23.1	8.10	274	5.68	206	0.00	4.42	6.02	0.550	0.941	-29.93	0.010	0.00	5.70	43.9	0.027
3/21/2025 5:00	20.3	8.23	285	5.55	206	0.00	4.56	5.39	0.550	0.941	-55.32	0.010	0.00	4.96	43.9	0.024
3/21/2025 6:00	20.1	8.29	281	5.52	206	0.00	6.30	5.36	0.550	0.941	-55.79	0.010	0.00	5.53	43.9	0.027
3/21/2025 7:00	20.1	8.68	275	5.49	206	0.00	15.11	5.61	0.550	0.941	-41.19	0.010	0.00	4.80	43.9	0.020
3/21/2025 8:00	22.2	8.30	232	5.42	207	0.00	56.59	5.93	0.550	0.941	-22.36	0.010	0.13	4.76	43.9	0.005
3/21/2025 9:00	21.8	8.59	279	5.75	197	0.00	31.03	6.04	0.550	0.941	-34.95	0.010	0.00	6.62	43.9	0.010

Fuel Gas H2S Estimation

H2S concentration in Fuel Gas is estimated using the best available data and operating information for heat and material balances, supported by the lab analysis of manual sampling.

For Hydrobon/Platformer fired heaters, the SO2 emissions are estimated using the measured average fuel gas flow rate and the estimated H2S concentration in the Fuel Gas.

Date and Time	North Stack SO2	North Stack Flow	Boiler 9 Fuel Gas	Boiler 9 Fuel Oil	Boiler 13 Fuel Gas	Boiler 13 Fuel Oil	LPG Vapourization Rate	Total Boilers Sulphur Emission	LRF Sulphur Content	LRF Density	Raw Estimated Fuel Gas H2S Concentration	Lab Result Fuel Gas H2S Concentration	Corrected Estimated Fuel Gas H2S Concentration	3hr Rolling Average H2S Concentration	365 Day Rolling Average H2S Concentration	Heater SO2 Emissions
	ppmv	MMSCFH	MSCFH	GPM	MSCFH	GPM	MSCFH	kg/hr	%	kg/L	ppmv	ppmv	ppmv	ppmv	ppmv	kg/hr
3/21/2025 10:00	20.8	9.37	296	5.55	229	0.00	13.42	6.28	0.550	0.941	-6.21	0.010	16.28	10.50	43.9	0.022
3/21/2025 11:00	20.7	9.14	286	5.58	229	0.00	10.92	6.08	0.550	0.941	-18.25	0.010	4.24	11.60	43.9	0.024
3/21/2025 12:00	20.3	9.16	302	5.48	229	0.00	8.45	5.99	0.550	0.941	-17.21	0.010	5.28	10.56	43.9	0.012
3/21/2025 13:00	17.9	9.07	295	5.45	229	0.00	5.18	5.24	0.550	0.941	-53.92	0.010	0.00	10.11	43.9	0.013
3/21/2025 14:00	22.7	9.38	298	5.72	229	0.00	-0.01	6.85	0.550	0.941	13.23	0.010	35.71	10.15	43.9	0.010
3/21/2025 15:00	24.6	9.14	302	6.04	229	0.00	1.01	7.23	0.550	0.941	13.26	0.010	35.75	16.42	43.9	0.023
3/21/2025 16:00	22.4	9.33	289	5.96	229	0.00	10.22	6.73	0.550	0.941	-7.52	0.010	14.96	15.53	43.9	0.033
3/21/2025 17:00	23.5	9.19	285	5.96	229	0.00	5.79	6.94	0.550	0.941	3.58	0.010	26.06	16.59	43.9	0.035
3/21/2025 18:00	21.1	9.43	295	5.93	229	0.00	4.80	6.41	0.550	0.941	-21.91	0.010	0.58	12.26	43.9	0.026
3/21/2025 19:00	20.8	9.00	279	5.91	230	0.00	3.40	6.04	0.550	0.941	-40.85	0.010	0.00	12.88	43.8	0.028
3/21/2025 20:00	18.4	9.09	280	5.92	229	0.00	2.15	5.38	0.550	0.941	-75.80	0.010	0.00	9.82	43.8	0.021
3/21/2025 21:00	22.0	8.98	258	5.86	229	0.00	1.42	6.36	0.550	0.941	-22.06	0.010	0.42	5.07	43.8	0.011
3/21/2025 22:00	22.7	9.22	268	5.66	229	0.00	0.98	6.73	0.550	0.941	11.04	0.010	33.53	4.25	43.8	0.009
3/21/2025 23:00	16.6	9.06	270	5.44	229	0.00	0.96	4.84	0.550	0.941	-77.02	15.700	15.70	10.60	43.8	0.023
3/22/2025 0:00	18.3	9.11	289	5.43	230	0.00	0.78	5.38	0.550	0.941	-45.52	15.700	47.20	26.35	43.8	0.056
3/22/2025 1:00	17.6	9.09	308	5.21	230	0.00	0.61	5.14	0.550	0.941	-43.22	15.700	49.50	42.44	43.8	0.090
3/22/2025 2:00	16.8	9.27	291	5.10	229	0.00	0.67	5.01	0.550	0.941	-44.66	15.700	48.06	58.22	43.8	0.123
3/22/2025 3:00	17.3	9.17	301	4.88	229	0.00	0.65	5.12	0.550	0.941	-25.50	15.700	67.23	61.07	43.8	0.129
3/22/2025 4:00	18.1	9.13	298	4.76	229	0.00	0.62	5.31	0.550	0.941	-9.28	15.700	83.45	60.72	43.8	0.128
3/22/2025 5:00	19.6	9.28	308	4.76	229	0.00	0.67	5.85	0.550	0.941	17.54	15.700	110.27	56.58	43.8	0.119
3/22/2025 6:00	15.2	9.07	316	4.73	229	0.00	0.67	4.44	0.550	0.941	-50.15	15.700	42.57	58.05	43.8	0.122
3/22/2025 7:00	16.2	9.37	308	4.66	229	0.00	0.73	4.90	0.550	0.941	-23.65	15.700	69.07	62.46	43.9	0.131
3/22/2025 8:00	19.7	9.29	301	4.64	229	0.00	0.62	5.89	0.550	0.941	27.21	15.700	119.93	67.11	43.9	0.143
3/22/2025 9:00	15.2	9.19	306	4.57	229	0.00	0.65	4.49	0.550	0.941	-39.02	15.700	53.71	74.10	43.9	0.165
3/22/2025 10:00	17.3	9.32	311	4.59	229	0.00	0.44	5.19	0.550	0.941	-4.89	15.700	87.83	76.11	43.9	0.168
3/22/2025 11:00	17.4	9.29	301	4.65	229	0.00	0.74	5.21	0.550	0.941	-7.48	15.700	85.24	77.09	43.9	0.170
3/22/2025 12:00	26.9	9.11	297	4.67	229	0.00	0.72	7.90	0.550	0.941	127.49	15.700	220.21	95.98	43.9	0.216
3/22/2025 13:00	21.8	9.40	292	5.03	230	0.00	0.78	6.59	0.550	0.941	40.72	15.700	133.44	118.29	43.9	0.252
3/22/2025 14:00	22.3	9.35	297	5.28	229	0.00	-0.02	6.73	0.550	0.941	32.15	15.700	124.87	127.01	43.9	0.240
3/22/2025 15:00	21.2	9.31	296	5.45	229	0.00	-0.02	6.34	0.550	0.941	3.07	15.700	95.79	116.13	43.9	0.254
3/22/2025 16:00	22.6	9.18	292	5.45	229	0.00	0.00	6.69	0.550	0.941	20.36	15.700	113.08	104.48	44.0	0.065
3/22/2025 17:00	23.3	9.07	281	5.46	229	0.00	-0.02	6.80	0.550	0.941	26.21	15.700	118.93	113.77	44.0	0.080
3/22/2025 18:00	25.2	9.29	289	5.35	229	0.00	-0.01	7.53	0.550	0.941	70.27	15.700	163.00	121.24	44.0	0.091
3/22/2025 19:00	23.4	9.12	280	5.32	229	0.00	-0.03	6.87	0.550	0.941	38.43	15.700	131.16	134.60	44.0	0.101
3/22/2025 20:00	25.1	9.63	312	5.29	229	0.00	-0.03	7.78	0.550	0.941	83.08	15.700	175.80	144.37	44.0	0.102
3/22/2025 21:00	24.5	9.49	311	5.41	229	0.00	-0.05	7.49	0.550	0.941	61.79	15.700	154.51	156.01	44.0	0.117
3/22/2025 22:00	24.8	9.09	275	5.14	230	0.00	-0.05	7.25	0.550	0.941	69.49	15.700	162.21	160.74	44.1	0.120
3/22/2025 23:00	23.7	9.31	287	5.34	220	0.00	-0.05	7.09	0.550	0.941	48.89	15.700	141.61	160.33	44.1	0.117
3/23/2025 0:00	26.3	9.50	293	5.36	220	0.00	-0.05	8.05	0.550	0.941	97.01	15.700	189.73	152.97	44.1	0.110
3/23/2025 1:00	25.4	9.58	304	5.34	220	0.00	-0.05	7.84	0.550	0.941	85.30	15.700	178.02	154.11	44.1	0.116
3/23/2025 2:00	24.3	9.49	296	5.35	221	0.00	-0.05	7.41	0.550	0.941	64.11	15.700	156.83	154.50	44.1	0.118
3/23/2025 3:00	25.7	9.20	276	5.34	220	0.00	-0.05	7.62	0.550	0.941	78.39	15.700	171.11	162.08	44.2	0.122
3/23/2025 4:00	22.8	8.73	252	5.31	220	0.00	-0.05	6.42	0.550	0.941	16.73	15.700	109.46	153.20	44.2	0.115
3/23/2025 5:00	26.4	8.93	263	5.33	221	0.00	-0.05	7.59	0.550	0.941	79.71	15.700	172.43	150.98	44.2	0.115
3/23/2025 6:00	26.0	8.90	258	5.29	221	0.00	-0.05	7.46	0.550	0.941	75.58	15.700	168.30	144.03	44.2	0.112
3/23/2025 7:00	25.4	8.84	260	5.37	220	0.00	-0.05	7.22	0.550	0.941	56.73	15.700	149.45	148.63	44.2	0.112
3/23/2025 8:00	17.0	8.55	247	5.35	220	0.00	-0.05	4.69	0.550	0.941	-84.29	15.700	8.43	121.78	44.2	0.177
3/23/2025 9:00	19.3	8.73	251	5.34	220	0.00	2.97	5.43	0.550	0.941	-41.35	15.700	51.37	91.36	44.2	0.126
3/23/2025 10:00	21.0	8.63	254	5.24	220	0.00	3.87	5.82	0.550	0.941	-12.65	15.700	80.07	69.25	44.2	0.101
3/23/2025 11:00	24.5	8.74	259	5.25	220	0.00	5.80	6.89	0.550	0.941	46.71	15.700	139.44	86.06	44.2	0.131
3/23/2025 12:00	22.3	8.50	253	5.20	221	0.00	3.97	6.11	0.550	0.941	6.35	15.700	99.07	112.27	44.2	0.195
3/23/2025 13:00	24.3	8.72	252	5.13	220	0.00	2.19	6.81	0.550	0.941	50.53	15.700	143.25	133.98	44.3	0.227
3/23/2025 14:00	25.9	8.53	244	5.13	220	0.00	0.00	7.12	0.550	0.941	68.69	15.700	161.41	143.24	44.3	0.241
3/23/2025 15:00	23.1	8.55	257	5.10	220	0.00	0.00	6.35	0.550	0.941	25.92	15.700	118.65	145.22	44.3	0.247
3/23/2025 16:00	24.0	8.63	253	5.03	220	0.00	-0.02	6.67	0.550	0.941	48.63	15.700	141.35	138.93	44.3	0.237
3/23/2025 17:00	22.4	8.73	266	4.93	220	0.00	-0.01	6.30	0.550	0.941	33.49	15.700	126.21	138.64	44.3	0.244
3/23/2025 18:00	22.1	9.24	295	4.89	220	0.00	-0.03	6.56	0.550	0.941	47.63	15.700	140.35	146.61	44.3	0.258
3/23/2025 19:00	21.9	9.34	282	4.90	230	0.00	-0.05	6.57	0.550	0.941	47.84	15.700	140.56	161.00	44.3	0.180
3/23/2025 20:00	23.7	9.31	290	4.81	230	0.00	-0.05	7.11	0.550	0.941	80.13	15.700	172.85	166.15	44.4	0.638
3/23/2025 21:00	21.6	8.55	249	4.81	229	0.00	-0.05	5.94	0.550	0.941	21.63	15.700	114.35	160.33	44.4	0.783
3/23/2025 22:00	24.9	9.01	259	4.92	229	0.00	-0.06	7.23	0.550	0.941	85.27	15.700	178.00	160.32	44.4	0.531
3/23/2025 23:00	24.5	8.61	248	5.27	229	0.00	-0.05	6.80	0.550	0.941	40.13	15.700	132.85	158.75	44.4	0.444
3/24/2025 0:00	29.5	8.54	246	5.31	229	0.00	-0.05	8.11	0.550	0.941	111.11	15.700	203.84	163.60	44.4	0.735
3/24/2025 1:00	27.6	8.76	253	5.18	230	0.00	-0.05	7.78	0.550	0.941	99.52	15.700	192.24	179.92	44.5	0.558
3/24/2025 2:00	28.7	8.48	249	5.16	229	0.00	-0.05	7.83	0.550	0.941	104.69	15.700	197.41	195.42	44.5	0.203
3/24/2025 3:00	29.3	8.53	239	5.29	230	0.00	-0.07	8.05	0.550	0.941	110.61	15.700	203.33	208.64	44.5	0.269
3/24/2025 4:00	30.7	8.56	244	5.22	229	0.00	-0.05	8.45	0.550	0.941	136.22	15.700	228.94	208.61	44.5	0.267
3/24/2025 5:00	32.3	8.47	241	5.14	229	0.00	-0.05	8.80	0.550	0.941	162.32	15.700	255.04	218.71	44.6	0.264
3/24/2025 6:00	31.9	8.58	239	5.12	229	0.00	-0.05	8.80	0.550	0.941	165.44	15.700	258.16	233.58	44.6	0.290
3/24/2025 7:00	30.3	8.47	240	5.14	229	0.00	-0.04	8.28	0.550	0.941	133.95	15.700	226.68	235.32	44.6	0.287
3/24/2025 8:00	17.1	8.47	234	4.98	229	0.00	-0.04	4.65	0.550	0.941	-62.84	15.700	29.88	204.65	44.6	0.600
3/24/2025 9:00	18.9	8.65	232	4.94	229	0.00	-0.07	5.27	0.550	0.941	-24.42	15.700	68.31	141.86	44.6	0.581
3/24/2025 10:00	17.4	8.71	247	4.93	229	0.00	-0.08	4.89	0.550	0.941	-44.52	15.700	48.20	82.88	44.6	0.071
3/24/2025 11:00	16.8	8.84	255	5.01	230	0.00	-0.08	4.79	0.550	0.941	-53.94	15.700	38.78	53.17	44.6	0.047
3/24/2025 12:00	18.1	9.11	273	5.01	229	0.00	-0.08	5.31	0.550	0.941	-24.41	15.700	68.31	52.71	44.6	0.047
3/24/2025 13:00	16.7	8.75	252	4.96	230	0.00	-0.08	4.71	0.550	0.941	-56.42	15.700	36.30	56.09	44.6	0.055
3/24/2025 14:00	16.6	8.65	251	4.91	229	0.00	-0.08	4.62	0.550	0.941	-57.75	15.700	34.97	53.39	44.6	0.051
3/24/2025 15:00	17.7	8.78	250	4.98	229	0.00	-0.08	5.02	0.550	0.941	-40.39	15.700	52.33	46.62	44.6	0.045
3/24/2025 16:00	17.0	8.69	250	4.96	229	0.00	-0.08	4.76	0.550	0.941	-53.10	15.700	39.63	39.92	44.6	0.065
3/24/2025 17:00	16.4	8.67	250	4.89	229	0.00	-0.08	4.59	0.550	0.941	-58.30	15.700	34.42	31.70	44.6	0.030
3/24/2025 18:00	14.4	8.52	234	4.89	229	0.00	-0.08	3.94	0.550	0.941	-97.75	15.700	0.00	26.63	44.6	0.026
3/24/2025 19:00	16.2	8.61	243	4.96	229	0.00	-0.08	4.48	0.550	0.941	-70.02	15.700	22.71	18.58	44.6	0.017
3/24/2025 20:00	17.2	8.39	240	4.98	229	0.00	-0.08	4.65	0.550	0.941	-61.95	15.700	30.77	16.58	44.6	0.018
3/24/2025 21:00	17.6	8.65	270	4.93	229	0.00	-0.07	4.89	0.550	0.941	-42.30	15.700	50.42	19.19	44.6	0.018
3/24/2025 22:00	15.1	8.55	258	4.86	229	0.00	-0.07	4.15	0.550	0.941	-79.43	15.700	13.29	20.68	44.6	0.023
3/24/2025 23:00	17.2	8.42	237	4.84	229	0.00	-0.07	4.66	0.550	0.941	-52.76	0.010	0.01	25.97	44.6	0.023
3/25/2025 0:00	13.9	8.75	244	4.87	229	0.00	-0.08	3.93	0.550	0.941	-95.34	0.010	0.00	20.12	44.6	0.018
3/25/2025 1:00	13.9	8.67	225	4.88	229	0.00	-0.08	3.89	0.550	0.941	-102.12	0.010	0.00	12.96	44.6	0.014
3/25/2025 2:00	20.2	9.03	266	4.87	216	0.00	-0.08	5.87	0.550	0.941	14.38	0.010	67.15	4.03	44.6	0.004
3/25/2025 3:00	15.5	8.64	244	4.82	215	0.00	-0.09	4.30	0.550	0.941	-72.63	0.010	0.00	3.15	44.6	0.003
3/25/2025 4:00	17.7	8.53	238	4.68	216	0.00	-0.08	4.85	0.550	0.941	-31.89	0.010	20.88	2.88	44.6	0.003
3/25/2025 5:00	14.0	9.09	261	4.64	216	0.00	-0.09	4.08	0.550	0.941	-71.12	0.010	0.00	3.51	44.6	0.003
3/25/2025 6:00	13.0	8.96	262	4.65	216	0.00	-0.09	3.74	0.550	0.941	-90.28	0.010	0.00	3.91	44.6	0.004
3/25/2025 7:00	17.6	8.94	261	4.63	211	0.00	-0.09	5.08	0.550	0.941	-15.16	0.010	37.61	6.07	44.6	0.006
3/25/2025 8:00	18.8	8.60	250	4.71	202	0.00	-0.09	5.20	0.550	0.941	-13.95	0.010	38.82	11.65	44.6	0.012
3/25/2025 9:00	18.5	8.71	255	4.68	202	0.00	-0.08	5.20	0.550	0.941	-11.87	0.010	40.90	22.18	44.6	0.024
3/25/2025 10:00	19.1	8.81	266	4.65	197	0.00	-0.07	5.42	0.550	0.941	3.31	0.010	56.08	34.35	44.6	0.037
3/25/2025 11:00	17.0	8.70	268	4.64	197	0.00	-0.08	4.76	0.550	0.941	-33.95	0.010	18.82	42.96	44.6	0.044
3/25/2025 12:00	18.7	8.88	287	4.56	188	0.00	-0.08	5.35	0.550	0.941	5.21	0.010	57.98	47.82	44.6	0.050
3/25/2025 13:00	18.1	8.73	280	4.49	188	0.00	-0.08	5.10	0.550	0.941	-4.50	0.010	48.27	49.98	44.6	0.053
3/25/2025 14:00	18.9	8.85	280	4.40	188	0.00	-0.08	5.40	0.550	0.941	18.17	0.010	70.94	50.48	44.6	0.053
3/25/2025 15:00	15.2	8.69	272	4.37	188	0.00	-0.08	4.24	0.550	0.941	-46.33	0.010	6.44	49.47	44.6	0.052
3/25/2025 16:00	16.2	8.82	285	4.39	188	0.00	-0.08	4.60	0.550	0.941	-26.16	0.010	26.61	44.87	44.6	0.047
3/25/2025 17:00	17.0	8.78	274	4.39	188	0.00	-0.08	4.80	0.550	0.941	-15.33	0.010	37.44	39.48	44.6	0.041
3/25/2025 18:00	17.3	8.84	273	4.35	188	0.00	-0.08	4.93	0.550	0.941	-5.23	0.010	47.54	36.91	44.6	0.038
3/25/2025 19:00	17.3	8.66	276	4.29	188	0.01	-0.08	4.82	0.550	0.941	-7.85	0.010	44.92	37.43	44.6	0.043
3/25/2025 20:00	17.3	8.81	279	4.18	188	0.00	-0.07	4.90	0.550	0.941	4.95	0.010	57.72	42.80	44.6	0.052
3/25/2025 21:00	18.7	8.81	287	4.22	188	0.00	-0.07	5.29	0.550	0.941	23.76	0.010	76.53	46.59	44.6	0.048
3/25/2025 22:00	19.3	9.35	297	4.16	188	0.00	-0.07	5.82	0.550	0.941	56.18	0.010	108.95	54.42	44.6	0.054
3/25/2025 23:00	16.8	9.00	281	4.26	188	0.00	-0.09	4.87	0.550	0.941	-2.19	0.010	50.58	58.11	44.6	0.059
3/26/2025 0:00	15.0	8.94	282	4.31	188	0.00	-0.09	4.31	0.550	0.941	-37.86	0.010	14.91	58.13	44.6	0.059
3/26/2025 1:00	16.1	8.85	284	4.36	188	0.00	-0.09	4.59	0.550	0.941	-25.08	0.010	27.69	62.13	44.6	0.062
3/26/2025 2:00	17.2	8.88	275	4.33	188	0.00	-0.09	4.91	0.550	0.941	-5.03	0.010	47.74	63.04	44.6	0.062
3/26/2025 3:00	17.6	8.89	279	4.30	188	0.00	-0.08	5.04	0.550	0.941	4.77	0.010	57.54	66.96	44.6	0.068
3/26/2025 4:00	18.0	8.71	275	4.35	188	0.00	-0.08	5.04	0.550	0.941	1.18	0.010	53.95	61.25	44.6	0.063
3/26/2025 5:00	18.4	8.72	282	4.37	188	0.00	-0.08	5.16	0.550	0.941	7.04	0.010	59.81	61.59	44.6	0.063
3/26/2025 6:00	19.9	8.65	281	4.27	188	0.00	-0.08	5.54	0.550	0.941	35.02	0.010	87.79	61.57	44.6	0.062
3/26/2025 7:00	16.7	8.66	281	4.25	188	0.00	-0.08	4.65	0.550	0.941	-14.62	0.010	38.15	66.17	44.6	0.066
3/26/2025 8:00	16.3	8.79	281	4.26	188	0.00	-0.08	4.60	0.550	0.941	-17.74	0.010	35.03	58.42	44.6	0.059
3/26/2025 9:00	15.6	8.84	284	4.28	188	0.00	-0.08	4.44	0.550	0.941	-28.44	0.010	24.33	43.37	44.6	0.042
3/26/2025 10:00	13.0	8.79	278	4.30	188	0.00	-0.09	3.68	0.550	0.941	-72.96	0.010	0.00	23.69	44.6	0.024
3/26/2025 11:00	14.4	8.92	280	4.27	188	0.00	-0.08	4.13	0.550	0.941	-44.94	0.010	7.83	13.06	44.6	0.013
3/26/2025 12:00	15.6	8.96	293	4.36	188	0.00	-0.08	4.49	0.550	0.941	-30.19	0.010	22.58	9.49	44.6	0.010
3/26/2025 13:00	13.7	8.73	276	4.35	188	0.00	-0.08	3.85	0.550	0.941	-66.69	0.010	0.00	8.12	44.6	0.009
3/26/2025 14:00	11.9	8.55	272	4.33	188	0.00	-0.08	3.27	0.550	0.941	-99.91	0.010	0.00	6.95	44.6	0.007
3/26/2025 15:00	15.5	8.66	277	4.35	188	0.00	-0.07	4.33	0.550	0.941	-39.58	0.010	13.19	6.45	44.6	0.005
3/26/2025 16:00	14.1	8.71	271	4.28	188	0.00	-0.05	3.97	0.550	0.941	-56.39	0.010	0.00	5.71	44.5	0.005

Fuel Gas H2S Estimation

**H2S concentration in Fuel Gas is estimated using the best available data and operating information for heat and material balances, supported by the lab analysis of manual sampling.*

**For Hydrobon/Platformer fired heaters, the SO2 emissions are estimated using the measured average fuel gas flow rate and the estimated H2S concentration in the Fuel Gas.*

Date and Time	North Stack SO2	North Stack Flow	Boiler 9 Fuel Gas	Boiler 9 Fuel Oil	Boiler 13 Fuel Gas	Boiler 13 Fuel Oil	LPG Vapourization Rate	Total Boilers Sulphur Emission	LRF Sulphur Content	LRF Density	Raw Estimated Fuel Gas H2S Concentration	Lab Result Fuel Gas H2S Concentration	Corrected Estimated Fuel Gas H2S Concentration	3hr Rolling Average H2S Concentration	365 Day Rolling Average H2S Concentration	Heater SO2 Emissions
	ppmv	MMSCFH	MSCFH	GPM	MSCFH	GPM	MSCFH	kg/hr	%	kg/L	ppmv	ppmv	ppmv	ppmv	ppmv	kg/hr
3/26/2025 17:00	15.2	8.58	276	4.31	188	0.00	-0.05	4.19	0.550	0.941	-44.67	0.010	8.10	5.39	44.5	0.005
3/26/2025 18:00	13.0	8.78	285	4.36	188	0.00	-0.07	3.67	0.550	0.941	-76.24	0.010	0.00	5.16	44.5	0.005
3/26/2025 19:00	13.7	8.91	289	4.34	188	0.00	-0.07	3.92	0.550	0.941	-60.67	0.010	0.00	7.59	44.5	0.007
3/26/2025 20:00	15.6	8.52	264	4.34	193	0.00	-0.08	4.28	0.550	0.941	-42.71	0.010	10.06	7.88	44.5	0.007
3/26/2025 21:00	13.0	8.92	287	4.31	192	0.00	-0.07	3.73	0.550	0.941	-69.15	0.010	0.00	8.74	44.5	0.008
3/26/2025 22:00	13.3	8.51	252	4.53	193	0.00	-0.08	3.65	0.550	0.941	-94.58	0.010	0.00	6.70	44.5	0.006
3/26/2025 23:00	11.9	8.53	259	4.52	193	0.00	-0.08	3.28	0.550	0.941	-114.59	0.010	0.00	5.57	44.5	0.005
3/27/2025 0:00	13.0	8.46	254	4.55	193	0.00	-0.08	3.53	0.550	0.941	-102.49	0.010	0.00	3.16	44.5	0.003
3/27/2025 1:00	13.3	8.41	252	4.48	193	0.00	-0.10	3.60	0.550	0.941	-93.96	0.010	0.00	0.86	44.5	0.001
3/27/2025 2:00	12.3	8.15	242	4.51	193	0.00	-0.10	3.22	0.550	0.941	-121.19	0.010	0.00	0.32	44.5	0.000
3/27/2025 3:00	15.5	8.31	241	4.52	193	0.00	-0.10	4.14	0.550	0.941	-65.62	0.010	0.00	0.05	44.5	0.000
3/27/2025 4:00	13.8	8.30	245	4.59	193	0.00	-0.11	3.68	0.550	0.941	-98.79	0.010	0.00	0.05	44.5	0.000
3/27/2025 5:00	16.3	8.42	240	4.62	193	0.00	0.17	4.41	0.550	0.941	-56.77	0.010	0.00	0.09	44.5	0.000
3/27/2025 6:00	14.8	8.18	237	4.61	193	0.00	0.17	3.89	0.550	0.941	-88.26	0.010	0.00	0.04	44.5	0.000
3/27/2025 7:00	15.9	8.24	244	4.55	193	0.00	0.18	4.23	0.550	0.941	-62.59	0.010	0.00	0.29	44.4	0.000
3/27/2025 8:00	21.7	8.63	270	4.64	192	0.00	0.19	6.03	0.550	0.941	39.05	0.010	91.82	9.71	44.5	0.008
3/27/2025 9:00	18.1	8.39	248	4.61	192	0.01	0.17	4.88	0.550	0.941	-26.57	0.010	26.20	24.37	44.4	0.023
3/27/2025 10:00	18.5	8.29	245	4.58	193	0.00	-0.05	4.95	0.550	0.941	-20.78	0.010	31.99	34.43	44.4	0.034
3/27/2025 11:00	19.2	8.67	260	4.55	192	0.00	-0.04	5.36	0.550	0.941	6.51	0.010	59.28	38.04	44.4	0.037
3/27/2025 12:00	17.0	8.61	267	4.48	193	0.00	-0.03	4.72	0.550	0.941	-25.81	0.010	26.96	37.77	44.4	0.038
3/27/2025 13:00	18.1	8.46	262	4.50	193	0.00	-0.04	4.93	0.550	0.941	-15.19	0.010	37.58	45.65	44.4	0.040
3/27/2025 14:00	19.1	8.54	272	4.51	192	0.00	-0.03	5.26	0.550	0.941	3.32	0.010	56.09	46.54	44.4	0.041
3/27/2025 15:00	19.2	8.49	266	4.43	192	0.00	-0.01	5.24	0.550	0.941	7.27	0.010	60.04	43.54	44.4	0.037
3/27/2025 16:00	18.5	8.41	259	4.54	193	0.00	0.00	5.01	0.550	0.941	-13.53	0.010	39.24	37.04	44.4	0.030
3/27/2025 17:00	18.5	8.51	258	4.79	193	0.00	0.00	5.06	0.550	0.941	-27.35	0.010	25.41	32.87	44.4	0.027
3/27/2025 18:00	19.1	8.45	257	4.68	193	0.00	0.00	5.19	0.550	0.941	-12.78	0.010	39.99	31.91	44.4	0.027
3/27/2025 19:00	17.5	8.48	254	4.63	192	0.00	-0.01	4.77	0.550	0.941	-33.60	0.010	19.17	33.32	44.4	0.028
3/27/2025 20:00	16.3	8.79	277	4.67	193	0.00	-0.02	4.62	0.550	0.941	-43.00	0.010	9.77	34.05	44.4	0.028
3/27/2025 21:00	17.8	8.78	275	4.66	193	0.00	-0.03	5.04	0.550	0.941	-18.98	0.010	33.79	35.12	44.4	0.028
3/27/2025 22:00	15.7	8.82	272	4.48	192	0.00	-0.04	4.45	0.550	0.941	-41.18	0.010	11.59	34.33	44.4	0.028
3/27/2025 23:00	16.3	8.89	299	4.50	193	0.00	-0.05	4.67	0.550	0.941	-28.09	0.010	24.68	32.17	44.4	0.025
3/28/2025 0:00	19.3	8.75	284	4.46	192	0.00	-0.05	5.44	0.550	0.941	16.41	0.010	69.18	33.09	44.4	0.026
3/28/2025 1:00	18.1	8.65	277	4.53	193	0.00	-0.04	5.05	0.550	0.941	-9.92	0.010	42.85	39.62	44.4	0.032
3/28/2025 2:00	17.0	8.53	262	4.52	192	0.00	-0.04	4.67	0.550	0.941	-32.24	0.010	20.53	44.29	44.4	0.035
3/28/2025 3:00	20.6	8.70	268	4.55	193	0.00	-0.06	5.79	0.550	0.941	31.06	0.010	83.83	42.29	44.4	0.034
3/28/2025 4:00	17.8	8.59	271	4.51	192	0.00	-0.06	4.93	0.550	0.941	-15.33	0.010	37.44	37.29	44.4	0.032
3/28/2025 5:00	17.0	8.82	284	4.45	192	0.00	-0.06	4.84	0.550	0.941	-16.44	0.010	36.33	31.58	44.4	0.026
3/28/2025 6:00	18.1	8.55	265	4.53	193	0.00	-0.06	4.99	0.550	0.941	-13.34	0.010	39.43	28.92	44.4	0.024
3/28/2025 7:00	20.7	8.60	263	4.63	193	0.00	-0.06	5.74	0.550	0.941	23.67	0.010	76.44	25.80	44.4	0.022
3/28/2025 8:00	21.9	8.68	266	4.65	193	0.00	-0.06	6.14	0.550	0.941	45.05	0.010	97.81	39.39	44.4	0.033
3/28/2025 9:00	18.5	8.58	264	4.59	192	0.00	-0.06	5.12	0.550	0.941	-9.89	0.010	42.88	50.91	44.4	0.043
3/28/2025 10:00	17.9	8.74	267	4.52	193	0.00	-0.06	5.03	0.550	0.941	-10.72	0.010	42.04	59.96	44.4	0.051
3/28/2025 11:00	17.2	8.53	267	4.40	193	0.00	-0.06	4.72	0.550	0.941	-20.66	0.010	32.11	56.60	44.4	0.048
3/28/2025 12:00	21.2	8.67	274	4.53	193	0.00	-0.06	5.91	0.550	0.941	38.62	0.010	91.39	49.57	44.4	0.042
3/28/2025 13:00	20.0	8.61	272	4.56	193	0.00	-0.05	5.56	0.550	0.941	17.16	0.010	69.93	44.90	44.5	0.039
3/28/2025 14:00	19.1	8.70	268	4.52	192	0.00	-0.05	5.36	0.550	0.941	8.84	0.010	61.61	44.98	44.5	0.039
3/28/2025 15:00	17.2	8.64	273	4.49	192	0.00	-0.05	4.79	0.550	0.941	-22.02	0.010	30.75	48.76	44.5	0.042
3/28/2025 16:00	20.2	8.55	271	4.42	193	0.00	-0.05	5.57	0.550	0.941	27.27	0.010	80.04	55.00	44.5	0.047
3/28/2025 17:00	19.8	8.65	272	4.34	193	0.00	-0.04	5.51	0.550	0.941	28.58	0.010	81.35	66.89	44.5	0.058
3/28/2025 18:00	22.8	8.51	265	4.27	192	0.00	-0.06	6.25	0.550	0.941	77.29	0.010	130.06	86.27	44.5	0.075
3/28/2025 19:00	24.0	8.61	280	4.33	193	0.00	-0.06	6.65	0.550	0.941	93.19	0.010	145.96	109.28	44.5	0.095
3/28/2025 20:00	24.3	8.64	290	4.31	193	0.00	-0.06	6.78	0.550	0.941	99.59	0.010	152.36	121.07	44.5	0.103
3/28/2025 21:00	23.7	8.62	291	4.33	193	0.00	-0.06	6.57	0.550	0.941	86.90	0.010	139.67	131.02	44.5	0.113
3/28/2025 22:00	24.0	8.68	300	4.22	193	0.00	-0.06	6.71	0.550	0.941	99.70	0.010	152.47	134.43	44.5	0.115
3/28/2025 23:00	22.9	8.80	286	4.27	193	0.00	-0.06	6.48	0.550	0.941	86.19	0.010	138.96	143.62	44.6	0.124
3/29/2025 0:00	22.9	8.72	295	4.32	193	0.00	-0.06	6.44	0.550	0.941	79.14	0.010	131.91	147.79	44.6	0.128
3/29/2025 1:00	25.8	8.69	288	4.32	193	0.00	-0.06	7.23	0.550	0.941	124.22	0.010	176.99	158.99	44.6	0.137
3/29/2025 2:00	27.6	8.78	286	4.24	193	0.00	-0.06	7.79	0.550	0.941	161.85	0.010	214.62	166.21	44.6	0.145
3/29/2025 3:00	29.9	8.44	266	4.36	193	0.00	-0.06	8.13	0.550	0.941	179.74	0.010	232.51	189.18	44.6	0.167
3/29/2025 4:00	28.9	8.56	262	4.42	192	0.00	-0.06	7.97	0.550	0.941	168.26	0.010	221.03	202.70	44.7	0.185
3/29/2025 5:00	31.4	8.55	260	4.40	193	0.00	-0.06	8.64	0.550	0.941	209.43	0.010	262.20	221.82	44.7	0.202
3/29/2025 6:00	31.3	8.36	263	4.29	193	0.00	-0.06	8.43	0.550	0.941	203.33	0.010	256.10	231.06	44.7	0.201
3/29/2025 7:00	27.2	8.58	267	4.18	193	0.00	-0.06	7.51	0.550	0.941	156.00	0.010	208.77	246.62	44.8	0.209
3/29/2025 8:00	17.3	8.76	281	4.31	193	0.00	-0.06	4.89	0.550	0.941	-5.06	0.010	47.71	203.51	44.8	0.172
3/29/2025 9:00	19.5	8.63	268	4.35	192	0.00	-0.06	5.42	0.550	0.941	23.67	0.010	76.44	139.28	44.8	0.118
3/29/2025 10:00	17.1	8.63	273	4.31	193	0.00	-0.06	4.74	0.550	0.941	-12.96	0.010	39.81	74.39	44.8	0.063
3/29/2025 11:00	20.7	8.78	275	4.24	193	0.00	-0.06	5.84	0.550	0.941	54.15	0.010	106.92	60.05	44.8	0.051
3/29/2025 12:00	15.4	8.51	268	4.24	192	0.00	-0.06	4.22	0.550	0.941	-38.69	0.010	14.08	60.61	44.8	0.052
3/29/2025 13:00	20.5	8.57	270	4.26	193	0.00	-0.06	5.65	0.550	0.941	42.69	0.010	95.46	67.54	44.8	0.058
3/29/2025 14:00	19.9	8.65	274	4.15	201	0.00	-0.06	5.53	0.550	0.941	41.21	0.010	93.98	73.95	44.8	0.064
3/29/2025 15:00	18.1	8.30	243	4.16	201	0.00	-0.06	4.83	0.550	0.941	1.53	0.010	54.30	77.96	44.8	0.067
3/29/2025 16:00	17.2	8.12	236	4.19	202	0.00	-0.06	4.50	0.550	0.941	-20.37	0.010	32.40	67.05	44.8	0.057
3/29/2025 17:00	19.9	8.94	274	4.26	202	0.00	-0.06	5.74	0.550	0.941	46.58	0.010	99.35	62.18	44.8	0.053
3/29/2025 18:00	18.8	8.73	269	4.11	202	0.00	-0.06	5.27	0.550	0.941	30.08	0.010	82.85	64.16	44.8	0.054
3/29/2025 19:00	19.4	8.76	268	4.08	202	0.00	-0.05	5.49	0.550	0.941	44.02	0.010	96.79	78.74	44.8	0.067
3/29/2025 20:00	21.0	8.79	267	4.05	202	0.00	-0.05	5.93	0.550	0.941	71.22	0.010	123.99	87.44	44.8	0.074
3/29/2025 21:00	22.0	9.12	284	4.05	202	0.00	-0.05	6.45	0.550	0.941	97.68	0.010	150.45	99.33	44.8	0.085
3/29/2025 22:00	21.7	8.68	267	4.10	201	0.00	-0.05	6.06	0.550	0.941	75.88	0.010	128.65	102.96	44.8	0.088
3/29/2025 23:00	19.1	7.99	237	4.06	198	0.00	-0.05	4.91	0.550	0.941	14.06	0.010	66.83	109.07	44.9	0.093
3/30/2025 0:00	22.3	8.14	240	4.04	197	0.00	-0.05	5.85	0.550	0.941	72.56	0.010	125.33	108.37	44.9	0.093
3/30/2025 1:00	22.2	8.12	240	4.01	197	0.00	-0.05	5.80	0.550	0.941	71.45	0.010	124.22	121.91	44.9	0.105
3/30/2025 2:00	22.5	8.32	248	3.94	197	0.00	-0.05	6.04	0.550	0.941	89.63	0.010	142.40	130.24	44.9	0.113
3/30/2025 3:00	24.4	8.15	243	3.97	198	0.00	-0.05	6.42	0.550	0.941	111.24	0.010	164.01	138.07	44.9	0.119
3/30/2025 4:00	24.4	8.27	248	3.97	198	0.00	-0.05	6.50	0.550	0.941	115.04	0.010	167.81	129.34	44.9	0.112
3/30/2025 5:00	24.0	8.38	253	4.00	198	0.00	-0.05	6.47	0.550	0.941	109.93	0.010	162.70	127.07	44.9	0.110
3/30/2025 6:00	19.5	8.20	240	3.95	197	0.00	-0.05	5.15	0.550	0.941	36.26	0.010	89.03	125.20	45.0	0.109
3/30/2025 7:00	23.1	8.16	247	3.91	197	0.00	-0.05	6.07	0.550	0.941	93.57	0.010	146.34	139.02	45.0	0.121
3/30/2025 8:00	12.7	8.11	239	3.90	197	0.00	-0.06	3.31	0.550	0.941	-72.67	0.010	0.00	114.41	45.0	0.100
3/30/2025 9:00	13.7	8.14	245	3.84	197	0.00	-0.06	3.58	0.550	0.941	-50.98	0.010	1.79	77.17	45.0	0.068
3/30/2025 10:00	14.0	8.18	249	3.75	197	0.00	-0.06	3.68	0.550	0.941	-38.57	0.010	14.20	24.54	44.9	0.022
3/30/2025 11:00	13.4	8.16	242	3.78	197	0.00	-0.06	3.53	0.550	0.941	-50.10	0.010	2.67	10.71	44.9	0.009
3/30/2025 12:00	13.3	8.27	256	3.81	197	0.00	-0.06	3.54	0.550	0.941	-50.44	0.010	2.33	9.19	44.9	0.008
3/30/2025 13:00	17.0	8.50	264	3.89	197	0.00	-0.06	4.64	0.550	0.941	9.14	0.010	61.91	15.65	44.9	0.014
3/30/2025 14:00	15.4	8.24	246	3.82	197	0.00	-0.06	4.09	0.550	0.941	-19.09	0.010	33.68	19.44	44.9	0.017
3/30/2025 15:00	11.0	8.13	243	3.82	198	0.00	-0.06	2.88	0.550	0.941	-92.68	0.010	0.00	23.84	44.9	0.021
3/30/2025 16:00	15.4	8.30	251	3.92	197	0.00	-0.06	4.13	0.550	0.941	-23.30	0.010	29.47	19.80	44.9	0.017
3/30/2025 17:00	14.3	8.23	244	4.04	197	0.00	-0.06	3.77	0.550	0.941	-53.76	0.010	0.00	21.83	44.9	0.020
3/30/2025 18:00	14.4	8.37	259	4.05	197	0.00	-0.06	3.89	0.550	0.941	-45.60	0.010	7.17	25.85	44.9	0.023
3/30/2025 19:00	15.1	8.24	260	4.03	198	0.00	-0.06	4.02	0.550	0.941	-36.49	0.010	16.28	34.51	44.9	0.031
3/30/2025 20:00	11.7	8.13	253	4.02	198	0.00	-0.06	3.07	0.550	0.941	-92.46	0.010	0.00	38.24	44.9	0.034
3/30/2025 21:00	16.6	8.29	257	4.01	197	0.00	-0.06	4.42	0.550	0.941	-11.90	0.010	40.87	40.23	44.9	0.036
3/30/2025 22:00	14.1	8.26	254	3.96	197	0.00	-0.06	3.76	0.550	0.941	-47.67	0.010	5.10	40.13	44.9	0.036
3/30/2025 23:00	17.2	8.29	250	3.90	197	0.00	-0.06	4.60	0.550	0.941	6.56	0.010	59.33	40.99	44.9	0.036
3/31/2025 0:00	17.5	8.18	243	3.84	197	0.00	-0.06	4.60	0.550	0.941	10.38	0.010	63.15	38.24	44.9	0.034
3/31/2025 1:00	15.2	8.12	248	3.89	197	0.00	-0.06	3.98	0.550	0.941	-30.07	0.010	22.70	39.32	44.9	0.035
3/31/2025 2:00	17.2	8.09	245	3.95	198	0.00	-0.06	4.47	0.550	0.941	-4.84	0.010	47.93	41.16	44.9	0.037
3/31/2025 3:00	16.0	7.97	233	3.98	197	0.00	-0.06	4.10	0.550	0.941	-30.51	0.010	22.26	48.97	44.9	0.043
3/31/2025 4:00	15.6	8.01	252	3.99	197	0.00	-0.06	4.03	0.550	0.941	-34.12	0.010	18.65	48.31	44.9	0.043
3/31/2025 5:00	15.6	8.00	237	3.94	197	0.00	-0.06	4.03	0.550	0.941	-32.18	0.010	20.59	45.89	44.9	0.040
3/31/2025 6:00	13.4	7.91	238	3.89	197	0.00	-0.04	3.40	0.550	0.941	-66.74	0.010	0.00	38.37	44.9	0.034
3/31/2025 7:00	17.2	8.06	245	3.88	197	0.00	-0.05	4.46	0.550	0.941	-0.99	0.010	51.78	35.25	44.9	0.033
3/31/2025 8:00	15.1	8.25	247	3.85	197	0.00	-0.05	4.01	0.550	0.941	-25.91	0.010	26.86	32.46	44.9	0.029
3/31/2025 9:00	15.4	8.42	285	3.86	183	0.00	-0.05	4.19	0.550	0.941	-15.25	0.010	37.52	30.88	44.9	0.028
3/31/2025 10:00	13.3	8.40	278	3.84	183	0.00	-0.03	3.61	0.550	0.941	-47.16	0.010	5.61	30.18	44.9	0.027
3/31/2025 11:00	14.0	8.30	277	3.84	179	0.00	-0.04	3.75	0.550	0.941	-39.39	0.010	13.38	29.49	44.9	0.026
3/31/2025 12:00	15.1	8.29	279	3.83	179	0.00	-0.04	4.03	0.550	0.941	-22.88	0.010	29.89	30.93	44.9	0.027
3/31/2025 13:00	14.7	8.45	288	3.86	174	0.00	-0.04	4.00	0.550	0.941	-25.89	0.010	26.88	35.49	44.9	0.031
3/31/2025 14:00	18.1	8.40	281	3.88	174	0.00	-0.04	4.90	0.550	0.941	25.12	0.010	77.89	38.85	44.9	0.032
3/31/2025 15:00	15.9	8.38	280	3.91	174	0.00	-0.04	4.28	0.550	0.941	-13.54	0.010	39.23	39.93	44.9	0.035
3/31/2025 16:00	17.0	8.18	283	3.92	174	0.00	-0.04	4.49	0.550	0.941	-1.55	0.010	51.22	36.70	44.9	0.032
3/31/2025 17:00	15.6	8.30	278	3.91	175	0.00	-0.04	4.18	0.550	0.941	-19.22	0.010	33.55	35.71	44.9	0.032
3/31/2025 18:00	14.6	8.15	262	3.74	174	0.00	-0.05	3.84	0.550	0.941	-29.14	0.010	23.63	37.11	44.9	0.034
3/31/2025 19:00	17.0	8.31	289	3.71	174	0.00	-0.05	4.54	0.550	0.941	15.00	0.010	67.77	39.84	44.9	0.037
3/31/2025 20:00	13.2	8.33	275	3.72	174	0.00	-0.06	3.53	0.550	0.941	-45.02	0.010	7.75	42.01	44.9	0.038
3/31/2025 21:00	13.7	8.09	272	3.51	175	0.00	-0.06	3.56	0.550	0.941	-29.66	0.010	23.11	42.88	44.9	0.040
3/31/2025 22:00	10.6	8.41	277	3.67	175	0.00	-0.06	2.87	0.550	0.941	-80.36	0.010	0.00	42.11	44.9	0.039
3/31/2025 23:00	12.1	8.68	291	3.69	174	0.00	-0.06	3.39	0.550	0.941	-49.42	0.010	3.35	39.34	44.8	0.036

Fuel Gas H2S Estimation

**H2S concentration in Fuel Gas is estimated using the best available data and operating information for heat and material balances, supported by the lab analysis of manual sampling.*

**For Hydrobon/Platformer fired heaters, the SO2 emissions are estimated using the measured average fuel gas flow rate and the estimated H2S concentration in the Fuel Gas.*

Date and Time	North Stack SO2	North Stack Flow	Boiler 9 Fuel Gas	Boiler 9 Fuel Oil	Boiler 13 Fuel Gas	Boiler 13 Fuel Oil	LPG Vapourization Rate	Total Boilers Sulphur Emission	LRF Sulphur Content	LRF Density	Raw Estimated Fuel Gas H2S Concentration	Lab Result Fuel Gas H2S Concentration	Corrected Estimated Fuel Gas H2S Concentration	3hr Rolling Average H2S Concentration	365 Day Rolling Average H2S Concentration	Heater SO2 Emissions
	ppmv	MMSCFH	MSCFH	GPM	MSCFH	GPM	MSCFH	kg/hr	%	kg/L	ppmv	ppmv	ppmv	ppmv	ppmv	kg/hr
4/1/2025 0:00	16.6	8.36	272	3.69	174	0.00	-0.06	4.46	0.550	0.941	12.01	0.010	64.78	41.28	44.8	0.037

Fuel Gas Lab Results

Date and Time	Hydrogen Sulphide ppmv
12/30/2024 4:30	53.10
1/1/2025 23:00	0.15
1/3/2025	0.01
1/6/2025 23:00	0.01
1/8/2025 23:00	0.15
1/10/2025 23:00	0.01
1/13/2025 23:00	0.01
1/15/2025 23:00	6.50
1/17/2025 23:00	0.03
1/20/2025 23:00	0.04
1/22/2025 23:00	0.02
1/24/2025 23:00	87.90
1/25/2025 23:00	0.14
1/29/2025 23:00	0.13
1/31/2025 23:00	4.51
2/3/2025 23:00	0.11
2/5/2025 23:00	0.20
2/6/2025 23:00	0.75
2/10/2025 23:00	0.79
2/14/2025 23:00	34.40
2/19/2025 23:00	0.10
2/21/2025 23:00	0.06
2/24/2025 23:00	0.01
2/26/2025 23:00	0.01
2/28/2025 23:00	0.01
3/3/2025 23:00	0.01
3/5/2025 23:00	0.17
3/7/2025 23:00	0.01
3/10/2025 23:00	0.01
3/12/2025 23:00	0.01
3/14/2025 23:00	0.82
3/17/2025 14:00	1.62
3/17/2025 23:00	0.01
3/21/2025 23:00	15.70
3/24/2025 23:00	0.01

Flare Sulphur Emissions

** Data reported below is ONLY covering the times the flares were actively flaring process gasses*

**The Flare Gas compositions are estimated based on the heat and material balance, and lab analysis of flare header samples and unit operations*

= Flare Not Active This Event

	Historian Data													Calculated Data		
	Flare Header Pressure	Flare Gas Compressor Spillback	Flare Flow Meter			36inch Pilots			36inch Steam OP	24inch Pilots		24inch Steam	Ambient Temperature	Water Vapour /Partial Pressure	Water	Hydrogen Sulphide
	20_PI947	03PC105	14_FR631	14_FI631	14_MI631	98_TI401	98_TI401	98_TI401	98_FC40	98_TI402	98_TI402	98_FC40	14_TI1006			
	PSIG	%	KSCFH	KLB/HR	LB/LB-MOL	DEGF	DEGF	DEGF	%	DEGF	DEGF	%	DEGF	PSIA	Mol %	mol%
1/3/2025 13:30	0.73	19.7	53.64	8.00	48.25	713	751	810	-6.90	1037	1021	-6.9	35.7	0.103	0.67	0.36
1/3/2025 13:45	1.41	24.0	38.72	6.69	44.42	722	745	807	-6.90	1030	1013	-6.9	33.3	0.093	0.58	0.36
1/3/2025 14:00	1.00	23.8	66.82	7.70	48.25	737	740	786	-6.90	1073	1026	-6.9	35.0	0.100	0.64	0.36
1/9/2025 13:30	0.87	26.7	44.36	5.43	44.67	751	741	753	-6.90	1105	1045	-6.9	30.0	0.082	0.52	0.36
1/9/2025 13:45	1.34	28.2	55.42	6.71	42.55	750	745	776	-6.90	1080	1033	-6.9	31.1	0.085	0.53	0.36
1/9/2025 14:00	1.46	29.2	58.89	5.70	39.12	750	739	758	-6.90	1107	1046	-6.9	31.5	0.087	0.54	0.36
1/9/2025 14:15	1.45	30.0	48.43	4.47	44.00	751	760	763	-6.90	1081	1037	-6.9	31.6	0.087	0.54	0.36
1/9/2025 14:30	1.46	30.0	41.12	5.30	42.60	763	772	766	-6.90	1065	1022	-6.9	31.4	0.086	0.53	0.36
1/9/2025 14:45	1.47	30.0	45.10	5.27	42.57	756	747	765	-6.90	1098	1050	-6.9	32.4	0.090	0.56	0.36
1/9/2025 15:00	1.36	27.2	45.01	5.75	43.12	753	774	759	-6.90	1138	1043	-6.9	31.9	0.088	0.55	0.36
1/9/2025 15:15	0.95	25.0	61.68	6.02	43.73	747	755	795	-6.90	1067	1017	-6.9	30.6	0.083	0.53	0.36
1/9/2025 15:30	0.80	25.6	52.78	5.67	44.64	747	751	799	-6.90	1046	1015	-6.9	29.4	0.079	0.51	0.36
1/10/2025 12:45	0.88	25.85	40.94	4.83	43.25	737.59	771.67	716.51	-6.90	1017.46	1138.72	-6.90	26.80	0.07	0.46	0.36
1/10/2025 13:00	1.84	27.54	75.70	5.85	29.17	760.07	771.53	739.11	-6.90	992.18	1135.23	-6.90	27.99	0.07	0.45	0.36
1/10/2025 13:15	1.91	35.00	76.14	7.19	27.27	789.09	762.80	783.28	-6.90	977.01	1123.02	-6.90	27.81	0.07	0.45	0.36
1/10/2025 13:30	1.71	35.00	120.62	8.06	25.81	759.10	748.10	770.71	-6.90	983.00	1094.72	-6.90	27.98	0.07	0.46	0.36
1/10/2025 13:45	1.81	35.00	84.75	7.30	26.94	730.00	724.52	762.73	-6.90	984.10	1063.73	-6.90	28.75	0.08	0.47	0.36
1/10/2025 14:00	1.58	35.00	57.08	6.86	25.37	725.52	722.82	758.27	-6.90	984.83	1062.47	-6.90	28.73	0.08	0.47	0.36
1/10/2025 14:15	1.55	22.09	91.32	6.43	25.57	739.67	737.25	757.57	-6.90	993.62	1091.12	-6.90	28.00	0.07	0.46	0.36
1/10/2025 14:30	1.47	30.00	68.87	5.51	26.86	738.93	737.14	751.72	-6.90	998.17	1106.64	-6.90	28.04	0.08	0.46	0.36
1/10/2025 14:45	1.45	30.00	87.77	7.18	25.14	742.80	748.84	742.73	-6.90	1007.93	1114.93	-6.90	28.39	0.08	0.47	0.36
1/10/2025 15:00	1.44	30.00	49.80	4.69	25.80	740.15	735.69	747.24	-6.90	1012.22	1108.30	-6.90	29.03	0.08	0.48	0.36
1/10/2025 15:15	1.38	25.40	84.81	6.47	26.23	751.10	749.72	758.09	-6.90	1005.81	1121.95	-6.90	29.42	0.08	0.49	0.36
1/10/2025 15:30	1.55	21.70	90.64	6.28	26.51	788.68	740.29	824.14	-6.90	961.01	1149.01	-6.90	29.83	0.08	0.50	0.36
1/10/2025 15:45	1.42	30.00	88.70	6.01	26.39	838.90	732.08	852.54	-6.90	927.68	1171.53	-6.90	29.74	0.08	0.50	0.36
1/10/2025 16:00	1.50	28.16	69.29	4.90	27.41	804.65	736.20	839.45	-6.90	956.55	1145.58	-6.90	29.64	0.08	0.50	0.36
1/10/2025 16:15	1.55	28.00	80.13	5.09	33.25	843.23	732.64	857.69	-6.90	930.63	1164.06	-6.90	29.60	0.08	0.49	0.36
1/10/2025 16:30	1.68	28.00	78.09	10.13	49.70	802.90	728.96	833.47	-6.90	946.02	1127.38	-6.90	29.37	0.08	0.48	0.36
1/10/2025 16:45	1.86	28.00	84.89	13.42	60.00	765.27	726.73	797.87	-6.90	963.74	1089.99	-6.90	29.41	0.08	0.48	0.36
1/10/2025 17:00	1.65	28.00	84.89	13.42	60.00	760.39	729.32	803.94	-6.90	952.63	1119.42	-6.90	29.57	0.08	0.49	0.36
1/10/2025 17:15	1.49	29.44	130.05	7.14	32.39	738.90	722.64	773.90	-6.90	968.20	1066.06	-6.90	29.41	0.08	0.49	0.36
1/10/2025 17:30	1.37	30.00	94.83	6.69	24.67	737.78	720.56	787.75	-6.90	961.41	1066.09	-6.90	29.65	0.08	0.50	0.36
1/10/2025 17:45	1.31	30.00	141.05	7.25	22.38	730.72	721.54	779.73	-6.90	969.27	1050.28	-6.90	29.59	0.08	0.50	0.36
1/10/2025 18:00	1.23	30.00	98.79	7.66	24.29	728.10	717.46	781.27	-6.90	976.30	1062.97	-6.90	29.53	0.08	0.50	0.36
1/10/2025 18:15	1.12	30.00	159.47	7.74	21.01	726.34	714.20	776.50	-6.90	983.44	1071.27	-6.90	29.55	0.08	0.51	0.36
1/10/2025 18:30	1.08	30.00	157.04	7.34	23.48	737.02	723.53	782.81	-6.90	973.04	1050.36	-6.90	29.25	0.08	0.50	0.36
1/10/2025 18:45	1.07	30.00	111.46	6.70	23.65	734.55	721.71	783.87	-6.90	952.18	1032.59	-6.90	28.56	0.08	0.49	0.36
1/10/2025 19:00	1.07	30.00	95.87	5.96	23.25	730.55	705.85	776.66	-6.90	978.90	1071.27	-6.90	27.97	0.07	0.47	0.36
1/10/2025 19:15	1.07	30.00	125.82	5.99	24.91	737.10	706.20	765.16	-6.90	1007.26	1070.45	-6.90	27.16	0.07	0.46	0.36
1/10/2025 19:30	1.07	30.00	121.74	6.63	23.92	734.32	710.10	769.48	-6.90	1003.20	1072.67	-6.90	26.85	0.07	0.45	0.36
1/10/2025 19:45	1.08	30.00	128.50	7.66	23.36	741.70	704.93	766.76	-6.90	1007.80	1069.73	-6.90	26.63	0.07	0.45	0.36
1/10/2025 20:00	1.07	30.00	102.00	5.08	24.08	745.26	711.31	769.20	-6.90	996.03	1052.77	-6.90	26.76	0.07	0.45	0.36
1/10/2025 20:15	1.07	30.00	84.52	4.46	24.15	749.36	696.74	765.51	-6.90	1013.23	1084.50	-6.90	27.03	0.07	0.46	0.36
1/10/2025 20:30	1.06	30.00	141.84	7.09	21.88	753.37	695.86	765.68	-6.90	1025.22	1085.55	-6.90	26.76	0.07	0.45	0.36
1/10/2025 20:45	1.05	29.09	106.39	6.88	24.39	745.84	702.76	766.62	-6.90	1014.56	1070.18	-6.90	26.55	0.07	0.45	0.36
1/10/2025 21:00	1.04	28.00	109.82	7.62	20.42	743.84	703.87	763.65	-6.90	1014.52	1071.31	-6.90	26.49	0.07	0.45	0.36
1/10/2025 21:15	1.00	26.05	123.10	8.44	22.54	747.96	691.70	758.22	-6.90	1020.07	1071.84	-6.90	26.41	0.07	0.45	0.36
1/10/2025 21:30	0.99	24.00	130.18	6.99	22.21	748.71	694.92	759.91	-6.90	1007.47	1071.40	-6.90	26.29	0.07	0.45	0.36
1/10/2025 21:45	0.96	24.00	94.53	5.70	24.47	760.25	693.66	762.90	-6.90	1013.46	1064.37	-6.90	26.39	0.07	0.45	0.36
1/10/2025 22:00	0.99	24.00	122.63	6.65	23.99	764.20	700.95	764.05	-6.90	1013.21	1068.07	-6.90	26.42	0.07	0.45	0.36
1/10/2025 22:15	1.02	24.00	128.26	7.66	23.56	765.13	695.97	761.23	-6.90	1026.55	1079.93	-6.90	26.41	0.07	0.45	0.36
1/10/2025 22:30	1.00	24.00	119.58	6.13	22.73	763.54	696.28	760.66	-6.90	1040.90	1096.67	-6.90	26.25	0.07	0.44	0.36
1/10/2025 22:45	0.99	24.00	110.07	6.49	22.05	764.83	692.15	759.43	-6.90	1058.59	1105.44	-6.90	25.84	0.07	0.44	0.36
1/10/2025 23:00	0.98	22.49	93.26	6.78	23.90	753.83	681.56	744.56	-6.90	1064.25	1102.40	-6.90	25.39	0.07	0.43	0.36
1/10/2025 23:15	0.95	20.04	102.68	6.10	24.33	753.26	677.13	738.61	-6.90	1061.24	1104.47	-6.90	25.21	0.07	0.43	0.36
1/10/2025 23:30	0.96	19.80	113.79	6.49	23.97	758.00	673.57	730.43	-6.90	1062.07	1116.57	-6.90	25.27	0.07	0.43	0.36
1/10/2025 23:45	0.97	16.62	107.88	7.39	24.49	756.39	682.48	728.56	-6.90	1065.90	1120.23	-6.90	25.13	0.07	0.42	0.36
1/11/2025 0:00	0.98	13.83	114.65	7.73	23.81	753.34	702.52	735.61	-6.90	1059.21	1103.03	-6.90	24.99	0.07	0.42	0.16
1/11/2025 0:15	0.95	23.85	94.65	7.17	26.61	752.52	685.14	742.60	-6.90	1063.34	1067.15	-6.90	25.12	0.07	0.43	0.16
1/11/2025 0:30	0.91	21.80	80.56	7.21	29.86	758.02	689.88	747.65	-6.90	1072.52	1073.98	-6.90	25.50	0.07	0.43	0.16
1/11/2025 0:45	1.04	19.38	94.85	6.85	29.81	761.53	694.36	747.16	-6.90	1067.34	1084.97	-6.90	25.47	0.07	0.43	0.16
1/11/2025 1:00	0.93	21.90	85.59	6.19	28.10	748.32	683.75	753.56	-6.90	1057.72	1056.60	-6.90	25.23	0.07	0.43	0.16
1/11/2025 1:15	1.47	20.00	89.78	5.76	29.56	749.25	682.70	758.89	-6.90	1058.17	1065.67	-6.90	25.20	0.07	0.41	0.16
1/11/2025 1:30	1.30	20.00	74.01	5.62	29.60	767.06	701.63	762.50	-6.90	1063.71	1091.62	-6.90	25.36	0.07	0.42	0.16
1/11/2025 1:45	1.31	20.00	84.74	6.14	31.83	777.08	723.88	759.93	-6.90	1073.04	1113.91	-6.90	25.64	0.07	0.42	0.16
1/11/2025 2:00	1.57	20.00	101.99	7.13	30.24	776.87	724.95	763.20	-6.90	1072.18	1107.23	-6.90	25.33	0.07	0.41	0.16
1/11/2025 2:15	1.53	20.00	111.68	6.68	32.07	765.79	696.54	773.01	-6.90	1071.26	1088.51	-6.90	25.31	0.07	0.41	0.16
1/11/2025 2:30	1.54	20.00	118.57	6.63	32.17	761.07	696.83	774.86	-6.90	1072.92	1086.89	-6.90	25.24	0.07	0.41	0.16
1/11/2025 2:45	1.69	20.00	81.09	6.61	30.70	766.61	694.22	775.89	-6.90	1067.92	1079.39	-6.90	25.24	0.07	0.41	0.16
1/11/2025 3:00	1.40	19.82	45.91	4.97	33.42	774.58	695.97	774.45	-6.90	1063.81	1091.15	-6.90	25.41	0.07	0.42	0.16
1/11/2025 3:15	1.13	14.07	56.51	6.56	34.36	770.92	690.66	776.61	-6.90	1061.97	1095.54	-6.90	25.49	0.07	0.43	0.16
1/11/2025 3:30	1.01	12.00	77.35	5.70	34.64	769.91	687.13	777.03	-6.90	1055.58	1088.19	-6.90	25.80	0.07	0.44	0.16
1/11/2025 3:45	1.00	10.16	65.17	6.09	34.89	767.92	684.12	771.65	-6.90	1051.47	1085.30	-6.90	25.87	0.07	0.44	0.16
1/11/2025 4:00	0.99	10.00	81.61	6.13	34.38	763.15	677.56	756.17	-6.90	1054.63	1102.47	-6.90	26.13	0.07	0.44	0.16
1/11/2025 4:15	0.99	10.00	68.84	6.59	34.62	752.50	687.23	742.92	-6.90	1064.77	1147.19	-6.90	26.43	0.07	0.45	0.16
1/11/2025 4:30	0.99	10.00	59.39	5.40	34.00	758.22	664.89	735.67	-6.90	1080.85	1178.11	-6.90	26.09	0.07	0.44	0.16
1/11/2025 4:45	0.97	10.00	54.75	5.02	34.88	753.58	662.94	715.14	-6.90	1088.11	1177.61	-6.90	26.15	0.07	0.44	0.16
1/11/2025 5:00	1.12	10.00	38.61	6.41	33.51	754.89	660.69	716.28	-6.90	1087.94	1167.28	-6.90	26.37	0.07	0.44	0.16
1/11/2025 5:15	0.98	10.00	41.01	5.22	35.27	749.50	683.90	716.14	-6.90	1089.30	1177.78	-6.90	26.20	0.07	0.44	0.16
1/11/2025 5:30	0.99	10.00	42.36	6.47	34.99	750.17	695.93	717.17	-6.90	1092.78	1199.84	-6.90	26.40	0.07	0.45	0.16
1/11/2025 5:45	0.99	10.00	83.24	6.42	35.14	749.88	731.87	722.41	-6.90	1097.32	1204.46	-6.90	25.50	0.07	0.43	0.16
1/11/2025 6:00	0.99	10.00	75.61	5.48	35.46	760.04	695.96	728.41	-6.90	1091.67	1198.90	-6.90	24.98	0.07	0.42	0.16
1/11/2025 6:15	1.00	10.00	48.85	5.64	36.91	753.38	722.62	731.55	-6.90	1090.80	1206.68	-6.90	25.27	0.07	0.43	0.16
1/11/2025 6:30	1.01	10.00	40.76	5.94	35.37	752.13	671.59	719.88	-6.90	1095.53	1203.76	-6.90	26.31	0.07	0.45	0.16
1/11/2025 6:45	1.00	10.00	74.54	6.91	35.92	744.40	690.24	720.41	-6.90	1097.01	1199.18	-6.90	26.72	0.07	0.45	0.16
1/11/2025 7:00	1.02	10.00	86.09	6.76	34.54	749.93	678.07	716.76	-6.90	1091.30	1193.37	-6.90	26.81	0.07	0.45	0.16
1/11/2025 7:15	1.02	10.00	54.32	5.20	36.30	766.03	671.24	725.20	-6.90	1083.31	1137.41	-6.90	26.82	0.07	0.45	0.16
1/11/2025 7:30	1.02	10.00	57.72	5.32	35.63	760.47	674.74	725.18	-6.90	1068.70	1109.71	-6.90	26.43	0.07	0.45	0.16
1/11/2025 7:45	1.03	10.00	68.16	5.52	36.03	760.91	701.82	730.09	-6.90	1058.77	1108.87	-6.90	26.35	0.07	0.45	0.16
1/11/2025 8:00	1.05	10.00	64.40	5.49	36.58	762.02	695.69	737.87	-6.90	1056.89	1096.07	-6.90	26.09	0.07	0.44	0.16
1/11/2025 8:15	1.04	10.00	55.06	5.81	37.18	756.06	674.38	726.46	-6.90	1053.28	1087.32	-6.90	26.58	0.07	0.45	0.16
1/11/2025 8:30	1.03	10.00	90.78	6.76	33.70	758.28	673.46	722.99	-6.90	1060.78	1114.15	-6.90	27.32	0.07	0.46	0.16
1/11/2025 8:45	0.98	10.00	62.38	5.09	34.71	750.46	679.55	724.18	-6.90	1054.58	1088.74	-6.90	27.99	0.07	0.48	0.16
1/11/2025 9:00	0.99	10.00	79.60	6.51	35.23	753.33	690.65	724.84	-6.90	1051.17	1075.34	-6.90	28.42	0.08	0.49	0.16
1/11/2025 9:15	1.00	10.00	73.65	6.41	35.66	746.09	689.83	724.04	-6.90	1043.57	1066.54	-6.90	28.72	0.08	0.49	0.16
1/11/2025 9:30	1.01	10.00	80.43	6.12	34.84	745.57	694.51	732.92	-6.90	1045.21	1083.76	-6.90	30.07	0.08	0.52	0.16
1/11/2025 9:45	1.01	10.00	65.54	6.40	34.47	742.78	692.62	735.99	-6.90	1055.13	1103.49	-6.90	31.24	0.09	0.55	0.16
1/11/2025 10:00	1.01	10.00	70.12	5.76	35.25	740.58	692.42	733.76	-6.90	1048.28	1087.97	-6.90	32.74	0.09	0.58	0.16
1/11/2025 10:15	1.02	10.00	65.37	5.04	34.64	743.31	691.44	733.64	-6.90	1061.43	1120.78	-6.90	34.61	0.10	0.62	0.15
1/11/2025 10:30	1.02	10.00	62.67	7.13	34.77	738.66	696.40	736.30	-6.90	1062.22	1121.26	-6.90	35.87	0.10	0.66	0.15
1/11/2025 10:45	1.04	10.00	57.35	5.65	35.19	744.24	702.44	729.18	-6.90	1061.27	1091.92	-6.90	37.41	0.11	0.70	0.15
1/11/2025 11:00	1.04	10.00	86.98	5.74	34.67	748.91	701.20	738.77	-6.90	1068.62	1082.39	-6.90	37.20	0.11	0.69	0.15
1/11/2025 11:15	1.04	10.00	59.37	6.97	33.79	760.15	711.34	737.82	-6.90	1084.98	1069.49	-6.90	36.98	0.11	0.69	0.15
1/11/2025 11:30	1.05	10.00	66.32	6.12	34.35	753.81	710.67	755.55	-6.90	1082.92	1053.91	-6.90	35.33	0.10	0.64	0.15
1/11/2025 11:45	1.06	10.00	44.86	5.76	35.86	754.77	713.25	766.19	-6.90	1082.04	1062.06	-6.90	35.05	0.10	0.63	0.15
1/11/2025 12:00	1.07	10.00	63.92	6.15	34.91	764.29	708.27	772.82	-6.90	1091.09	1077.21	-6.90	38.00	0.11	0.71	0.15
1/11/2025 12:15	1.07	10.00	71.69	6.89	34.54	759.32	713.12	775.74	-6.90	1092.54	1073.45	-6.90	38.37	0.11	0.72	0.15
1/11/2025 12:30	1.10	10.00	67.69	5.71	33.96	767.56	715.40	773.30	-6.90	1095.63	1071.50	-6.90	39.37	0.12	0.75	0.15
1/11/2025 12:45	1.08	10.00	62.92	5.33	32.78	783.36	737.14	758.22	-6.90	1092.24	1074.52	-6.90	41.80	0.13	0.83	0.15
1/11/2025 13:00	1.06	10.00	80.78	6.68	33.79	759.73	776.61	733.29	-6.90	1111.89	1055.86	-6.90	42.49	0.13	0.85	0.15
1/11/2025 13:15	1.04	10.00	63.56	6.55	34.86	769.51	733.30	766.46	-6.90	1094.12	1050.75	-6.90	39.36	0.12	0.75	0.15
1/11/2025 13:30	1.03	10.00	57.59	5.62	35.11	760.79	720.15	782.12	-6.90	1085.07	1043.67	-6.90	36.53	0.11	0.67	0.15
1/11/2025 13:45	0.90	15.57	56.61	4.84	36.01	753.37	711.65	805.94	-6.90	1104.55	1041.32	-6.90	37.00	0.11	0.69	0.15
1/11/2025 14:00	1.13	59.58	40.70	5.65	40.15	750.05	712.94	819.47	-6.90	1092.72	1034.68	-6.90	37.18	0.11	0.69	0.15
1/11/2025 14:15	0.47	23.33	39.83	4.62	42.63	762.29	714.39	787.36	-6.90	1082.43	1048.48	-6.90	39.78	0.12	0.79	0.15
1/11/2025 14:30	0.62	25.00	45.94	5.09	41.98	758.24	726.50	780.48	-6.90	1051.15	1053.06	-6.90	40.03	0.12	0.79	0.15
1/11/2025 14:45	0.67	25.00	34.95	2.25	46.10	756.76	720.06	778.54	-6.90	1030.22	1059.20	-6.90	41.64	0.13	0.84	0.15
1/15/2025 10:00	0.74	22.15	50.54	5.55	41.67	757.54	711.23	781.16	-6.90	1073.64	1036.10	-6.90	24.90	0.07	0.43	0.16
1/15/2025 10:15	1.32	20.00	89.32	9.11	37.31	766.68	713.93	772.16	-6.90	1084.09	1044.02	-6.90	26.19	0.07	0.43	0.16
1/15/2025 10:30	1.21	20.00	61.83	6.24	36.93	758.60	717.97	767.14	-6.90	1062.14	1052.07	-6.90	26.21	0.07	0.44	0.16
1/15/2025 10:45	1.21	20.00	44.21	6.52	37.21	754.22	722.66	773.28	-6.90	1080.48	1051.42	-6.90	26.67	0.07	0.45	0.16
1/15/2025 11:00	1.23	20.00	74.23	6.68	37.82	756.87	721.52	768.05	-6.90	1064.94	1055.67	-6.90	27.52	0.07	0.46	0.16
1/15/2025 11:15	1.18	15.91	80.17	7.67	36.46	754.26	727.56	766.56	-6.90	1064.86	1069.88	-6.90	27.96	0.07	0.47	0.16
1/15/2025 11:30	1.19	8.77	37.04	5.46	37.45	757.02	719.62	761.45	-6.90	1075.57	1048.63	-6.90	27.85	0.07	0.47	0.16
1/15/2025 11:45	1.20	20.00	74.87	6.59	37.02	756.23	726.31	765.06	-6.90	1047.18	1055.31	-6.90	28.99	0.08	0.49	0.16
1/15/2025 12:00	1.23	20.00	63.00	6.51	36.50	751.85	720.96	767.80	-6.90	1067.84	1062.33	-6.90	28.50	0.08	0.48	0.16
1/15/2025 12:15	1.24	20.00	63.51	6.11	38.17	750.34	721.91	762.04	-6.90	1064.20	1045.05	-6.90	29.49	0.08	0.50	0.16
1/15/2025 12:30	1.22	18.33	62.39	5.76	38.26	756.40	731.99	765.28	-6.90	1048.74	1056.71	-6.90	29.59	0.08	0.50	0.16
1/15/2025 12:45	1.24	20.00	59.79	5.94	37.02	754.45	741.48	765.18	-6.90	1041.96	1060.14	-6.90	29.80	0.08	0.51	0.16
1/15/2025 13:00	1.25	20.00	66.81	5.44	37.64	753.25	737.75	767.69	-6.90	1027.79	1053.65	-6.90	29.89	0.08	0.51	0.16
1/15/2025 13:15	1.25	20.00	66.11	6.57	37.91	753.71	748.32	764.64	-6.90	1025.49	1043.07	-6.90	29.55	0.08	0.50	0.16
1/15/2025 13:30	1.26	20.00	60.21	5.25	36.73	757.39	747.53	763.10	-6.90	1028.50	1044.98	-6.90	29.46	0.08	0.50	0.16
1/15/2025 13:45	1.23	20.00	65.99	7.57	38.51	746.22	746.60	764.55	-6.90	1061.46	1028.80	-6.90	29.13	0.08	0.49	0.16
1/15/2025 14:00	1.25	20.00	80.83	6.25	37.25	749.79	754.00	770.26	-6.90	1066.03	1023.45	-6.90	28.98	0.08	0.49	0.16
1/15/2025 14:15	1.26	20.00	50.28	6.31	37.90	753.55	752.52	768.72	-6.90	1047.21	1029.21	-6.90	29.03	0.08	0.49	0.16
1/15/2025 14:30	1.26	20.00	63.00	5.73	37.19	750.99	741.30	768.92	-6.90	1061.63	1032.28	-6.90	28.73	0.08	0.48	0.16
1/15/2025 14:45	1.27	20.00	40.85	5.11	38.18	752.36	751.59	767.71	-6.90	1041.38	1041.22	-6.90	28.94	0.08	0.49	0.16
1/15/2025 15:00	1.27	20.00	85.47	7.23	37.44	751.80	742.67	768.21	-6.90	1053.13	1035.81	-6.90	28.74	0.08	0.48	0.16
1/15/2025 15:15	1.27	20.00	77.44	6.74	37.48	753.16	757.68	767.58	-6.90	1048.31	1033.30	-6.90	28.66	0.08	0.48	0.16
1/15/2025 15:30	1.26	18.61	84.35	6.24	37.81	751.68	755.60	769.57	-6.90	1045.19	1027.80	-6.90	28.64	0.08	0.48	0.16
1/15/2025 15:45	1.26	18.93	64.32	6.32	36.90	754.68	763.30	769.70	-6.90	1044.68	1026.70	-6.90	28.31	0.08	0.48	0.16
1/15/2025 16:00	1.27	20.00	60.20	5.40	37.42	746.44	756.20	769.65	-6.90	1046.65	1022.64	-6.90	27.95	0.07	0.47	0.16
1/15/2025 16:15	1.28	20.00	75.47	6.60	37.05	754.60	771.22	770.23	-6.90	1045.93	1024.17	-6.90	27.43	0.07	0.46	0.16
1/15/2025 16:30	1.28	20.00	60.63	5.95	36.52	750.98	764.78	776.42	-6.90	1038.69	1019.88	-6.90	27.34	0.07	0.46	0.16
1/15/2025 16:45	1.29	20.00	45.53	5.91	37.87	753.44	756.03	773.74	-6.90	1044.80	1020.21	-6.90	27.31	0.07	0.46	0.16
1/15/2025 17:00	1.31	20.00	82.57	6.89	37.34	753.32	766.32	770.65	-6.90	1042.59	1023.55	-6.90	27.10	0.07	0.45	0.16
1/15/2025 17:15	1.31	20.00	61.90	5.96	37.49	751.48	747.44	768.91	-6.90	1049.00	1029.54	-6.90	27.02	0.07	0.45	0.16
1/15/2025 17:30	1.31	20.00	60.40	6.24	36.47	756.14	751.24	770.93	-6.90	1030.82	1041.22	-6.90	26.73	0.07	0.44	0.16
1/15/2025 17:45	1.31	20.00	55.11	6.39	37.68	751.16	756.59	767.32	-6.90	1042.71	1024.85	-6.90	26.24	0.07	0.44	0.16
1/15/2025 18:00	1.32	20.00	64.01	6.15	37.86	753.70	760.18	769.90	-6.90	1048.37	1028.21	-6.90	26.13	0.07	0.43	0.16
1/15/2025 18:15	1.32	20.00	55.19	5.89	37.69	750.53	745.59	770.95	-6.90	1045.56	1032.37	-6.90	25.75	0.07	0.43	0.16
1/15/2025 18:30	1.32	20.00	60.66	5.37	38.15	750.86	738.48	771.21	-6.90	1031.94	1042.20	-6.90	25.60	0.07	0.42	0.16
1/15/2025 18:45	1.32	20.00	53.52	5.48	36.68	753.21	744.06	768.84	-6.90	1029.42	1034.24	-6.90	25.40	0.07	0.42	0.16
1/15/2025 19:00	1.32	20.00	32.49	5.62	37.14	756.85	760.07	768.07	-6.90	1050.49	1026.11	-6.90	24.86	0.07	0.41	0.16
1/15/2025 19:15	1.33	20.00	62.92	5.20	37.72	749.52	749.15	773.56	-6.90	1027.63	1034.06	-6.90	24.25	0.06	0.40	0.16
1/15/2025 19:30	1.34	20.00	56.54	5.11	37.71	755.51	769.71	770.32	-6.90	1039.25	1025.63	-6.90	23.57	0.06	0.39	0.16
1/15/2025 19:45	1.34	20.00	67.36	6.43	36.88	752.30	761.19	775.65	-6.90	1025.41	1028.87	-6.90	23.49	0.06	0.39	0.16
1/15/2025 20:00	1.32	20.00	60.80	5.00	37.05	756.52	774.63	778.11	-6.90	1043.94	1026.55	-6.90	23.16	0.06	0.38	0.16
1/15/2025 20:15	1.33	20.00	59.16	6.32	36.70	754.06	751.80	776.08	-6.90	1031.03	1038.64	-6.90	23.34	0.06	0.39	0.16
1/15/2025 20:30	1.34	20.00	63.23	7.03	36.72	732.18	722.47	767.44	-6.90	994.39	1059.36	-6.90	23.42	0.06	0.39	0.16
1/15/2025 20:45	1.33	20.00	59.16	5.88	37.74	730.49	724.24	776.02	-6.90	975.84	1054.58	-6.90	23.18	0.06	0.38	0.16
1/15/2025 21:00	1.34	20.00	55.60	6.52	36.73	730.79	728.03	772.49	-6.90	974.48	1050.84	-6.90	23.11	0.06	0.38	0.16
1/15/2025 21:15	1.34	20.00	28.45	5.99	37.13	733.91	731.69	777.54	-6.90	963.64	1043.60	-6.90	23.08	0.06	0.38	0.16
1/15/2025 21:30	1.34	20.00	60.01	5.82	37.45	733.79	731.89	775.48	-6.90	957.83	1037.95	-6.90	22.81	0.06	0.38	0.16
1/15/2025 21:45	1.34	20.00	72.56	6.25	37.85	734.40	730.49	780.16	-6.90	959.77	1037.35	-6.90	22.99	0.06	0.38	0.16
1/15/2025 22:00	1.18	16.12	53.01	6.26	37.27	732.96	729.47	780.50	-6.90	958.50	1039.14	-6.90	23.20	0.06	0.39	0.16
1/15/2025 22:15	1.08	16.70	54.97	5.82	38.34	728.15	725.26	771.51	-6.90	977.00	1055.33	-6.90	23.07	0.06	0.39	0.16
1/15/2025 22:30	1.08	17.08	36.84	5.80	39.25	726.12	724.87	772.38	-6.90	977.71	1061.45	-6.90	22.93	0.06	0.38	0.16
1/16/2025 22:00	1.17	14.23	65.56	7.00	43.98	739.59	745.23	765.61	-6.90	1083.53	1027.05	-6.90	30.81	0.08	0.53	0.16
1/16/2025 22:15	1.20	10.65	62.66	7.20	42.13	746.04	761.61	765.98	-6.90	1067.46	1017.29	-6.90	31.19	0.09	0.54	0.16
1/16/2025 22:30	1.29	5.99	98.85	8.68	38.62	748.56	759.69	766.23	-6.90	1046.76	1018.54	-6.90	31.34	0.09	0.54	0.16
1/16/2025 22:45	1.39	5.00	59.41	6.75	37.12	748.63	760.68	765.54	-6.90	1023.02	1021.70	-6.90	31.23	0.09	0.53	0.16
1/16/2025 23:00	1.38	5.00	70.33	6.66	36.71	756.30	770.91	766.50	-6.90	1016.55	1037.79	-6.90	30.85	0.08	0.52	0.16
1/16/2025 23:15	1.37	5.00	85.00	8.33	36.41	751.52	760.90	773.87	-6.90	1012.21	1036.29	-6.90	31.19	0.09	0.53	0.16
1/16/2025 23:30	1.38	5.00	73.90	7.35	37.07	753.59	768.02	772.46	-6.90	1023.18	1045.78	-6.90	31.19	0.09	0.53	0.16

Flare Sulphur Emissions

** Data reported below is ONLY covering the times the flares were actively flaring process gasses*

**The Flare Gas compositions are estimated based on the heat and material balance, and lab analysis of flare header samples and unit operations*

= Flare Not Active This Event

Historian Data / Calculated Data (Flare Gas Composition)

	Flare Header Pressure	Flare Gas Compressor Spillback	Flare Flow Meter	Flare Flow Meter	Flare Flow Meter	36inch Pilots	36inch Pilots	36inch Pilots	36inch Steam OP	24inch Pilots	24inch Pilots	24inch Steam	Ambient Temperature	Water Vapour /Partial Pressure	Water	Hydrogen Sulphide	Sulphur Dioxide	Hydrogen	Oxygen	Nitrogen	Carbon Monoxide	Carbon Dioxide	Methane
	20_PI947	03PC105(	14_FR631	14_FI631(	14_MI631(	98_TI401	98_TI401:	98_TI401:	98_FC40:	98_TI402:	98_TI402:	98_FC40:	14_TI1006										
	PSIG	%	KSCFH	KLB/HR	LB/LB-MOL	DEGF	DEGF	DEGF	%	DEGF	DEGF	%	DEGF	PSIA	Mol %	mol%	mol%	mol %	mol %	mol %	mol %	mol %	mol %
1/16/2025 23:45	1.29	5.00	46.00	6.92	35.52	754.88	763.58	777.29	-6.90	1013.47	1041.95	-6.90	31.34	0.09	0.54	0.11	0.00	63.99	0.00	0.73	0.00	0.05	19.86
1/17/2025 0:00	1.22	5.00	74.29	8.28	35.90	750.27	737.65	772.23	-6.90	1018.51	1053.53	-6.90	31.81	0.09	0.55	0.11	0.00	55.42	0.00	0.29	0.00	0.56	23.65
1/17/2025 0:15	1.22	5.00	89.77	8.05	37.28	754.99	748.50	768.27	-6.90	1019.18	1053.26	-6.90	32.44	0.09	0.56	0.11	0.00	55.41	0.00	0.29	0.00	0.56	23.64
1/17/2025 0:30	1.21	5.00	80.78	7.33	36.82	752.48	751.11	766.60	-6.90	1058.83	1038.05	-6.90	32.82	0.09	0.57	0.11	0.00	55.40	0.00	0.29	0.00	0.56	23.64
1/17/2025 0:45	1.21	5.00	110.30	8.99	36.44	752.01	743.65	766.19	-6.90	1060.60	1031.94	-6.90	32.94	0.09	0.58	0.11	0.00	55.40	0.00	0.29	0.00	0.56	23.64
1/17/2025 1:00	1.23	5.00	86.87	8.90	36.58	750.71	744.07	765.06	-6.90	1072.81	1038.20	-6.90	33.21	0.09	0.58	0.11	0.00	55.40	0.00	0.29	0.00	0.56	23.64
1/17/2025 1:15	1.22	5.00	57.40	8.28	36.82	755.66	745.02	764.26	-6.90	1050.59	1046.10	-6.90	33.30	0.09	0.58	0.11	0.00	55.40	0.00	0.29	0.00	0.56	23.64
1/17/2025 1:30	1.22	5.00	98.06	7.33	38.07	752.14	749.60	766.97	-6.90	1069.31	1035.91	-6.90	33.16	0.09	0.58	0.11	0.00	55.40	0.00	0.29	0.00	0.56	23.64
1/17/2025 1:45	1.21	5.00	72.26	7.00	35.62	751.35	737.88	765.55	-6.90	1076.64	1043.83	-6.90	33.01	0.09	0.58	0.11	0.00	55.40	0.00	0.29	0.00	0.56	23.64
1/17/2025 2:00	1.20	5.00	92.51	8.47	37.52	748.50	742.85	762.44	-6.90	1073.89	1043.91	-6.90	33.12	0.09	0.58	0.11	0.00	55.40	0.00	0.29	0.00	0.56	23.64
1/17/2025 2:15	1.19	5.00	83.48	7.07	38.21	750.63	726.26	766.08	-6.90	1082.72	1035.50	-6.90	32.88	0.09	0.58	0.11	0.00	55.40	0.00	0.29	0.00	0.56	23.64
1/17/2025 2:30	1.18	5.00	91.97	9.22	38.00	750.22	727.69	766.13	-6.90	1066.17	1029.61	-6.90	32.97	0.09	0.58	0.11	0.00	55.40	0.00	0.29	0.00	0.56	23.64
1/17/2025 2:45	1.18	5.00	97.19	8.51	38.26	736.22	732.34	782.47	-6.90	1082.41	1022.80	-6.90	32.81	0.09	0.57	0.11	0.00	55.40	0.00	0.29	0.00	0.56	23.64
1/17/2025 3:00	1.18	5.00	64.17	8.29	38.31	722.53	727.74	806.67	-6.90	1088.03	1020.64	-6.90	33.00	0.09	0.58	0.11	0.00	55.40	0.00	0.29	0.00	0.56	23.64
1/17/2025 3:15	1.18	5.00	73.22	7.71	39.06	734.71	716.99	806.72	-6.90	1077.78	1027.97	-6.90	33.22	0.09	0.58	0.11	0.00	55.40	0.00	0.29	0.00	0.56	23.64
1/17/2025 3:30	1.18	5.00	84.07	8.02	37.71	742.51	720.93	797.64	-6.90	1075.05	1028.66	-6.90	33.28	0.09	0.59	0.11	0.00	55.40	0.00	0.29	0.00	0.56	23.64
1/17/2025 3:45	1.18	5.00	92.71	8.25	38.65	753.97	721.21	781.49	-6.90	1072.50	1028.20	-6.90	33.29	0.09	0.59	0.11	0.00	55.40	0.00	0.29	0.00	0.56	23.64
1/17/2025 4:00	1.26	17.56	59.26	6.49	38.87	751.73	717.90	781.17	-6.90	1062.35	1024.78	-6.90	33.37	0.09	0.59	0.11	0.00	55.40	0.00	0.29	0.00	0.56	23.64
1/17/2025 4:15	1.26	23.01	47.39	6.45	39.70	739.61	714.17	810.60	-6.90	1081.91	1027.72	-6.90	33.15	0.09	0.58	0.11	0.00	55.40	0.00	0.29	0.00	0.56	23.64
1/17/2025 4:30	1.26	27.83	79.45	7.36	42.21	744.51	719.99	799.85	-6.90	1084.30	1035.23	-6.90	33.51	0.09	0.59	0.11	0.00	55.40	0.00	0.29	0.00	0.56	23.64
1/17/2025 4:45	1.26	28.58	57.75	7.23	43.27	759.07	728.99	776.63	-6.90	1067.51	1050.31	-6.90	33.79	0.09	0.59	0.11	0.00	55.39	0.00	0.29	0.00	0.56	23.64
1/17/2025 5:00	1.26	28.79	53.23	6.53	43.36	757.30	725.50	775.34	-6.90	1071.80	1049.93	-6.90	33.35	0.09	0.58	0.11	0.00	55.40	0.00	0.29	0.00	0.56	23.64
1/17/2025 5:15	1.26	28.99	54.89	6.62	43.77	761.84	718.45	772.86	-6.90	1080.64	1055.08	-6.90	33.41	0.09	0.59	0.11	0.00	55.40	0.00	0.29	0.00	0.56	23.64
1/17/2025 5:30	1.26	29.00	79.68	6.97	44.28	766.36	738.93	770.73	-6.90	1056.57	1072.72	-6.90	33.80	0.09	0.59	0.11	0.00	55.39	0.00	0.29	0.00	0.56	23.64
1/17/2025 5:45	1.26	28.84	61.77	8.29	43.81	760.13	737.79	771.43	-6.90	1036.39	1068.68	-6.90	34.02	0.10	0.60	0.11	0.00	55.39	0.00	0.29	0.00	0.56	23.63
1/17/2025 6:00	1.27	28.33	44.48	5.30	44.50	762.29	731.79	768.44	-6.90	1047.03	1073.99	-6.90	33.71	0.09	0.59	0.11	0.00	55.39	0.00	0.29	0.00	0.56	23.64
1/17/2025 6:15	1.26	28.14	61.59	4.41	44.20	757.62	735.12	766.46	-6.90	1024.88	1069.36	-6.90	33.59	0.09	0.59	0.11	0.00	55.39	0.00	0.29	0.00	0.56	23.64
1/17/2025 6:30	1.27	27.96	64.89	7.61	45.10	760.06	739.93	762.31	-6.90	1016.55	1062.60	-6.90	33.65	0.09	0.59	0.11	0.00	55.39	0.00	0.29	0.00	0.56	23.64
1/17/2025 6:45	1.27	27.69	80.02	7.81	43.67	758.85	728.70	764.80	-6.90	1054.46	1076.63	-6.90	33.45	0.09	0.59	0.11	0.00	55.40	0.00	0.29	0.00	0.56	23.64
1/17/2025 7:00	1.27	27.42	63.31	6.85	44.04	758.96	736.09	762.53	-6.90	1045.63	1071.85	-6.90	33.54	0.09	0.59	0.11	0.00	55.39	0.00	0.29	0.00	0.56	23.64
1/17/2025 7:15	1.27	27.22	72.74	7.08	42.62	758.83	737.88	763.51	-6.90	1044.61	1076.01	-6.90	33.46	0.09	0.59	0.11	0.00	55.40	0.00	0.29	0.00	0.56	23.64
1/17/2025 7:30	1.27	27.11	70.80	5.71	44.83	757.64	729.32	764.79	-6.90	1082.27	1062.94	-6.90	32.97	0.09	0.58	0.11	0.00	55.40	0.00	0.29	0.00	0.56	23.64
1/17/2025 7:45	1.27	27.15	91.33	7.97	45.01	758.24	721.53	761.96	-6.90	1081.84	1056.67	-6.90	33.08	0.09	0.58	0.11	0.00	55.40	0.00	0.29	0.00	0.56	23.64
1/17/2025 8:00	1.27	27.05	61.14	7.06	44.80	756.16	726.57	757.45	-6.90	1078.94	1057.52	-6.90	32.89	0.09	0.57	0.11	0.00	55.40	0.00	0.29	0.00	0.56	23.64
1/17/2025 8:15	1.27	25.79	31.55	7.21	45.19	738.99	731.71	770.87	-6.90	1081.99	1027.83	-6.90	32.59	0.09	0.57	0.11	0.00	55.41	0.00	0.29	0.00	0.56	23.64
1/17/2025 8:30	1.27	26.31	50.34	7.10	44.57	758.48	739.04	755.60	-6.90	1076.43	1031.51	-6.90	33.00	0.09	0.58	0.11	0.00	55.40	0.00	0.29	0.00	0.56	23.64
1/17/2025 8:45	1.27	25.48	68.72	8.60	43.82	761.08	771.11	731.58	-6.90	1094.90	1063.90	-6.90	33.50	0.09	0.59	0.11	0.00	55.40	0.00	0.29	0.00	0.56	23.64
1/17/2025 9:00	1.27	24.47	69.70	8.39	43.34	768.15	766.76	732.51	-6.90	1089.98	1080.13	-6.90	33.35	0.09	0.58	0.11	0.00	55.40	0.00	0.29	0.00	0.56	23.64
1/17/2025 9:15	1.27	24.41	66.14	8.00	43.37	779.55	740.72	765.28	-6.90	1100.18	1071.83	-6.90	33.22	0.09	0.58	0.11	0.00	55.40	0.00	0.29	0.00	0.56	23.64
1/17/2025 9:30	1.27	24.61	39.41	6.34	44.44	776.09	734.78	769.92	-6.90	1083.28	1076.14	-6.90	33.64	0.09	0.59	0.11	0.00	55.39	0.00	0.29	0.00	0.56	23.64
1/17/2025 9:45	1.27	24.46	45.19	7.78	43.80	765.17	731.38	768.11	-6.90	1059.23	1095.69	-6.90	34.40	0.10	0.61	0.11	0.00	55.38	0.00	0.29	0.00	0.56	23.63
1/17/2025 10:00	1.27	24.43	60.19	7.67	43.51	761.41	715.78	760.24	-6.90	1059.74	1117.60	-6.90	34.83	0.10	0.62	0.11	0.00	55.38	0.00	0.29	0.00	0.56	23.63
1/17/2025 10:15	1.28	24.32	86.93	9.23	44.33	746.17	799.59	727.60	-6.90	1045.86	1150.82	-6.90	35.53	0.10	0.64	0.11	0.00	55.37	0.00	0.29	0.00	0.56	23.63
1/17/2025 10:30	1.28	24.13	68.49	9.08	45.06	747.30	743.85	750.78	-6.90	1049.36	1103.72	-6.90	36.73	0.11	0.67	0.11	0.00	55.35	0.00	0.29	0.00	0.56	23.62
1/17/2025 10:45	1.28	23.95	86.34	8.51	44.71	745.71	734.53	758.81	-6.90	1041.90	1082.76	-6.90	37.20	0.11	0.68	0.11	0.00	55.34	0.00	0.29	0.00	0.56	23.62
1/17/2025 11:00	1.28	23.72	61.50	7.75	44.53	748.79	730.85	754.28	-6.90	1048.13	1089.63	-6.90	39.94	0.12	0.76	0.11	0.00	55.30	0.00	0.29	0.00	0.56	23.60
1/17/2025 11:15	1.28	23.53	71.96	7.67	44.45	752.23	734.72	752.45	-6.90	1050.81	1089.60	-6.90	41.99	0.13	0.82	0.11	0.00	55.27	0.00	0.29	0.00	0.56	23.58
1/17/2025 11:30	1.28	23.79	47.48	6.07	46.59	746.56	735.01	748.27	-6.90	1051.87	1095.79	-6.90	40.35	0.12	0.77	0.11	0.00	55.29	0.00	0.29	0.00	0.56	23.59
1/17/2025 11:45	1.28	23.59	61.18	6.93	45.41	743.88	750.50	746.54	-6.90	1016.08	1073.08	-6.90	38.91	0.12	0.73	0.11	0.00	55.32	0.00	0.29	0.00	0.56	23.60
1/17/2025 12:00	1.28	23.31	48.03	6.20	45.05	775.22	776.70	771.59	-6.90	987.53	1132.90	-6.90	37.96	0.11	0.70	0.11	0.00	55.33	0.00	0.29	0.00	0.56	23.61
1/17/2025 12:15	1.28	23.00	79.17	9.05	44.55	810.98	769.89	817.56	-6.90	941.35	1163.21	-6.90	38.66	0.12	0.72	0.11	0.00	55.32	0.00	0.29	0.00	0.56	23.61
1/17/2025 12:30	1.28	22.93	58.61	8.06	44.52	817.33	778.70	807.67	-6.90	947.96	1152.22	-6.90	39.29	0.12	0.74	0.11	0.00	55.31	0.00	0.29	0.00	0.56	23.60
1/17/2025 12:45	1.28	22.27	54.48	6.55	46.46	812.57	775.62	802.78	-6.90	960.58	1132.40	-6.90	42.13	0.13	0.83	0.11	0.00	55.26	0.00	0.29	0.00	0.56	23.58
1/17/2025 13:00	1.28	22.87	66.49	7.30	46.24	834.39	780.91	811.29	-6.90	944.94	1151.42	-6.90	39.94	0.12	0.76	0.11	0.00	55.30	0.00	0.29	0.00	0.56	23.60
1/17/2025 13:15	1.28	22.60	71.68	6.64	46.42	807.50	786.44	792.67	-6.90	961.89	1128.67	-6.90	40.88	0.13	0.79	0.11	0.00	55.29	0.00	0.29	0.00	0.56	23.59
1/17/2025 13:30	1.28	22.25	59.86	8.54	45.12	791.87	759.44	802.76	-6.90	968.01	1138.12	-6.90	42.41	0.13	0.83	0.11	0.00	55.26	0.00	0.29	0.00	0.56	23.58
1/17/2025 13:45	1.27	22.25	63.23	6.94	45.97	804.61	758.39	816.32	-6.90	948.11	1151.20	-6.90	39.44	0.12	0.74	0.11	0.00	55.31	0.00	0.29	0.00	0.56	23.60
1/17/2025 14:00	1.26	21.00	58.43	7.11	45.96	745.24	748.45	766.23	-6.90	978.07	1068.66	-6.90	39.96	0.12	0.76	0.11	0.00	55.30	0.00	0.29	0.00	0.56	23.60
1/17/2025 14:15	1.26	20.15	67.96	6.86	45.82	754.51	761.21	772.35	-6.90	976.68	1077.08	-6.90	39.79	0.12	0.75	0.11	0.00	55.30	0.00	0.29	0.00	0.56	23.60
1/17/2025 14:30	1.27	20.00	72.50	8.05	44.08	740.77	744.09	781.68	-6.90	952.11	1030.72	-6.90	39.84	0.12	0.76	0.11	0.00	55.30	0.00	0.29	0.00	0.56	23.60
1/17/2025 14:45	1.26	20.00	34.52	6.48	45.16	739.50	744.63	774.89	-6.90	959.48	1041.03	-6.90	39.44	0.12	0.74	0.11	0.00	55.31	0.00	0.29	0.00	0.56	23.60
1/17/2025 15:00	1.26	20.00	62.47	6.62	45.40	742.95	744.11	782.67	-6.90	950.64	1029.67	-6.90	40.03	0.12	0.76	0.11	0.00	55.30	0.00	0.29	0.00	0.56	23.60
1/17/2025 15:15	1.26	20.00	69.88	7.99	46.17	746.19	744.31	786.06	-6.90	951.05	1036.87	-6.90	39.90	0.12	0.76	0.11	0.00	55.30	0.00	0.29	0.00	0.56	23.60
1/17/2025 15:30	1.25	20.00	51.49	6.87	45.22	743.61	754.05	771.39	-6.90	966.87	1048.94	-6.90	41.97	0.13	0.82	0.11	0.00	55.27	0.00	0.29	0.00	0.56	23.58
1/17/2025 15:45	0.97	20.00	65.65	8.88	46.23	738.35	745.24	776.21	-6.90	944.60	1025.99	-6.90	40.89	0.13	0.80	0.11	0.00	55.28	0.00	0.29	0.00	0.56	23.59
1/17/2025 16:00	0.89	20.00	40.02	4.57	47.42	735.47	749.57	770.62	-6.90	955.85	1064.51	-6.90	38.96	0.12	0.75	0.11	0.00	55.31	0.00	0.29	0.00	0.56	23.60
1/21/2025 11:00	1.09	18.00	66.68	6.88	43.89	739.35	741.13	768.34	-6.90	1068.70	1022.61	-6.90	18.84	0.05	0.32	0.10	0.00	55.85	0.00	0.25	0.00	0.06	23.68
1/21/2025 11:15	1.18	18.00	77.08	7.99	42.34	744.25	757.55	760.57	-6.90	1062.32	1025.07	-6.90	19.22	0.05	0.33	0.10	0.00	55.84	0.00	0.25	0.00	0.06	23.68
1/21/2025 11:30	1.12	18.00	68.92	4.87	42.57	742.36	760.66	764.36	-6.90	1037.75	1034.26	-6.90	19.91	0.05	0.34	0.10	0.00	55.84	0.00	0.25	0.00	0.06	23.68
2/1/2025 9:30	1.14	30.00	52.65	6.58	46.56	709.12	784.65	668.52	-6.90	1119.88	1103.93	-6.90	15.11	0.04	0.27	0.16	0.00	52.24	0.00	7.63	0.00	0.55	21.89
2/1/2025 9:45	1.15	30.00	57.56	6.67	46.22	711.36	784.58	667.00	-6.90	1138.51	1099.91	-6.90	18.01	0.05	0.31	0.16	0.00	52.22	0.00	7.62	0.00	0.55	21.88
2/1/2025 10:00	1.16	30.00	52.44	6.48	47.03	704.68	790.22	673.11	-6.90	1163.25	1086.00	-6.90	17.76	0.05	0.31	0.16	0.00	52.22	0.00	7.62	0.00	0.55	21.88
2/1/2025 10:15	1.17	30.00	52.03	6.88	47.40	705.38	790.86	673.60	-6.90	1141.26	1107.88	-6.90	18.02	0.05	0.31	0.16	0.00	52.22	0.00	7.62	0.00	0.55	21.88
2/1/2025 10:30	1.19	30.00	63.31	7.17	46.93	700.15	791.53	676.48	-6.90	1250.60	1067.05	-6.90	20.39	0.05	0.34	0.16	0.00	52.20	0.00	7.62	0.00	0.55	21.87
2/1/2025 10:45	1.20	30.00	46.39	6.95	47.99	701.81	788.58	676.13	-6.90	1162.25	1080.16	-6.90	19.28	0.05	0.33	0.16	0.00	52.21	0.00	7.62	0.00	0.55	21.87
2/1/2025 11:00	1.20	30.00	52.89	6.22	47.12	707.02	786.13	668.69	-6.90	1133.29	1103.01	-6.90	18.20	0.05	0.31	0.16	0.00	52.22	0.00	7.62	0.00	0.55	21.88
2/1/2025 11:15	1.23	30.00	51.18	6.70	47.88	705.03	786.47	678.53	-6.90	1209.04	1086.36	-6.90	17.99	0.05	0.31	0.16	0.00	52.22	0.00	7.62	0.00	0.55	21.88
2/1/2025 11:30	1.21	30.00	60.71	7.17	46.99	704.31	788.78	687.17	-6.90	1087.13	1124.78	-6.90	20.20	0.05	0.34	0.16	0.00	52.20	0.00	7.62	0.00	0.55	21.87
2/1/2025 11:45	1.22	30.00	45.40	6.54	47.42	714.46	783.73	696.71	-6.90	1066.03	1122.95	-6.90	24.77	0.07	0.41	0.16	0.00	52.17	0.00	7.62	0.00	0.55	21.86
2/1/2025 12:00	1.22	30.00	52.56	6.58	47.30	721.09	781.95	695.81	-6.90	1090.91	1133.17	-6.90	24.04	0.06	0.40	0.16	0.00	52.17	0.00	7.62	0.00	0.55	21.86
2/1/2025 12:15	1.23	30.00	46.91	6.98	47.23	727.09	786.69	684.10	-6.90	1135.71	1102.96	-6.90	24.39	0.07	0.41	0.16	0.00	52.17	0.00	7.62	0.00	0.55	21.86
2/1/2025 12:30	1.24	30.00	34.72	7.21	47.62	729.96	778.65	689.63	-6.90	1145.11	1096.81	-6.90	23.82	0.06	0.40	0.16	0.00	52.18	0.00	7.62	0.00	0.55	21.86
2/1/2025 12:45	1.23	30.00	63.88	6.52	47.13	711.46	788.15	684.32	-6.90	1115.86	1118.97	-6.90	25.36	0.07	0.42	0.16	0.00	52.16	0.00	7.61	0.00	0.55	21.85
2/1/2025 13:00	1.23	30.00	56.65	6.55	47.87	715.28	789.60	678.32	-6.90	1109.53	1109.96	-6.90	22.23	0.06	0.37	0.16	0.00	52.19	0.00	7.62	0.00	0.55	21.86
2/1/2025 13:15	1.23	30.00	50.51	6.74	47.74	694.11	795.86	703.46	-6.90	1106.18	1127.30	-6.90	23.45	0.06	0.39	0.16	0.00	52.18	0.00	7.62	0.00	0.55	21.86
2/1/2025 13:30	1.23	30.00	57.31	6.78	47.78	708.02	791.44	715.66	-6.90	1081.92	1150.04	-6.90	25.15	0.07	0.42	0.16	0.00	52.16	0.00	7.62	0.00	0.55	21.85
2/1/2025 13:45	1.23	30.00	56.41	6.54	46.83	724.16	781.39	719.47	-6.90	1085.48	1149.81	-6.90	28.01	0.08	0.47	0.16	0.00	52.14	0.00	7.61	0.00	0.55	21.84
2/1/2025 14:00	1.26	30.00	48.95	6.48	47.54	744.63	768.35	729.59	-6.90	1065.52	1173.01	-6.90	29.26	0.08	0.50	0.16	0.00	52.12	0.00	7.61	0.00	0.55	21.84
2/1/2025 14:15	1.24	30.00	49.01	6.26	48.68	770.56	763.64	694.11	-6.90	1038.44	1171.75	-6.90	27.56	0.07	0.46	0.16	0.00	52.14	0.00	7.61	0.00	0.55	21.84
2/1/2025 14:30	1.24	30.00	51.14	6.84	48.72	763.37	764.49	713.78	-6.90	1046.69	1171.44	-6.90	31.03	0.09	0.53	0.16	0.00	52.10	0.00	7.61	0.00	0.55	21.83
2/1/2025 14:45	1.24	30.00	59.75	5.90	46.94	770.50	788.22	685.53	-6.90	1043.00	1170.30	-6.90	29.71	0.08	0.51	0.16	0.00	52.12	0.00	7.61	0.00	0.55	21.83
2/1/2025 15:00	1.24	30.00	53.20	6.31	47.58	718.54	753.92	756.63	-6.90	1058.98	1179.44	-6.90	29.49	0.08	0.50	0.16	0.00	52.12	0.00	7.61	0.00	0.55	21.84
2/1/2025 15:15	1.25	30.00	51.49	7.06	48.46	739.22	746.00	748.14	-6.90	1034.62	1176.81	-6.90	28.74	0.08	0.49	0.16	0.00	52.13	0.00	7.61	0.00	0.55	21.84
2/1/2025 15:30	1.27	30.00	40.96	6.95	47.87	747.84	743.37	736.33	-6.90	1022.29	1172.78	-6.90	29.13	0.08	0.49	0.16	0.00	52.13	0.00	7.61	0.00	0.55	21.84
2/1/2025 15:45	1.26	30.00	39.51	5.68	47.92	767.30	761.92	694.77	-6.90	1018.25	1170.65	-6.90	28.55	0.08	0.48	0.16	0.00	52.13	0.00	7.61	0.00	0.55	21.84
2/1/2025 16:00	1.27	30.00	59.52	7.74	48.38	766.94	772.14	670.48	-6.90	999.70	1149.23	-6.90	25.63	0.07	0.43	0.16	0.00	52.16	0.00	7.61	0.00	0.55	21.85
2/1/2025 16:15	1.26	30.00	52.21	6.59	47.68	757.98	792.38	653.53	-6.90	987.10	1147.68	-6.90	24.25	0.06	0.40	0.16	0.00	52.17	0.00	7.62	0.00	0.55	21.86
2/1/2025 16:30	1.26	30.00	58.94	6.78	48.09	761.22	783.95	664.82	-6.90	1007.23	1153.48	-6.90	21.74	0.06	0.36	0.16	0.00	52.19	0.00	7.62	0.00	0.55	21.87
2/1/2025 16:45	1.26	30.00	52.92	5.90	47.18	759.58	785.37	691.31	-6.90	1038.71	1168.73	-6.90	20.15	0.05	0.34	0.16	0.00	52.21	0.00	7.62	0.00	0.55	21.87
2/1/2025 17:00	1.26	30.00	49.53	6.03	47.56	759.57	790.24	665.94	-6.90	1012.34	1156.15	-6.90	19.33	0.05	0.33	0.16	0.00	52.21	0.00	7.62	0.00	0.55	21.87
2/1/2025 17:15	1.25	30.00	48.24	5.54	47.41	751.79	776.42	703.29	-6.90	1028.08	1150.53	-6.90	19.04	0.05	0.32	0.16	0.00	52.21	0.00	7.62	0.00	0.55	21.87
2/1/2025 17:30	1.26	30.00	52.22	6.49	47.49	768.55	792.97	724.09	-6.90	1061.84	1174.08	-6.90	18.62	0.05	0.32	0.16	0.00	52.22	0.00	7.62	0.00	0.55	21.88
2/1/2025 17:45	1.25	30.00	50.69	7.32	47.55	770.59	797.29	702.07	-6.90	1040.96	1172.32	-6.90	18.59	0.05	0.32	0.16	0.00	52.22	0.00	7.62	0.00	0.55	21.88
2/1/2025 18:00	1.25	30.00	56.45	6.49	46.55	742.50	790.92	770.21	-6.90	1072.09	1168.37	-6.90	18.19	0.05	0.31	0.16	0.00	52.22	0.00	7.62	0.00	0.55	21.88
2/1/2025 18:15	1.22	27.86	48.86	6.54	46.89	719.75	783.77	751.81	-6.90	1061.51	1130.50	-6.90	18.73	0.05	0.32	0.16	0.00	52.22	0.00	7.62	0.00	0.55	21.88
2/1/2025 18:30	1.02	24.53	59.43	7.67	48.31	725.59	783.63	721.58	-6.90	1060.71	1130.84	-6.90	17.18	0.05	0.30	0.16	0.00	52.22	0.00	7.62	0.00	0.55	21.88
2/1/2025 18:45	0.80	25.99	48.53	6.01	47.12	720.72	784.15	726.42	-6.90	1060.66	1125.21	-6.90	17.07	0.05	0.30	0.16	0.00	52.22	0.00	7.62	0.00	0.55	21.88
2/1/2025 19:00	0.86	26.00	46.26	6.42	46.89	721.59	784.41	729.93	-6.90	1065.23	1120.99	-6.90	17.65	0.05	0.31	0.16	0.00	52.22	0.00	7.62	0.00	0.55	21.88
2/1/2025 19:15	0.89	26.00	63.60	7.76	47.72	724.07	783.71	736.13	-6.90	1071.29	1112.02	-6.90	17.70	0.05	0.31	0.16	0.00	52.22	0.00	7.62	0.00	0.55	21.88
2/1/2025 19:30	0.93	26.00	63.75	7.41	46.16	727.87	784.44	727.96	-6.90	1087.33	1113.11	-6.90	16.88	0.05	0.30	0.16	0.00	52.23	0.00	7.62	0.00	0.55	21.88
2/1/2025 19:45	0.91	26.00	56.89	6.47	46.16	726.69	783.76	717.75	-6.90	1074.25	1112.65	-6.90	16.72	0.05	0.30	0.16	0.00	52.23	0.00	7.62	0.00	0.55	21.88
2/1/2025 20:00	0.93	26.00	55.93	6.56	46.56	722.25	785.15	711.22	-6.90	1065.55	1124.65	-6.90	15.90	0.04	0.29	0.16	0.00	52.23	0.00	7.63	0.00	0.55	21.88
2/1/2025 20:15	0.95	26.00	51.15	6.34	47.52	719.27	783.29	732.59	-6.90	1067.63	1117.43	-6.90	15.88	0.04	0.29	0.16	0.00	52.23	0.00	7.63	0.00	0.55	21.88
2/1/2025 20:30	0.95	26.00	50.32	6.00	46.92	724.68	782.13	721.19	-6.90	1066.62	1124.22	-6.90	15.36	0.04	0.28	0.16	0.00	52.24	0.00	7.63	0.00	0.55	21.88
2/1/2025 20:45	0.95	26.00	76.14	7.52	45.96	720.10	780.83	742.37	-6.90	1069.96	1125.72	-6.90	15.18	0.04	0.28	0.16	0.00	52.24	0.00	7.63	0.00	0.55	21.88
2/1/2025 21:00	0.93	26.00	54.33	6.61	47.35	736.82	776.37	733.78	-6.90	1102.42	1129.53	-6.90	14.58	0.04	0.27	0.16	0.00	52.24	0.00	7.63	0.00	0.55	21.89
2/1/2025 21:15	0.93	26.00	45.08	6.20	46.56	737.46	779.79	722.33	-6.90	1107.76	1125.04	-6.90	14.22	0.04	0.27	0.16	0.00	52.24	0.00	7.63	0.00	0.55	21.89
2/1/2025 21:30	0.94	26.00	48.80	6.49	47.23	739.03	781.48	719.38	-6.90	1143.37	1119.48	-6.90	14.03	0.04	0.26	0.16	0.00	52.24	0.00	7.63	0.00	0.55	21.89
2/1/2025 21:45	0.95	26.00	55.40	6.60	45.72	741.84	774.47	719.46	-6.90	1138.33	1114.26	-6.90	14.00	0.04	0.26	0.16	0.00	52.24	0.00	7.63	0.00	0.55	21.89
2/1/2025 22:00	0.98	26.00	47.45	5.82	46.33	726.16	789.56	711.33	-6.90	1168.32	1098.53	-6.90	13.94	0.04	0.26	0.16	0.00	52.25	0.00	7.63	0.00	0.55	21.89
2/1/2025 22:15	0.97	26.00	60.62	7.13	46.02	728.89	790.79	712.26	-6.90	1166.27	1101.88	-6.90	13.87	0.04	0.26	0.16	0.00	52.25	0.00	7.63	0.00	0.55	21.89
2/1/2025 22:30	0.97	26.00	24.78	6.30	46.85	727.62	793.19	711.86	-6.90	1164.94	1099.52	-6.90	13.89	0.04	0.26	0.16	0.00	52.25	0.00	7.63	0.00	0.55	21.89
2/1/2025 22:45	0.96	26.00	46.78	5.63	46.62	725.75	784.96	712.00	-6.90	1162.37	1094.56	-6.90	13.86	0.04	0.26	0.16	0.00	52.25	0.00	7.63	0.00	0.55	21.89
2/1/2025 23:00	0.98	26.00	59.76	6.78	45.56	723.73	783.41	709.18	-6.90	1127.55	1093.73	-6.90	13.71	0.04	0.26	0.16	0.00	52.25	0.00	7.63	0.00	0.55	21.89
2/1/2025 23:15	1.00	26.00	61.69	6.78	45.97	720.22	781.72	720.84	-6.90	1106.72	1109.52	-6.90	13.68	0.04	0.26	0.16	0.00	52.25	0.00	7.63	0.00	0.55	21.89
2/1/2025 23:30	1.04	26.00	56.71	7.38	46.66	719.88	780.04	708.45	-6.90	1081.09	1118.01	-6.90	13.83	0.04	0.26	0.16	0.00	52.25	0.00	7.63	0.00	0.55	21.89
2/1/2025 23:45	1.01	26.00	56.18	7.01	47.08	718.98	780.47	702.39	-6.90	1080.08	1115.23	-6.90	14.32	0.04	0.27	0.16	0.00	52.24	0.00	7.63	0.00	0.55	21.89
2/2/2025 0:00	0.94	26.00	51.54	6.93	46.74	726.12	774.15	731.64	-6.90	1091.59	1121.46	-6.90	14.39	0.04	0.27	0.16	0.00	52.24	0.00	7.63	0.00	0.55	21.89
2/2/2025 0:15	0.91	26.00	52.15	6.52	46.40	727.03	778.34	720.84	-6.90	1089.46	1124.31	-6.90	14.52	0.04	0.27	0.16	0.00	52.24	0.00	7.63	0.00	0.55	21.89
2/2/2025 0:30	0.90	26.00	51.21	6.86	46.73	737.69	774.00	717.89	-6.90	1115.60	1120.30	-6.90	14.76	0.04	0.27	0.16	0.00	52.24	0.00	7.63	0.00	0.55	21.89
2/2/2025 0:45	0.91	26.00	67.23	6.60	45.59	743.87	768.20	712.38	-6.90	1108.30	1119.01	-6.90	14.84	0.04	0.27	0.16	0.00	52.24	0.00	7.63	0.00	0.55	21.89
2/2/2025 1:00	0.94	26.00	62.06	6.79	46.50	745.87	772.15	711.07	-6.90	1112.84	1124.15	-6.90	15.00	0.04	0.28	0.16	0.00	52.24	0.00	7.63	0.00	0.55	21.88
2/2/2025 1:15	0.94	26.00	54.84	6.53	46.55	763.43	758.60	712.42	-6.90	1111.24	1104.76	-6.90	15.86	0.04	0.29	0.16	0.00	52.23	0.00	7.63	0.00	0.55	21.88
2/2/2025 1:30	0.95	26.00	45.57	5.94	47.41	751.68	775.18	702.13	-6.90	1125.50	1112.02	-6.90	15.67	0.04	0.28	0.16	0.00	52.23	0.00	7.63	0.00	0.55	21.88
2/2/2025 1:45	0.95	26.00	51.82	6.85	47.03	747.64	767.35	712.87	-6.90	1096.31	1123.83	-6.90	15.55	0.04	0.28	0.16	0.00	52.23	0.00	7.63	0.00	0.55	21.88
2/2/2025 2:00	0.94	26.00	62.29	6.94	47.17	722.21	778.90	724.91	-6.90	1059.81	1130.51	-6.90	15.25	0.04	0.28	0.16	0.00	52.24	0.00	7.63	0.00	0.55	21.88
2/2/2025 2:15	0.94	26.00	57.43	6.13	46.88	698.13	786.95	733.18	-6.90	1047.53	1152.36	-6.90	15.27	0.04	0.28	0.16	0.00	52.24	0.00	7.63	0.00	0.55	21.88
2/2/2025 2:30	0.94	26.00	52.80	6.39	47.31	716.74	782.44	700.35	-6.90	1023.38	1193.86	-6.90	18.22	0.05	0.32	0.16	0.00	52.22	0.00	7.62	0.00	0.55	21.88
2/2/2025 2:45	0.93	26.00	53.74	6.95	47.25	771.48	759.33	669.16	-6.90	940.27	1247.39	-6.90	21.03	0.06	0.36	0.16	0.00	52.20	0.00	7.62	0.00	0.55	21.87
2/2/2025 3:00	0.95	26.00	54.07	6.75	47.45	775.39	750.73	664.33	-6.90	940.49	1233.32	-6.90	21.18	0.06	0.36	0.16	0.00	52.19	0.00	7.62	0.00	0.55	21.87
2/2/2025 3:15	0.95	26.00	50.76	6.09	46.92	774.64	738.14	665.31	-6.90	939.79	1248.65	-6.90	21.33	0.06	0.36	0.16	0.00	52.19	0.00	7.62	0.00	0.55	21.87
2/2/2025 3:30	0.95	26.00	48.28	5.65	47.38	772.87	729.59	660.13	-6.90	944.53	1238.36	-6.90	20.97	0.06	0.36	0.16	0.00	52.20	0.00	7.62	0.00	0.55	21.87
2/2/2025 3:45	0.96	26.00	54.00	6.76	46.91	770.97	739.70	657.44	-6.90	943.48	1237.61	-6.90	20.74	0.06	0.35	0.16	0.00	52.20	0.00	7.62	0.00	0.55	21.87
2/2/2025 4:00	0.96	26.00	49.78	6.40	47.36	771.25	760.51	644.62	-6.90	939.11	1259.56	-6.90	21.01	0.06	0.36	0.16	0.00	52.20	0.00	7.62	0.00	0.55	21.87
2/2/2025 4:15	1.05	26.00	49.45	6.74	47.18	770.25	761.68	643.38	-6.90	939.50	1243.01	-6.90	20.82	0.06	0.35	0.16	0.00	52.20	0.00	7.62	0.00	0.55	21.87
2/2/2025 4:30	1.11	26.00	58.97	7.00	46.18	765.43	743.12	655.08	-6.90	943.68	1203.40	-6.90	20.79	0.06	0.35	0.16	0.00	52.20	0.00	7.62	0.00	0.55	21.87
2/2/2025 4:45	1.08	26.00	50.28	6.25	46.17	763.21	738.94	658.60	-6.90	945.01	1219.07	-6.90	20.80	0.06	0.35	0.16	0.00	52.20	0.00	7.62	0.00	0.55	21.87
2/2/2025 5:00	1.07	26.00	58.49	6.58	46.90	764.83	752.13	649.34	-6.90	941.34	1233.46	-6.90	20.79	0.06	0.35	0.16	0.00	52.20	0.00	7.62	0.00	0.55	21.87
2/2/2025 5:15	1.05	26.00	46.33	5.89	46.63	769.66	766.05	639.34	-6.90	941.85	1261.79	-6.90	21.13	0.06	0.36	0.16	0.00	52.20	0.00	7.62	0.00	0.55	21.87
2/2/2025 5:30	1.05	26.00	38.00	6.04	46.80	769.81	770.48	639.42	-6.90	938.41	1271.38	-6.90	21.12	0.06	0.36	0.16	0.00	52.20	0.00	7.62	0.00	0.55	21.87
2/2/2025 5:45	1.06	26.00	52.54	7.11	46.81	771.63	770.60	639.17	-6.90	942.42	1242.97	-6.90	21.36	0.06	0.36	0.16	0.00	52.19	0.00	7.62	0.00	0.55	21.87
2/2/2025 6:00	1.05	26.00	55.73	6.41	46.67	775.62	764.42	642.02	-6.90	938.21	1289.11	-6.90	21.74	0.06	0.37	0.16	0.00	52.19	0.00	7.62	0.00	0.55	21.87
2/2/2025 6:15	1.06	26.00	51.41	6.01	46.64	779.78	773.39	636.39	-6.90	937.79	1272.41	-6.90	22.09	0.06	0.37	0.16	0.00	52.19	0.00	7.62	0.00	0.55	21.86
2/2/2025 6:30	1.08	26.00	54.82	6.41	45.97	781.57	771.65	638.12	-6.90	941.03	1297.83	-6.90	22.62	0.06	0.38	0.16	0.00	52.18	0.00	7.62	0.00	0.55	21.86
2/2/2025 6:45	1.09	26.00	47.07	6.34	46.27	779.01	768.39	641.15	-6.90	942.52	1257.58	-6.90	22.85	0.06	0.38	0.16	0.00	52.18	0.00	7.62	0.00	0.55	21.86
2/2/2025 7:00	1.10	26.00	35.37	5.62	45.94	779.07	761.99	648.20	-6.90	942.38	1234.37	-6.90	23.00	0.06	0.39	0.16	0.00	52.18	0.00	7.62	0.00	0.55	21.86
2/2/2025 7:15	1.14	26.00	46.62	6.63	45.72	782.46	762.09	642.81	-6.90	939.79	1297.85	-6.90	23.09	0.06	0.39	0.16	0.00	52.18	0.00	7.62	0.00	0.55	21.86
2/2/2025 7:30	1.13	26.00	52.98	6.03	46.99	781.10	743.42	655.02	-6.90	940.36	1236.64	-6.90	22.47	0.06	0.38	0.16	0.00	52.19	0.00	7.62	0.00	0.55	21.86
2/2/2025 7:45	1.13	26.00	54.18	6.53	45.90	787.39	760.61	666.51	-6.90	939.56	1273.64	-6.90	22.46	0.06	0.38	0.16	0.00	52.19	0.00	7.62	0.00	0.55	21.86
2/2/2025 8:00	1.19	26.00	51.58	6.50	46.28	789.02	767.92	663.43	-6.90	941.30	1296.25	-6.90	22.72	0.06	0.38	0.16	0.00	52.18	0.00	7.62	0.00	0.55	21.86
2/2/2025 8:15	1.20	26.00	47.57	5.39	47.33	789.43	766.60	658.19	-6.90	940.03	1274.01	-6.90	22.77	0.06	0.38	0.16	0.00	52.18	0.00	7.62	0.00	0.55	21.86
2/2/2025 8:30	1.21	26.00	57.80	6.23	46.43	791.43	773.90	658.66	-6.90	937.26	1299.77	-6.90	23.04	0.06	0.38	0.16	0.00	52.18	0.00	7.62	0.00	0.55	21.86
2/2/2025 8:45	1.21	26.00	47.89	6.60	46.76	791.35	764.83	658.90	-6.90	940.11	1283.34	-6.90	23.46	0.06	0.39	0.16	0.00	52.18	0.00	7.62	0.00	0.55	21.86
2/2/2025 9:00	1.21	26.00	49.32	5.95	46.96	787.92	756.65	666.98	-6.90	940.55	1268.85	-6.90	23.80	0.06	0.40	0.16	0.00	52.18	0.00	7.62	0.00	0.55	21.86
2/2/2025 9:15	1.23	26.00	65.84	7.34	46.66	790.83	766.21	668.98	-6.90	942.15	1287.92	-6.90	24.17	0.06	0.40	0.16	0.00	52.17	0.00	7.62	0.00	0.55	21.86
2/2/2025 9:30	1.19	26.00	69.92	7.22	46.61	793.91	773.74	662.29	-6.90	940.72	1300.42	-6.90	24.45	0.06	0.41	0.16	0.00	52.17	0.00	7.62	0.00	0.55	21.86
2/2/2025 9:45	1.18	26.00	55.46	7.00	46.34	794.34	777.89	653.03	-6.90	938.53	1322.84	-6.90	24.78	0.07	0.41	0.16	0.00	52.17	0.00	7.62	0.00	0.55	21.86
2/2/2025 10:00	1.18	26.00	47.53	6.75	47.97	793.35	771.31	652.46	-6.90	936.97	1294.25	-6.90	24.83	0.07	0.41	0.16	0.00	52.17	0.00	7.62	0.00	0.55	21.85
2/2/2025 10:15	1.20	26.00	51.98	6.53	47.58	794.13	769.20	660.83	-6.90	936.33	1294.16	-6.90	24.92	0.07	0.42	0.16	0.00	52.17	0.00	7.62	0.00	0.55	21.85
2/2/2025 10:30	1.20	26.00	59.96	6.53	47.07	791.24	759.96	663.63	-6.90	940.61	1255.48	-6.90	25.20	0.07	0.42	0.16	0.00	52.16	0.00	7.62	0.00	0.55	21.85
2/2/2025 10:45	1.20	26.00	52.06	5.76	47.27	790.95	755.07	676.52	-6.90	944.81	1248.05	-6.90	25.86	0.07	0.43	0.16	0.00	52.16	0.00	7.61	0.00	0.55	21.85
2/2/2025 11:00	1.22	26.00	53.77	6.48	48.40	788.01	727.95	683.12	-6.90	952.09	1217.71	-6.90	26.53	0.07	0.44	0.16	0.00	52.15	0.00	7.61	0.00	0.55	21.85
2/2/2025 11:15	1.22	26.00	53.85	6.20	50.13	785.85	736.29	690.69	-6.90	953.67	1221.80	-6.90	26.26	0.07	0.44	0.16	0.00	52.15	0.00	7.61	0.00	0.55	21.85
2/2/2025 11:30	1.21	26.00	57.01	6.96	47.07	785.89	727.20	687.78	-6.90	953.92	1203.41	-6.90	26.16	0.07	0.44	0.16	0.00	52.15	0.00	7.61	0.00	0.55	21.85
2/2/2025 11:45	1.20	26.00	52.03	6.97	47.54	779.74	709.05	690.21	-6.90	959.33	1187.22	-6.90	26.07	0.07	0.44	0.16	0.00	52.16	0.00	7.61	0.00	0.55	21.85
2/2/2025 12:00	1.16	26.00	53.63	6.64	48.75	785.33	755.79	709.07	-6.90	966.42	1208.55	-6.90	26.11	0.07	0.44	0.16	0.00	52.15	0.00	7.61	0.00	0.55	21.85
2/2/2025 12:15	1.15	26.00	46.85	6.41	48.03	783.57	744.50	713.17	-6.90	966.87	1210.60	-6.90	26.19	0.07	0.44	0.16	0.00	52.15	0.00	7.61	0.00	0.55	21.85

Flare Gas Composition (continued) / Property Calculations / ZTOF / Total

	Ethane	Propane	Propylene	i-Butane	n-Butane	Butylene	i-Pentane	n-Pentane	n-Hexane and C6+	Flare Gas Lower Flamibility Limit	Net Heating Value	Molecular Weight	NFVvg-LFL	Calc Net Heating Value Limit	Maximum Velocity	ZTOF Stage Estimate	ZTOF Flow Estimate	ZTOF Flow Estimate	ZTOF Steam Flow Estimate	ZTOF Steam Flow Estimate	Net Heating Value	Actual Velocity	SO2 Emissions	Total SO2 Emissions
										LFLvg	NHVvg			NHVcz-limit		1					NHVcz			
	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %		BTU/SCF	lb/lbmol		BTU/SCF	ft/s		lb/hr	SCFH	lb/hr	SCFH	BTU/SCF	ft/s	kg/period	kg/period
1/16/2025 23:45	4.25	3.95	0.00	2.03	1.82	0.00	0.91	0.71	1.05	0.04	1323.88	12.17	48.42	343.78	400.00	1.00	356	11025	4193	88326	157	0.03	0.23	0.23
1/17/2025 0:00	5.62	5.23	0.00	2.62	2.51	0.00	1.13	0.99	1.34	0.04	1371.23	15.03	48.48	344.18	400.00	1.00	96	2433	4193	88326	57	0.03	0.05	0.05
1/17/2025 0:15	5.62	5.22	0.00	2.62	2.51	0.00	1.13	0.99	1.34	0.04	1371.04	15.03	48.48	344.18	400.00	1.00	78	1969	4193	88326	51	0.03	0.04	0.04
1/17/2025 0:30	5.62	5.22	0.00	2.62	2.51	0.00	1.13	0.99	1.34	0.04	1370.91	15.03	48.48	344.18	400.00	1.00	50	1253	4193	88326	40	0.03	0.03	0.03
1/17/2025 0:45	5.62	5.22	0.00	2.62	2.51	0.00	1.13	0.99	1.34	0.04	1370.88	15.03	48.48	344.18	400.00	0.80	39	985	3355	70661	220	0.02	0.02	0.02
1/17/2025 1:00	5.62	5.22	0.00	2.62	2.51	0.00	1.13	0.99	1.34	0.04	1370.80	15.03	48.48	344.18	400.00	1.00	111	2810	4193	88326	62	0.03	0.06	0.06
1/17/2025 1:15	5.62	5.22	0.00	2.62	2.51	0.00	1.13	0.99	1.34	0.04	1370.77	15.03	48.48	344.18	400.00	1.00	93	2350	4193	88326	56	0.03	0.05	0.05
1/17/2025 1:30	5.62	5.22	0.00	2.62	2.51	0.00	1.13	0.99	1.34	0.04	1370.81	15.03	48.48	344.18	400.00	1.00	75	1884	4193	88326	49	0.03	0.04	0.04
1/17/2025 1:45	5.62	5.22	0.00	2.62	2.51	0.00	1.13	0.99	1.34	0.04	1370.85	15.03	48.48	344.18	400.00	1.00	54	1357	4193	88326	42	0.03	0.03	0.03
1/17/2025 2:00	5.62	5.22	0.00	2.62	2.51	0.00	1.13	0.99	1.34	0.04	1370.82	15.03	48.48	344.18	400.00	0.73	20	499	3075	64773	274	0.02	0.01	0.01
1/17/2025 2:15	5.62	5.22	0.00	2.62	2.51	0.00	1.13	0.99	1.34	0.04	1370.89	15.03	48.48	344.18	400.00	0.07	0	3	280	5888	879	0.00	0.00	0.00
1/17/2025 2:30	5.62	5.22	0.00	2.62	2.51	0.00	1.13	0.99	1.34	0.04	1370.85	15.03	48.48	344.18	400.00	0.00	0	0	0	0	940	0.00	0.00	0.00
1/17/2025 2:45	5.62	5.22	0.00	2.62	2.51	0.00	1.13	0.99	1.34	0.04	1370.90	15.03	48.48	344.18	400.00	0.00	0	0	0	0	940	0.00	0.00	0.00
1/17/2025 3:00	5.62	5.22	0.00	2.62	2.51	0.00	1.13	0.99	1.34	0.04	1370.84	15.03	48.48	344.18	400.00	0.00	0	0	0	0	940	0.00	0.00	0.00
1/17/2025 3:15	5.62	5.22	0.00	2.62	2.51	0.00	1.13	0.99	1.34	0.04	1370.77	15.03	48.48	344.18	400.00	0.00	0	0	0	0	940	0.00	0.00	0.00
1/17/2025 3:30	5.62	5.22	0.00	2.62	2.51	0.00	1.13	0.99	1.34	0.04	1370.75	15.03	48.48	344.18	400.00	0.00	0	0	0	0	940	0.00	0.00	0.00
1/17/2025 3:45	5.62	5.22	0.00	2.62	2.51	0.00	1.13	0.99	1.34	0.04	1370.75	15.03	48.48	344.18	400.00	0.00	0	0	0	0	940	0.00	0.00	0.00
1/17/2025 4:00	5.62	5.22	0.00	2.62	2.51	0.00	1.13	0.99	1.34	0.04	1370.76	15.03	48.48	344.18	400.00	1.00	253	6393	4193	88326	110	0.03	0.14	0.14
1/17/2025 4:15	5.62	5.22	0.00	2.62	2.51	0.00	1.13	0.99	1.34	0.04	1370.83	15.03	48.48	344.18	400.00	1.00	257	6493	4193	88326	112	0.03	0.14	0.14
1/17/2025 4:30	5.62	5.22	0.00	2.62	2.51	0.00	1.13	0.99	1.34	0.04	1370.72	15.03	48.48	344.18	400.00	1.00	253	6398	4193	88326	111	0.03	0.14	0.14
1/17/2025 4:45	5.62	5.22	0.00	2.62	2.51	0.00	1.13	0.99	1.34	0.04	1370.63	15.03	48.48	344.18	400.00	1.00	261	6580	4193	88326	113	0.03	0.14	0.14
1/17/2025 5:00	5.62	5.22	0.00	2.62	2.51	0.00	1.13	0.99	1.34	0.04	1370.77	15.03	48.48	344.18	400.00	1.00	266	6729	4193	88326	115	0.03	0.14	0.14
1/17/2025 5:15	5.62	5.22	0.00	2.62	2.51	0.00	1.13	0.99	1.34	0.04	1370.75	15.03	48.48	344.18	400.00	1.00	263.3	6647.6	4193.33	88326.29	114.18	0.03	0.14	0.14
1/17/2025 5:30	5.62	5.22	0.00	2.62	2.51	0.00	1.13	0.99	1.34	0.04	1370.63	15.03	48.48	344.18	400.00	1.00	268.6	6782.6	4193.33	88326.29	115.92	0.03	0.15	0.15
1/17/2025 5:45	5.62	5.22	0.00	2.62	2.51	0.00	1.13	0.99	1.34	0.04	1370.55	15.03	48.48	344.18	400.00	1.00	271.6	6858.0	4193.33	88326.29	116.88	0.03	0.15	0.15
1/17/2025 6:00	5.62	5.22	0.00	2.62	2.51	0.00	1.13	0.99	1.34	0.04	1370.65	15.03	48.48	344.18	400.00	1.00	279.2	7050.2	4193.33	88326.29	119.37	0.03	0.15	0.15
1/17/2025 6:15	5.62	5.22	0.00	2.62	2.51	0.00	1.13	0.99	1.34	0.04	1370.69	15.03	48.48	344.18	400.00	1.00	268.8	6788.1	4193.33	88326.29	116.00	0.03	0.15	0.15
1/17/2025 6:30	5.62	5.22	0.00	2.62	2.51	0.00	1.13	0.99	1.34	0.04	1370.68	15.03	48.48	344.18	400.00	1.00	276.9	6992.5	4193.33	88326.29	118.63	0.03	0.15	0.15
1/17/2025 6:45	5.62	5.22	0.00	2.62	2.51	0.00	1.13	0.99	1.34	0.04	1370.74	15.03	48.48	344.18	400.00	1.00	283.1	7147.0	4193.33	88326.29	120.60	0.03	0.15	0.15
1/17/2025 7:00	5.62	5.22	0.00	2.62	2.51	0.00	1.13	0.99	1.34	0.04	1370.71	15.03	48.48	344.18	400.00	1.00	302.5	7636.8	4193.33	88326.29	126.86	0.03	0.16	0.16
1/17/2025 7:15	5.62	5.22	0.00	2.62	2.51	0.00	1.13	0.99	1.34	0.04	1370.74	15.03	48.48	344.18	400.00	1.00	309.2	7807.7	4193.33	88326.29	129.03	0.03	0.17	0.17
1/17/2025 7:30	5.62	5.22	0.00	2.62	2.51	0.00	1.13	0.99	1.34	0.04	1370.90	15.03	48.48	344.18	400.00	1.00	309.0	7802.1	4193.33	88326.29	128.97	0.03	0.17	0.17
1/17/2025 7:45	5.62	5.22	0.00	2.62	2.51	0.00	1.13	0.99	1.34	0.04	1370.86	15.03	48.48	344.18	400.00	1.00	304.4	7685.8	4193.33	88326.29	127.49	0.03	0.16	0.16
1/17/2025 8:00	5.62	5.22	0.00	2.62	2.51	0.00	1.13	0.99	1.34	0.04	1370.92	15.03	48.48	344.18	400.00	1.00	284.0	7170.0	4193.33	88326.29	120.92	0.03	0.15	0.15
1/17/2025 8:15	5.62	5.22	0.00	2.62	2.51	0.00	1.13	0.99	1.34	0.04	1371.01	15.03	48.48	344.18	400.00	1.00	297.7	7516.8	4193.33	88326.29	124.80	0.03	0.16	0.16
1/17/2025 8:30	5.62	5.22	0.00	2.62	2.51	0.00	1.13	0.99	1.34	0.04	1370.88	15.03	48.48	344.18	400.00	1.00	283.1	7148.5	4193.33	88326.29	120.64	0.03	0.15	0.15
1/17/2025 8:45	5.62	5.22	0.00	2.62	2.51	0.00	1.13	0.99	1.34	0.04	1370.72	15.03	48.48	344.18	400.00	1.00	292.7	7389.8	4193.33	88326.29	123.71	0.03	0.16	0.16
1/17/2025 9:00	5.62	5.22	0.00	2.62	2.51	0.00	1.13	0.99	1.34	0.04	1370.77	15.03	48.48	344.18	400.00	1.00	289.7	7314.1	4193.33	88326.29	122.76	0.03	0.16	0.16
1/17/2025 9:15	5.62	5.22	0.00	2.62	2.51	0.00	1.13	0.99	1.34	0.04	1370.82	15.03	48.48	344.18	400.00	1.00	299.8	7570.2	4193.33	88326.29	126.02	0.03	0.16	0.16
1/17/2025 9:30	5.62	5.22	0.00	2.62	2.51	0.00	1.13	0.99	1.34	0.04	1370.68	15.03	48.48	344.18	400.00	1.00	294.8	7444.3	4193.33	88326.29	124.41	0.03	0.16	0.16
1/17/2025 9:45	5.62	5.22	0.00	2.62	2.51	0.00	1.13	0.99	1.34	0.04	1370.43	15.03	48.48	344.18	400.00	1.00	300.1	7576.4	4193.33	88326.29	126.05	0.03	0.16	0.16
1/17/2025 10:00	5.62	5.22	0.00	2.62	2.51	0.00	1.13	0.99	1.34	0.04	1370.29	15.03	48.48	344.18	400.00	1.00	298.9	7547.6	4193.33	88326.29	125.69	0.03	0.16	0.16
1/17/2025 10:15	5.62	5.22	0.00	2.62	2.51	0.00	1.13	0.99	1.34	0.04	1370.05	15.03	48.48	344.18	400.00	1.00	317.4	8012.6	4193.33	88326.29	131.55	0.03	0.17	0.17
1/17/2025 10:30	5.61	5.22	0.00	2.61	2.51	0.00	1.13	0.99	1.33	0.04	1369.63	15.04	48.48	344.18	400.00	1.00	340.4	8594.4	4193.33	88326.29	138.80	0.03	0.18	0.18
1/17/2025 10:45	5.61	5.22	0.00	2.61	2.51	0.00	1.13	0.99	1.33	0.04	1369.46	15.04	48.48	344.18	400.00	1.00	333.8	8427.0	4193.33	88326.29	136.69	0.03	0.18	0.18
1/17/2025 11:00	5.61	5.21	0.00	2.61	2.50	0.00	1.13	0.99	1.33	0.04	1368.38	15.04	48.48	344.18	400.00	1.00	346.6	8749.4	4193.33	88326.29	140.59	0.03	0.19	0.19
1/17/2025 11:15	5.61	5.21	0.00	2.61	2.50	0.00	1.13	0.99	1.33	0.04	1367.55	15.04	48.48	344.18	400.00	1.00	349.3	8815.7	4193.33	88326.29	141.35	0.03	0.19	0.19
1/17/2025 11:30	5.61	5.21	0.00	2.61	2.50	0.00	1.13	0.99	1.33	0.04	1368.23	15.04	48.48	344.18	400.00	1.00	340.0	8581.6	4193.33	88326.29	138.52	0.03	0.18	0.18
1/17/2025 11:45	5.61	5.22	0.00	2.61	2.50	0.00	1.13	0.99	1.33	0.04	1368.81	15.04	48.48	344.18	400.00	1.00	337.7	8524.5	4193.33	88326.29	137.86	0.03	0.18	0.18
1/17/2025 12:00	5.61	5.22	0.00	2.61	2.50	0.00	1.13	0.99	1.33	0.04	1369.18	15.04	48.48	344.18	400.00	1.00	344.0	8684.9	4193.33	88326.29	139.88	0.03	0.19	0.19
1/17/2025 12:15	5.61	5.22	0.00	2.61	2.50	0.00	1.13	0.99	1.33	0.04	1368.91	15.04	48.48	344.18	400.00	1.00	339.8	8578.6	4193.33	88326.29	138.54	0.03	0.18	0.18
1/17/2025 12:30	5.61	5.22	0.00	2.61	2.50	0.00	1.13	0.99	1.33	0.04	1368.66	15.04	48.48	344.18	400.00	1.00	342.4	8643.2	4193.33	88326.29	139.32	0.03	0.19	0.19
1/17/2025 12:45	5.61	5.21	0.00	2.61	2.50	0.00	1.13	0.99	1.33	0.04	1367.48	15.04	48.48	344.18	400.00	1.00	349.3	8814.3	4193.33	88326.29	141.31	0.03	0.19	0.19
1/17/2025 13:00	5.61	5.21	0.00	2.61	2.50	0.00	1.13	0.99	1.33	0.04	1368.41	15.04	48.48	344.18	400.00	1.00	350.1	8837.2	4193.33	88326.29	141.68	0.03	0.19	0.19
1/17/2025 13:15	5.61	5.21	0.00	2.61	2.50	0.00	1.13	0.99	1.33	0.04	1368.02	15.04	48.48	344.18	400.00	1.00	349.9	8830.3	4193.33	88326.29	141.56	0.03	0.19	0.19
1/17/2025 13:30	5.60	5.21	0.00	2.61	2.50	0.00	1.13	0.99	1.33	0.04	1367.37	15.04	48.48	344.18	400.00	1.00	351.3	8866.7	4193.33	88326.29	141.95	0.03	0.19	0.19
1/17/2025 13:45	5.61	5.22	0.00	2.61	2.50	0.00	1.13	0.99	1.33	0.04	1368.59	15.04	48.48	344.18	400.00	1.00	310.4	7835.3	4193.33	88326.29	129.05	0.03	0.17	0.17
1/17/2025 14:00	5.61	5.21	0.00	2.61	2.50	0.00	1.13	0.99	1.33	0.04	1368.38	15.04	48.48	344.18	400.00	1.00	237.9	6004.4	4193.33	88326.29	105.66	0.03	0.13	0.13
1/17/2025 14:15	5.61	5.21	0.00	2.61	2.50	0.00	1.13	0.99	1.33	0.04	1368.45	15.04	48.48	344.18	400.00	1.00	244.8	6177.7	4193.33	88326.29	107.91	0.03	0.13	0.13
1/17/2025 14:30	5.61	5.21	0.00	2.61	2.50	0.00	1.13	0.99	1.33	0.04	1368.44	15.04	48.48	344.18	400.00	1.00	277.8	7013.1	4193.33	88326.29	118.52	0.03	0.15	0.15
1/17/2025 14:45	5.61	5.22	0.00	2.61	2.50	0.00	1.13	0.99	1.33	0.04	1368.59	15.04	48.48	344.18	400.00	1.00	234.6	5921.9	4193.33	88326.29	104.58	0.03	0.13	0.13
1/17/2025 15:00	5.61	5.21	0.00	2.61	2.50	0.00	1.13	0.99	1.33	0.04	1368.36	15.04	48.48	344.18	400.00	1.00	247.5	6246.1	4193.33	88326.29	108.69	0.03	0.13	0.13
1/17/2025 15:15	5.61	5.21	0.00	2.61	2.50	0.00	1.13	0.99	1.33	0.04	1368.41	15.04	48.48	344.18	400.00	1.00	245.4	6193.9	4193.33	88326.29	108.02	0.03	0.13	0.13
1/17/2025 15:30	5.61	5.21	0.00	2.61	2.50	0.00	1.13	0.99	1.33	0.04	1367.53	15.04	48.48	344.18	400.00	1.00	221.3	5584.4	4193.33	88326.29	100.01	0.03	0.12	0.12
1/17/2025 15:45	5.61	5.21	0.00	2.61	2.50	0.00	1.13	0.99	1.33	0.04	1367.79	15.04	48.48	344.18	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
1/17/2025 16:00	5.61	5.21	0.00	2.61	2.50	0.00	1.13	0.99	1.33	0.04	1368.55	15.04	48.48	344.18	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
1/21/2025 11:00	6.09	5.37	0.00	2.63	2.49	0.00	1.10	0.94	1.11	0.04	1376.14	14.72	48.45	344.00	400.00	0.20	11	284	839	17665	761	0.01	0.01	0.01
1/21/2025 11:15	6.09	5.37	0.00	2.63	2.49	0.00	1.10	0.94	1.11	0.04	1376.10	14.72	48.45	344.00	400.00	0.33	47	1206	1398	29442	651	0.01	0.02	0.02
1/21/2025 11:30	6.09	5.37	0.00	2.63	2.49	0.00	1.10	0.94	1.11	0.04	1375.95	14.72	48.45	344.00	400.00	0.00	0	0	0	0	940	0.00	0.00	0.00
2/1/2025 9:30	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.55	15.96	48.56	344.79	400.00	0.00	0	0	0	0	940	0.00	0.00	0.00
2/1/2025 9:45	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.08	15.96	48.56	344.79	400.00	0.00	0	0	0	0	940	0.00	0.00	0.00
2/1/2025 10:00	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.14	15.96	48.56	344.79	400.00	0.00	0	0	0	0	940	0.00	0.00	0.00
2/1/2025 10:15	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.09	15.96	48.56	344.79	400.00	0.00	0	0	0	0	940	0.00	0.00	0.00
2/1/2025 10:30	4.97	3.38	0.00	2.67	2.35	0.00	1.38	1.05	1.45	0.04	1276.69	15.96	48.56	344.79	400.00	0.07	9	207	280	5888	882	0.00	0.01	0.01
2/1/2025 10:45	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1276.89	15.96	48.56	344.79	400.00	0.07	1	20	280	5888	879	0.00	0.00	0.00
2/1/2025 11:00	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.08	15.96	48.56	344.79	400.00	0.87	12	275	3634	76549	148	0.02	0.01	0.01
2/1/2025 11:15	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.12	15.96	48.56	344.79	400.00	1.00	143	3401	4193	88326	66	0.03	0.11	0.11
2/1/2025 11:30	4.97	3.38	0.00	2.67	2.35	0.00	1.38	1.05	1.45	0.04	1276.73	15.96	48.56	344.79	400.00	1.00	62	1470	4193	88326	42	0.03	0.05	0.05
2/1/2025 11:45	4.96	3.37	0.00	2.66	2.35	0.00	1.38	1.05	1.45	0.04	1275.80	15.97	48.56	344.79	400.00	1.00	77	1826	4193	88326	47	0.03	0.06	0.06
2/1/2025 12:00	4.96	3.37	0.00	2.67	2.35	0.00	1.38	1.05	1.45	0.04	1275.96	15.96	48.56	344.79	400.00	1.00	103	2443	4193	88326	55	0.03	0.08	0.08
2/1/2025 12:15	4.96	3.37	0.00	2.66	2.35	0.00	1.38	1.05	1.45	0.04	1275.84	15.97	48.56	344.79	400.00	1.00	113	2681	4193	88326	58	0.03	0.08	0.08
2/1/2025 12:30	4.97	3.37	0.00	2.67	2.35	0.00	1.38	1.05	1.45	0.04	1276.00	15.96	48.56	344.79	400.00	1.00	198	4700	4193	88326	83	0.03	0.15	0.15
2/1/2025 12:45	4.96	3.37	0.00	2.66	2.35	0.00	1.38	1.05	1.45	0.04	1275.67	15.97	48.56	344.79	400.00	1.00	136	3241	4193	88326	65	0.03	0.10	0.10
2/1/2025 13:00	4.97	3.38	0.00	2.67	2.35	0.00	1.38	1.05	1.45	0.04	1276.33	15.96	48.56	344.79	400.00	1.00	138	3282	4193	88326	66	0.03	0.10	0.10
2/1/2025 13:15	4.97	3.37	0.00	2.67	2.35	0.00	1.38	1.05	1.45	0.04	1276.08	15.96	48.56	344.79	400.00	1.00	135	3207	4193	88326	65	0.03	0.10	0.10
2/1/2025 13:30	4.96	3.37	0.00	2.66	2.35	0.00	1.38	1.05	1.45	0.04	1275.73	15.97	48.56	344.79	400.00	1.00	139	3314	4193	88326	66	0.03	0.10	0.10
2/1/2025 13:45	4.96	3.37	0.00	2.66	2.35	0.00	1.37	1.05	1.45	0.04	1275.04	15.97	48.56	344.79	400.00	1.00	149	3533	4193	88326	69	0.03	0.11	0.11
2/1/2025 14:00	4.96	3.37	0.00	2.66	2.35	0.00	1.37	1.05	1.45	0.04	1274.74	15.97	48.56	344.79	400.00	1.00	276	6561	4193	88326	106	0.03	0.20	0.20
2/1/2025 14:15	4.96	3.37	0.00	2.66	2.35	0.00	1.37	1.05	1.45	0.04	1275.17	15.97	48.56	344.79	400.00	1.00	189	4489	4193	88326	81	0.03	0.14	0.14
2/1/2025 14:30	4.96	3.37	0.00	2.66	2.35	0.00	1.37	1.05	1.45	0.04	1274.26	15.97	48.56	344.79	400.00	1.00	190	4525	4193	88326	82	0.03	0.14	0.14
2/1/2025 14:45	4.96	3.37	0.00	2.66	2.35	0.00	1.37	1.05	1.45	0.04	1274.62	15.97	48.56	344.79	400.00	1.00	182	4331	4193	88326	79	0.03	0.13	0.13
2/1/2025 15:00	4.96	3.37	0.00	2.66	2.35	0.00	1.37	1.05	1.45	0.04	1274.68	15.97	48.56	344.79	400.00	1.00	178	4230	4193	88326	78	0.03	0.13	0.13
2/1/2025 15:15	4.96	3.37	0.00	2.66	2.35	0.00	1.37	1.05	1.45	0.04	1274.88	15.97	48.56	344.79	400.00	1.00	230	5465	4193	88326	93	0.03	0.17	0.17
2/1/2025 15:30	4.96	3.37	0.00	2.66	2.35	0.00	1.37	1.05	1.45	0.04	1274.79	15.97	48.56	344.79	400.00	1.00	305	7239	4193	88326	114	0.03	0.22	0.22
2/1/2025 15:45	4.96	3.37	0.00	2.66	2.35	0.00	1.37	1.05	1.45	0.04	1274.93	15.97	48.56	344.79	400.00	1.00	266	6312	4193	88326	103	0.03	0.19	0.19
2/1/2025 16:00	4.96	3.37	0.00	2.66	2.35	0.00	1.38	1.05	1.45	0.04	1275.62	15.97	48.56	344.79	400.00	1.00	290	6888	4193	88326	110	0.03	0.21	0.21
2/1/2025 16:15	4.96	3.37	0.00	2.67	2.35	0.00	1.38	1.05	1.45	0.04	1275.93	15.97	48.56	344.79	400.00	1.00	283	6728	4193	88326	108	0.03	0.21	0.21
2/1/2025 16:30	4.97	3.38	0.00	2.67	2.35	0.00	1.38	1.05	1.45	0.04	1276.44	15.96	48.56	344.79	400.00	1.00	278	6618	4193	88326	107	0.03	0.20	0.20
2/1/2025 16:45	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.05	1.45	0.04	1276.75	15.96	48.56	344.79	400.00	1.00	266.1	6327.6	4193.33	88326.29	103.20	0.03	0.20	0.20
2/1/2025 17:00	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1276.90	15.96	48.56	344.79	400.00	1.00	253.6	6029.7	4193.33	88326.29	99.57	0.03	0.19	0.19
2/1/2025 17:15	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1276.95	15.96	48.56	344.79	400.00	1.00	242.6	5767.7	4193.33	88326.29	96.25	0.03	0.18	0.18
2/1/2025 17:30	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.02	15.96	48.56	344.79	400.00	1.00	244.3	5808.6	4193.33	88326.29	96.91	0.03	0.18	0.18
2/1/2025 17:45	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.03	15.96	48.56	344.79	400.00	1.00	234.2	5569.1	4193.33	88326.29	93.86	0.03	0.17	0.17
2/1/2025 18:00	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.10	15.96	48.56	344.79	400.00	1.00	235.9	5609.1	4193.33	88326.29	94.36	0.03	0.17	0.17
2/1/2025 18:15	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.00	15.96	48.56	344.79	400.00	0.80	111.1	2641.9	3354.66	70661.03	240.11	0.02	0.08	0.08
2/1/2025 18:30	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.21	15.96	48.56	344.79	400.00	0.20	41.4	983.9	838.67	17665.26	769.05	0.01	0.03	0.03
2/1/2025 18:45	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.18	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/1/2025 19:00	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.09	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/1/2025 19:15	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.09	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/1/2025 19:30	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.24	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/1/2025 19:45	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.26	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/1/2025 20:00	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.40	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/1/2025 20:15	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.41	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/1/2025 20:30	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.49	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/1/2025 20:45	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.52	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/1/2025 21:00	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.60	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/1/2025 21:15	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.66	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/1/2025 21:30	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.69	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/1/2025 21:45	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.70	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/1/2025 22:00	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.71	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/1/2025 22:15	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.72	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/1/2025 22:30	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.72	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/1/2025 22:45	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.72	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/1/2025 23:00	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.75	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/1/2025 23:15	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.75	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/1/2025 23:30	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.74	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/1/2025 23:45	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.66	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/2/2025 0:00	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.64	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/2/2025 0:15	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.61	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/2/2025 0:30	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.57	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/2/2025 0:45	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.56	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/2/2025 1:00	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.54	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/2/2025 1:15	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.41	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/2/2025 1:30	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.44	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/2/2025 1:45	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.46	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/2/2025 2:00	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.51	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/2/2025 2:15	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.50	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/2/2025 2:30	4.97	3.38	0.00	2.67	2.36	0.00	1.38	1.06	1.45	0.04	1277.00	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/2/2025 2:45	4.97	3.38	0.00	2.67	2.35	0.00	1.38	1.05	1.45	0.04	1276.49	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/2/2025 3:00	4.97	3.38	0.00	2.67	2.35	0.00	1.38	1.05	1.45	0.04	1276.47	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/2/2025 3:15	4.97	3.38	0.00	2.67	2.35	0.00	1.38	1.05	1.45	0.04	1276.44	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/2/2025 3:30	4.97	3.38	0.00	2.67	2.35	0.00	1.38	1.05	1.45	0.04	1276.51	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/2/2025 3:45	4.97	3.38	0.00	2.67	2.35	0.00	1.38	1.05	1.45	0.04	1276.56	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/2/2025 4:00	4.97	3.38	0.00	2.67	2.35	0.00	1.38	1.05	1.45	0.04	1276.50	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/2/2025 4:15	4.97	3.38	0.00	2.67	2.35	0.00	1.38	1.05	1.45	0.04	1276.57	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/2/2025 4:30	4.97	3.38	0.00	2.67	2.35	0.00	1.38	1.05	1.45	0.04	1276.59	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/2/2025 4:45	4.97	3.38	0.00	2.67	2.35	0.00	1.38	1.05	1.45	0.04	1276.58	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/2/2025 5:00	4.97	3.38	0.00	2.67	2.35	0.00	1.38	1.05	1.45	0.04	1276.58	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/2/2025 5:15	4.97	3.38	0.00	2.67	2.35	0.00	1.38	1.05	1.45	0.04	1276.51	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/2/2025 5:30	4.97	3.38	0.00	2.67	2.35	0.00	1.38	1.05	1.45	0.04	1276.51	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/2/2025 5:45	4.97	3.38	0.00	2.67	2.35	0.00	1.38	1.05	1.45	0.04	1276.47	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/2/2025 6:00	4.97	3.38	0.00	2.67	2.35	0.00	1.38	1.05	1.45	0.04	1276.39	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/2/2025 6:15	4.97	3.38	0.00	2.67	2.35	0.00	1.38	1.05	1.45	0.04	1276.32	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/2/2025 6:30	4.97	3.38	0.00	2.67	2.35	0.00	1.38	1.05	1.45	0.04	1276.22	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/2/2025 6:45	4.97	3.38	0.00	2.67	2.35	0.00	1.38	1.05	1.45	0.04	1276.18	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/2/2025 7:00	4.97	3.37	0.00	2.67	2.35	0.00	1.38	1.05	1.45	0.04	1276.15	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/2/2025 7:15	4.97	3.37	0.00	2.67	2.35	0.00	1.38	1.05	1.45	0.04	1276.14	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/2/2025 7:30	4.97	3.38	0.00	2.67	2.35	0.00	1.38	1.05	1.45	0.04	1276.27	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/2/2025 7:45	4.97	3.38	0.00	2.67	2.35	0.00	1.38	1.05	1.45	0.04	1276.27	15.96	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/2/2025 8:00	4.97	3.38	0.00	2.67	2.35	0.00	1.38	1.05	1.45	0.04	1276.23	15.96	48.56	344.79	400.00	0.53	13.4	318.4	2236.44	47107.35	454.69	0.01	0.01	0.01
2/2/2025 8:15	4.97	3.38	0.00	2.67	2.35	0.00	1.38	1.05	1.45	0.04	1276.23	15.96	48.56	344.79	400.00	0.60	10.8	256.6	2516.00	52995.77	392.64	0.02	0.01	0.01
2/2/2025 8:30	4.97	3.38	0.00	2.67	2.35	0.00	1.38	1.05	1.45	0.04	1276.17	15.96	48.56	344.79	400.00	1.00	42.7	1015.2	4193.33	88326.29	35.72	0.03	0.03	0.03
2/2/2025 8:45	4.97	3.37	0.00	2.67	2.35	0.00	1.38	1.05	1.45	0.04	1276.09	15.96	48.56	344.79	400.00	1.00	45.3	1076.7	4193.33	88326.29	36.52	0.03	0.03	0.03
2/2/2025 9:00	4.97	3.37	0.00	2.67	2.35	0.00	1.38	1.05	1.45	0.04	1276.01	15.96	48.56	344.79	400.00	0.73	35.2	836.1	3075.11	64772.61	278.08	0.02	0.03	0.03
2/2/2025 9:15	4.96	3.37	0.00	2.67	2.35	0.00	1.38	1.05	1.45	0.04	1275.94	15.97	48.56	344.79	400.00	0.87	155.8	3705.3	3634.22	76549.45	192.59	0.02	0.11	0.11
2/2/2025 9:30	4.96	3.37	0.00	2.67	2.35	0.00	1.38	1.05	1.45	0.04	1275.87	15.97	48.56	344.79	400.00	0.13	2.7	63.6	559.11	11776.84	818.45	0.00	0.00	0.00
2/2/2025 9:45	4.96	3.37	0.00	2.66	2.35	0.00	1.38	1.05	1.45	0.04	1275.79	15.97	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/2/2025 10:00	4.96	3.37	0.00	2.66	2.35	0.00	1.38	1.05	1.45	0.04	1275.78	15.97	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/2/2025 10:15	4.96	3.37	0.00	2.66	2.35	0.00	1.38	1.05	1.45	0.04	1275.77	15.97	48.56	344.79	400.00	0.47	16.7	395.9	1956.89	41218.93	516.94	0.01	0.01	0.01
2/2/2025 10:30	4.96	3.37	0.00	2.66	2.35	0.00	1.38	1.05	1.45	0.04	1275.71	15.97	48.56	344.79	400.00	0.60	8.2	194.5	2516.00	52995.77	391.78	0.02	0.01	0.01
2/2/2025 10:45	4.96	3.37	0.00	2.66	2.35	0.00	1.38	1.05	1.45	0.04	1275.56	15.97	48.56	344.79	400.00	0.53	14.0	333.2	2236.44	47107.35	454.88	0.01	0.01	0.01
2/2/2025 11:00	4.96	3.37	0.00	2.66	2.35	0.00	1.37	1.05	1.45	0.04	1275.41	15.97	48.56	344.79	400.00	1.00	68.3	1623.7	4193.33	88326.29	43.92	0.03	0.05	0.05
2/2/2025 11:15	4.96	3.37	0.00	2.66	2.35	0.00	1.38	1.05	1.45	0.04	1275.47	15.97	48.56	344.79	400.00	1.00	95.6	2272.4	4193.33	88326.29	52.55	0.03	0.07	0.07
2/2/2025 11:30	4.96	3.37	0.00	2.66	2.35	0.00	1.38	1.05	1.45	0.04	1275.49	15.97	48.56	344.79	400.00	1.00	65.9	1565.5	4193.33	88326.29	43.12	0.03	0.05	0.05
2/2/2025 11:45	4.96	3.37	0.00	2.66	2.35	0.00	1.38	1.05	1.45	0.04	1275.51	15.97	48.56	344.79	400.00	0.53	10.7	254.3	2236.44	47107.35	453.81	0.01	0.01	0.01
2/2/2025 12:00	4.96	3.37	0.00	2.66	2.35	0.00	1.38	1.05	1.45	0.04	1275.48	15.97	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00
2/2/2025 12:15	4.96	3.37	0.00	2.66	2.35	0.00	1.38	1.05	1.45	0.04	1275.46	15.97	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00	0.00

36inch Flare / 24inch Flare / Pit Flare (cells shaded: Flare Not Active This Event)

36inch Flare Active Estimate	36inch Flow Estimate	36inch Flow Estimate	36inch Steam Flow Estimate	36inch Steam Flow Estimate	Net Heating Value	Actual Velocity	SO2 Emissions	24inch Flare Active Estimate	24inch Flow Estimate	24inch Flow Estimate	24inch Steam Flow Estimate	24inch Steam Flow Estimate	Net Heating Value	Actual Velocity	SO2 Emissions	Pit Flare Active Estimate	Pit Flare Scenario	Pit Flow Estimate	Pit Flow Estimate	Net Heating Value	Actual Velocity	SO2 Emissions
2.8					NHVcz			3					NHVcz			5.5						
	lb/hr	SCFH	lb/hr	SCFH	BTU/SCF	ft/s	kg/period		lb/hr	SCFH	lb/hr	SCFH	BTU/SCF	ft/s	kg/period			lb/hr	SCFH	BTU/SCF	ft/s	kg/period

Flare Sulphur Emissions

** Data reported below is ONLY covering the times the flares were actively flaring process gasses*

**The Flare Gas compositions are estimated based on the heat and material balance, and lab analysis of flare header samples and unit operations*

= Flare Not Active This Event (grey shading)

Historian Data

	Flare Header Pressure	Flare Gas Compressor Spillback	Flare Flow Meter			36inch Pilots			36inch Steam OP	24inch Pilots		24inch Steam	Ambient Temperature
	20_PI947	03PC105	14_FR631	14_FI631	14_MI631	98_TI401	98_TI401	98_TI401	98_FC403	98_TI402	98_TI402	98_FC403	14_TI1006
	PSIG	%	KSCFH	KLB/HR	LB/LB-MOL	DEGF	DEGF	DEGF	%	DEGF	DEGF	%	DEGF
2/2/2025 12:30	1.14	26.00	49.65	6.06	47.75	781.96	739.89	711.62	-6.90	969.70	1206.76	-6.90	26.22
2/2/2025 12:45	1.14	26.00	52.36	6.58	47.93	782.67	744.03	714.25	-6.90	975.34	1213.63	-6.90	26.49
2/2/2025 13:00	1.12	26.00	47.79	7.20	47.34	790.90	760.06	710.72	-6.90	968.44	1232.50	-6.90	26.27
2/2/2025 13:15	1.11	26.00	62.38	7.28	47.47	789.23	756.04	713.76	-6.90	969.82	1228.12	-6.90	26.51
2/2/2025 13:30	1.07	26.00	54.19	6.32	48.23	787.50	745.43	719.75	-6.90	978.59	1221.16	-6.90	26.97
2/2/2025 13:45	1.07	26.00	53.69	6.66	48.06	782.29	742.29	727.52	-6.90	1003.04	1197.52	-6.90	27.59
2/2/2025 14:00	1.06	26.00	55.50	6.72	48.02	788.34	742.85	720.68	-6.90	989.51	1218.59	-6.90	27.07
2/2/2025 14:15	1.21	26.00	62.93	7.26	49.11	780.63	745.77	725.76	-6.90	1001.88	1193.14	-6.90	26.04
2/2/2025 14:30	1.22	26.00	57.88	7.04	47.89	755.18	754.40	716.96	-6.90	1022.27	1170.00	-6.90	25.76
2/2/2025 14:45	1.25	26.00	55.62	6.67	46.43	733.73	741.85	757.98	-6.90	1032.29	1181.85	-6.90	25.81
2/2/2025 15:00	1.33	26.00	45.59	6.19	46.02	743.96	732.11	750.64	-6.90	1023.06	1187.31	-6.90	25.99

Calculated Data — Flare Gas Composition

	Water Vapour /Partial Pressure	Water	Hydrogen Sulphide	Sulphur Dioxide	Hydrogen	Oxygen	Nitrogen	Carbon Monoxide	Carbon Dioxide	Methane	Ethane	Propane	Propylene	i-Butane	n-Butane	Butylene	i-Pentane	n-Pentane	n-Hexane and C6+
	PSIA	Mol %	mol%	mol%	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %
2/2/2025 12:30	0.07	0.44	0.16	0.00	52.15	0.00	7.61	0.00	0.55	21.85	4.96	3.37	0.00	2.66	2.35	0.00	1.38	1.05	1.45
2/2/2025 12:45	0.07	0.44	0.16	0.00	52.15	0.00	7.61	0.00	0.55	21.85	4.96	3.37	0.00	2.66	2.35	0.00	1.37	1.05	1.45
2/2/2025 13:00	0.07	0.44	0.16	0.00	52.15	0.00	7.61	0.00	0.55	21.85	4.96	3.37	0.00	2.66	2.35	0.00	1.38	1.05	1.45
2/2/2025 13:15	0.07	0.45	0.16	0.00	52.15	0.00	7.61	0.00	0.55	21.85	4.96	3.37	0.00	2.66	2.35	0.00	1.37	1.05	1.45
2/2/2025 13:30	0.07	0.46	0.16	0.00	52.14	0.00	7.61	0.00	0.55	21.85	4.96	3.37	0.00	2.66	2.35	0.00	1.37	1.05	1.45
2/2/2025 13:45	0.07	0.47	0.16	0.00	52.14	0.00	7.61	0.00	0.55	21.84	4.96	3.37	0.00	2.66	2.35	0.00	1.37	1.05	1.45
2/2/2025 14:00	0.07	0.46	0.16	0.00	52.14	0.00	7.61	0.00	0.55	21.85	4.96	3.37	0.00	2.66	2.35	0.00	1.37	1.05	1.45
2/2/2025 14:15	0.07	0.43	0.16	0.00	52.16	0.00	7.61	0.00	0.55	21.85	4.96	3.37	0.00	2.66	2.35	0.00	1.38	1.05	1.45
2/2/2025 14:30	0.07	0.43	0.16	0.00	52.16	0.00	7.61	0.00	0.55	21.85	4.96	3.37	0.00	2.66	2.35	0.00	1.38	1.05	1.45
2/2/2025 14:45	0.07	0.43	0.16	0.00	52.16	0.00	7.61	0.00	0.55	21.85	4.96	3.37	0.00	2.66	2.35	0.00	1.38	1.05	1.45
2/2/2025 15:00	0.07	0.43	0.16	0.00	52.16	0.00	7.61	0.00	0.55	21.85	4.96	3.37	0.00	2.66	2.35	0.00	1.38	1.05	1.45

Property Calculations / ZTOF

	Flare Gas Lower Flamibility Limit	Net Heating Value	Molecular Weight	NFVvg-LFL	Calc Net Heating Value Limit	Maximum Velocity	ZTOF Stage Estimate	ZTOF Flow Estimate	ZTOF Flow Estimate	ZTOF Steam Flow Estimate	ZTOF Steam Flow Estimate	Net Heating Value	Actual Velocity	SO2 Emissions
	LFLvg	NHVvg			NHVcz-limit		1					NHVcz		
		BTU/SCF	lb/lbmol		BTU/SCF	ft/s		lb/hr	SCFH	lb/hr	SCFH	BTU/SCF	ft/s	kg/period
2/2/2025 12:30	0.04	1275.45	15.97	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00
2/2/2025 12:45	0.04	1275.39	15.97	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00
2/2/2025 13:00	0.04	1275.44	15.97	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00
2/2/2025 13:15	0.04	1275.38	15.97	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00
2/2/2025 13:30	0.04	1275.25	15.97	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00
2/2/2025 13:45	0.04	1275.10	15.97	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00
2/2/2025 14:00	0.04	1275.22	15.97	48.56	344.79	400.00	0.00	0.0	0.0	0.00	0.00	940.00	0.00	0.00
2/2/2025 14:15	0.04	1275.52	15.97	48.56	344.79	400.00	0.80	132.1	3141.4	3354.66	70661.03	245.54	0.02	0.10
2/2/2025 14:30	0.04	1275.59	15.97	48.56	344.79	400.00	1.00	82.0	1949.5	4193.33	88326.29	48.07	0.03	0.06
2/2/2025 14:45	0.04	1275.59	15.97	48.56	344.79	400.00	1.00	206.9	4918.1	4193.33	88326.29	85.68	0.03	0.15
2/2/2025 15:00	0.04	1275.57	15.97	48.56	344.79	400.00	1.00	557.1	13245.4	4193.33	88326.29	181.99	0.03	0.41

36Inch Flare / 24Inch Flare / Pit Flare / Total

	36inch Flare Active Estimate	36inch Flow Estimate	36inch Flow Estimate	36inch Steam Flow Estimate	36inch Steam Flow Estimate	Net Heating Value	Actual Velocity	SO2 Emissions	24inch Flare Active Estimate	24inch Flow Estimate	24inch Flow Estimate	24inch Steam Flow Estimate	24inch Steam Flow Estimate	Net Heating Value	Actual Velocity	SO2 Emissions	Pit Flare Active Estimate	Pit Flare Scenario	Pit Flow Estimate	Pit Flow Estimate	Net Heating Value	Actual Velocity	SO2 Emissions	Total SO2 Emissions
	2.8					NHVcz			3								5.5							
		lb/hr	SCFH	lb/hr	SCFH	BTU/SCF	ft/s	kg/period		lb/hr	SCFH	lb/hr	SCFH	BTU/SCF	ft/s	kg/period			lb/hr	SCFH	BTU/SCF	ft/s	kg/period	kg/period
2/2/2025 12:30																								0.00
2/2/2025 12:45																								0.00
2/2/2025 13:00																								0.00
2/2/2025 13:15																								0.00
2/2/2025 13:30																								0.00
2/2/2025 13:45																								0.00
2/2/2025 14:00																								0.00
2/2/2025 14:15																								0.10
2/2/2025 14:30																								0.06
2/2/2025 14:45																								0.15
2/2/2025 15:00																								0.41

Flare Sulphur Emissions

** Data reported below is ONLY covering the times the flares were actively flaring process gasses*

**The Flare Gas compositions are estimated based on the heat and material balance, and lab analysis of flare header samples and unit operations*

[grey box] = Flare Not Active This Event

Historian Data

	Flare Header Pressure	Flare Gas Compressor Spillback	Flare Flow Meter			36inch Pilots			36inch Steam OP	24inch Pilots		24inch Steam	Ambient Temperature
	20_PI947	03PC105	14_FR631	14_FI631	14_MI631	98_TI401	98_TI401	98_TI401	98_FC40	98_TI402	98_TI402	98_FC40	14_TI1006
	PSIG	%	KSCFH	KLB/HR	LB/LB-MOL	DEGF	DEGF	DEGF	%	DEGF	DEGF	%	DEGF
2/22/2025 2:15	1.59	10.00	86.14	7.53	34.17	714.90	704.93	706.03	-6.90	947.03	1027.38	-6.90	22.52
2/22/2025 2:30	1.58	10.00	92.72	7.35	33.42	710.91	699.57	710.07	-6.90	955.95	1036.15	-6.90	22.36
2/22/2025 2:45	1.59	10.00	88.44	7.13	33.15	710.00	691.01	702.46	-6.90	982.37	1066.00	-6.90	22.17
2/22/2025 3:00	1.58	10.00	86.99	7.44	32.82	709.62	690.20	704.14	-6.90	983.29	1064.48	-6.90	22.24
2/22/2025 3:15	1.58	10.00	80.61	6.30	33.23	711.86	694.95	698.48	-6.90	996.85	1062.27	-6.90	22.34
2/22/2025 3:30	1.60	10.00	107.75	8.48	32.67	724.15	700.41	694.90	-6.90	1016.36	1047.18	-6.90	22.81
2/22/2025 3:45	1.60	10.00	75.43	7.40	33.26	725.91	707.43	697.37	-6.90	1007.45	1042.33	-6.90	22.73
2/22/2025 4:00	1.58	10.00	88.40	7.84	33.69	722.48	707.23	702.16	-6.90	1007.42	1049.87	-6.90	22.58
2/22/2025 4:15	1.55	10.00	76.92	6.45	33.71	726.87	711.34	703.74	-6.90	990.65	1052.00	-6.90	22.47
2/22/2025 4:30	1.53	10.00	87.46	8.01	33.89	724.40	708.61	706.37	-6.90	958.19	1029.84	-6.90	22.70
2/22/2025 4:45	1.49	10.00	117.08	8.06	34.79	716.36	702.30	705.77	-6.90	957.73	1036.89	-6.90	22.55
2/22/2025 5:00	1.51	10.00	105.95	7.11	34.53	711.44	694.11	707.13	-6.90	977.22	1050.38	-6.90	22.71

Calculated Data — Flare Gas Composition

	Water Vapour/Partial Pressure	Water	Hydrogen Sulphide	Sulphur Dioxide	Hydrogen	Oxygen	Nitrogen	Carbon Monoxide	Carbon Dioxide	Methane	Ethane	Propane	Propylene	i-Butane	n-Butane	Butylene	i-Pentane	n-Pentane	n-Hexane and C6+
	PSIA	Mol %	mol%	mol%	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %
2/22/2025 2:15	0.06	0.37	0.09	0.00	70.94	0.00	1.58	0.00	0.30	16.67	2.40	2.48	0.00	1.35	1.30	0.00	0.69	0.58	1.26
2/22/2025 2:30	0.06	0.36	0.09	0.00	70.94	0.00	1.58	0.00	0.30	16.67	2.40	2.48	0.00	1.35	1.30	0.00	0.69	0.58	1.26
2/22/2025 2:45	0.06	0.36	0.09	0.00	70.95	0.00	1.58	0.00	0.30	16.67	2.40	2.48	0.00	1.35	1.30	0.00	0.69	0.58	1.26
2/22/2025 3:00	0.06	0.36	0.09	0.00	70.95	0.00	1.58	0.00	0.30	16.67	2.40	2.48	0.00	1.35	1.30	0.00	0.69	0.58	1.26
2/22/2025 3:15	0.06	0.36	0.09	0.00	70.94	0.00	1.58	0.00	0.30	16.67	2.40	2.48	0.00	1.35	1.30	0.00	0.69	0.58	1.26
2/22/2025 3:30	0.06	0.37	0.09	0.00	70.94	0.00	1.58	0.00	0.30	16.67	2.40	2.48	0.00	1.35	1.30	0.00	0.69	0.58	1.26
2/22/2025 3:45	0.06	0.37	0.09	0.00	70.94	0.00	1.58	0.00	0.30	16.67	2.40	2.48	0.00	1.35	1.30	0.00	0.69	0.58	1.26
2/22/2025 4:00	0.06	0.37	0.09	0.00	70.94	0.00	1.58	0.00	0.30	16.67	2.40	2.48	0.00	1.35	1.30	0.00	0.69	0.58	1.26
2/22/2025 4:15	0.06	0.37	0.09	0.00	70.94	0.00	1.58	0.00	0.30	16.67	2.40	2.48	0.00	1.35	1.30	0.00	0.69	0.58	1.26
2/22/2025 4:30	0.06	0.37	0.09	0.00	70.94	0.00	1.58	0.00	0.30	16.67	2.40	2.48	0.00	1.35	1.30	0.00	0.69	0.58	1.26
2/22/2025 4:45	0.06	0.37	0.09	0.00	70.94	0.00	1.58	0.00	0.30	16.67	2.40	2.48	0.00	1.35	1.30	0.00	0.69	0.58	1.26
2/22/2025 5:00	0.06	0.37	0.09	0.00	70.94	0.00	1.58	0.00	0.30	16.67	2.40	2.48	0.00	1.35	1.30	0.00	0.69	0.58	1.26

Property Calculations / ZTOF

	Flare Gas Lower Flamibility Limit	Net Heating Value	Molecular Weight	NFVvg-LFL	Calc Net Heating Value Limit	Maximum Velocity	ZTOF Stage Estimate	ZTOF Flow Estimate	ZTOF Flow Estimate	ZTOF Steam Flow Estimate	ZTOF Steam Flow Estimate	Net Heating Value	Actual Velocity	SO2 Emissions
	LFLvg	NHVvg			NHVcz-limit		1					NHVcz		
		BTU/SCF	lb/lbmol		BTU/SCF	ft/s		lb/hr	SCFH	lb/hr	SCFH	BTU/SCF	ft/s	kg/period
2/22/2025 2:15	0.04	1275.62	10.13	48.41	343.71	400.00	1.00		45564	4193	88326	441	0.04	0.73
2/22/2025 2:30	0.04	1275.65	10.13	48.41	343.71	400.00	1.00		52724	4193	88326	482	0.04	0.84
2/22/2025 2:45	0.04	1275.69	10.13	48.41	343.71	400.00	1.00		47321	4193	88326	452	0.04	0.76
2/22/2025 3:00	0.04	1275.68	10.13	48.41	343.71	400.00	1.00		48918	4193	88326	462	0.04	0.78
2/22/2025 3:15	0.04	1275.66	10.13	48.41	343.71	400.00	1.00		48887	4193	88326	462	0.04	0.78
2/22/2025 3:30	0.04	1275.57	10.13	48.41	343.71	400.00	1.00		46633	4193	88326	448	0.04	0.74
2/22/2025 3:45	0.04	1275.58	10.13	48.41	343.71	400.00	1.00		39933	4193	88326	405	0.04	0.64
2/22/2025 4:00	0.04	1275.61	10.13	48.41	343.71	400.00	1.00		39599	4193	88326	403	0.04	0.63
2/22/2025 4:15	0.04	1275.62	10.13	48.41	343.71	400.00	1.00		43597	4193	88326	429	0.04	0.70
2/22/2025 4:30	0.04	1275.57	10.13	48.41	343.71	400.00	1.00		37991	4193	88326	392	0.04	0.61
2/22/2025 4:45	0.04	1275.59	10.13	48.41	343.71	400.00	1.00		43090	4193	88326	426	0.04	0.69
2/22/2025 5:00	0.04	1275.56	10.13	48.41	343.71	400.00	1.00		35079	4193	88326	370	0.04	0.56

36Inch Flare / 24Inch Flare / Pit Flare / Total

	36inch Flare Active Estimate	36inch Flow Estimate	36inch Flow Estimate	36inch Steam Flow Estimate	36inch Steam Flow Estimate	Net Heating Value	Actual Velocity	SO2 Emissions	24inch Flare Active Estimate	24inch Flow Estimate	24inch Flow Estimate	24inch Steam Flow Estimate	24inch Steam Flow Estimate	Net Heating Value	Actual Velocity	SO2 Emissions	Pit Flare Active Estimate	Pit Flare Scenario	Pit Flow Estimate	Pit Flow Estimate	Net Heating Value	Actual Velocity	SO2 Emissions	Total SO2 Emissions
	2.8					NHVcz			3								5.5							
		lb/hr	SCFH	lb/hr	SCFH	BTU/SCF	ft/s	kg/period		lb/hr	SCFH	lb/hr	SCFH	BTU/SCF	ft/s	kg/period			lb/hr	SCFH	BTU/SCF	ft/s	kg/period	kg/period
2/22/2025 2:15																								0.73
2/22/2025 2:30																								0.84
2/22/2025 2:45																								0.76
2/22/2025 3:00																								0.78
2/22/2025 3:15																								0.78
2/22/2025 3:30																								0.74
2/22/2025 3:45																								0.64
2/22/2025 4:00																								0.63
2/22/2025 4:15																								0.70
2/22/2025 4:30																								0.61
2/22/2025 4:45																								0.69
2/22/2025 5:00																								0.56

Flare Sulphur Emissions

** Data reported below is ONLY covering the times the flares were actively flaring process gasses*

**The Flare Gas compositions are estimated based on the heat and material balance, and lab analysis of flare header samples and unit operations*

[grey box] = Flare Not Active This Event

Historian Data

	Flare Header Pressure	Flare Gas Compressor Spillback	Flare Flow Meter			36inch Pilots			36inch Steam OP	24inch Pilots		24inch Steam	Ambient Temperature	Water Vapour /Partial Pressure	Water
	20_PI947	03PC105	14_FR631	14_FI631	14_MI631	98_TI401	98_TI401	98_TI401	98_FC403	98_TI402	98_TI402	98_FC403	14_TI1006		
	PSIG	%	KSCFH	KLB/HR	LB/LB-MOL	DEGF	DEGF	DEGF	%	DEGF	DEGF	%	DEGF	PSIA	Mol %
2/28/2025 16:30	1.24	27.39	50.36	5.61	44.14	772.84	701.15	620.17	-6.90	922.13	1111.45	-6.90	39.32	0.12	0.74
2/28/2025 16:45	1.24	25.00	55.21	6.50	45.80	771.28	700.63	620.80	-6.90	933.38	1110.39	-6.90	38.96	0.12	0.73
2/28/2025 17:00	1.25	25.00	52.19	5.93	45.75	766.61	719.31	612.13	-6.90	951.17	1109.23	-6.90	38.91	0.12	0.73
2/28/2025 17:15	1.22	25.00	64.25	5.92	45.15	771.69	729.37	663.46	-6.90	986.79	1110.38	-6.90	38.13	0.11	0.71
2/28/2025 17:30	1.19	25.00	58.93	6.71	45.69	773.41	688.43	676.99	-6.90	963.62	1114.02	-6.90	38.03	0.11	0.71
2/28/2025 17:45	1.17	25.00	58.91	7.44	46.13	775.09	701.37	684.40	-6.90	955.94	1130.97	-6.90	38.13	0.11	0.71
2/28/2025 18:00	1.16	25.00	44.97	5.89	46.90	770.70	733.93	701.44	-6.90	975.31	1175.02	-6.90	38.30	0.11	0.72
2/28/2025 18:15	1.15	25.00	61.49	6.79	45.78	760.89	732.49	711.59	-6.90	993.78	1179.97	-6.90	38.18	0.11	0.71
2/28/2025 18:30	1.16	25.00	62.01	6.52	46.56	773.11	754.58	699.01	-6.90	960.01	1183.49	-6.90	38.32	0.11	0.72
2/28/2025 18:45	1.17	25.00	49.80	6.88	46.77	775.39	723.43	696.37	-6.90	954.10	1138.54	-6.90	38.43	0.11	0.72
2/28/2025 19:00	1.24	25.00	51.79	6.08	47.13	774.39	677.27	672.99	-6.90	954.91	1111.78	-6.90	39.12	0.12	0.74
2/28/2025 19:15	1.21	25.00	58.49	6.44	48.00	769.91	693.17	677.39	-6.90	960.40	1107.24	-6.90	39.49	0.12	0.75
2/28/2025 19:30	1.19	25.00	48.20	6.05	46.99	765.11	718.59	678.13	-6.90	979.32	1121.32	-6.90	39.32	0.12	0.74
2/28/2025 19:45	1.17	25.00	64.94	6.59	47.97	765.68	761.09	663.32	-6.90	1022.61	1148.96	-6.90	39.74	0.12	0.76
2/28/2025 20:00	1.19	25.00	63.34	7.02	48.98	763.53	746.50	667.54	-6.90	1010.26	1150.39	-6.90	40.03	0.12	0.77
2/28/2025 20:15	1.19	25.00	52.35	6.67	48.60	738.25	763.89	723.63	-6.90	1070.47	1177.99	-6.90	39.47	0.12	0.75
2/28/2025 20:30	1.18	25.00	59.53	6.92	48.38	755.16	772.35	732.94	-6.90	1072.34	1177.92	-6.90	39.59	0.12	0.75
2/28/2025 20:45	1.23	25.00	53.95	6.54	48.62	768.02	781.02	740.29	-6.90	1072.75	1180.97	-6.90	39.55	0.12	0.75
2/28/2025 21:00	1.19	25.00	58.32	6.86	48.64	773.86	783.35	725.46	-6.90	1072.81	1180.44	-6.90	40.80	0.13	0.79
2/28/2025 21:15	1.11	25.00	57.96	7.61	49.16	746.84	734.28	705.25	-6.90	1039.11	1110.42	-6.90	43.33	0.14	0.87
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Calculated Data — Flare Gas Composition

	Hydrogen Sulphide	Sulphur Dioxide	Hydrogen	Oxygen	Nitrogen	Carbon Monoxide	Carbon Dioxide	Methane	Ethane	Propane	Propylene	i-Butane	n-Butane	Butylene	i-Pentane	n-Pentane	n-Hexane and C6+
	mol%	mol%	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %
2/28/2025 16:30	0.09	0.00	63.08	0.00	0.39	0.00	0.39	18.57	3.58	4.49	0.00	2.32	2.23	0.00	1.16	0.95	2.01
2/28/2025 16:45	0.09	0.00	63.08	0.00	0.39	0.00	0.39	18.58	3.58	4.49	0.00	2.32	2.23	0.00	1.16	0.95	2.01
2/28/2025 17:00	0.09	0.00	63.08	0.00	0.39	0.00	0.39	18.58	3.58	4.49	0.00	2.32	2.23	0.00	1.16	0.95	2.01
2/28/2025 17:15	0.09	0.00	63.10	0.00	0.39	0.00	0.39	18.58	3.59	4.49	0.00	2.32	2.23	0.00	1.16	0.95	2.01
2/28/2025 17:30	0.09	0.00	63.10	0.00	0.39	0.00	0.39	18.58	3.59	4.49	0.00	2.32	2.23	0.00	1.16	0.95	2.01
2/28/2025 17:45	0.09	0.00	63.10	0.00	0.39	0.00	0.39	18.58	3.59	4.49	0.00	2.32	2.23	0.00	1.16	0.95	2.01
2/28/2025 18:00	0.09	0.00	63.09	0.00	0.39	0.00	0.39	18.58	3.58	4.49	0.00	2.32	2.23	0.00	1.16	0.95	2.01
2/28/2025 18:15	0.09	0.00	63.10	0.00	0.39	0.00	0.39	18.58	3.58	4.49	0.00	2.32	2.23	0.00	1.16	0.95	2.01
2/28/2025 18:30	0.09	0.00	63.09	0.00	0.39	0.00	0.39	18.58	3.58	4.49	0.00	2.32	2.23	0.00	1.16	0.95	2.01
2/28/2025 18:45	0.09	0.00	63.09	0.00	0.39	0.00	0.39	18.58	3.58	4.49	0.00	2.32	2.23	0.00	1.16	0.95	2.01
2/28/2025 19:00	0.09	0.00	63.08	0.00	0.39	0.00	0.39	18.58	3.58	4.49	0.00	2.32	2.23	0.00	1.16	0.95	2.01
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Property Calculations / ZTOF

	Flare Gas Lower Flamibility Limit	Net Heating Value	Molecular Weight	NFVvg-LFL	Calc Net Heating Value Limit	Maximum Velocity	ZTOF Stage Estimate	ZTOF Flow Estimate	ZTOF Flow Estimate	ZTOF Steam Flow Estimate	ZTOF Steam Flow Estimate	Net Heating Value	Actual Velocity	SO2 Emissions
	LFLvg	NHVvg			NHVcz-limit		1					NHVcz		
		BTU/SCF	lb/lbmol		BTU/SCF	ft/s		lb/hr	SCFH	lb/hr	SCFH	BTU/SCF	ft/s	kg/period
2/28/2025 16:30	0.04	1376.48	13.65	48.62	345.23	400.00	1.00	162	4517	4193	88326	86	0.03	0.08
2/28/2025 16:45	0.04	1376.63	13.65	48.62	345.23	400.00	1.00	179	4965	4193	88326	92	0.03	0.09
2/28/2025 17:00	0.04	1376.65	13.65	48.62	345.23	400.00	1.00	185	5141	4193	88326	95	0.03	0.09
2/28/2025 17:15	0.04	1376.93	13.65	48.62	345.23	400.00	1.00	66	1826	4193	88326	49	0.03	0.03
2/28/2025 17:30	0.04	1376.95	13.65	48.62	345.23	400.00	0.07	1	14	280	5888	879	0.00	0.00
2/28/2025 17:45	0.04	1376.91	13.65	48.62	345.23	400.00	0.00	0	0	0	0	940	0.00	0.00
2/28/2025 18:00	0.04	1376.83	13.65	48.62	345.23	400.00	0.00	0	0	0	0	940	0.00	0.00
2/28/2025 18:15	0.04	1376.87	13.65	48.62	345.23	400.00	0.00	0	0	0	0	940	0.00	0.00
2/28/2025 18:30	0.04	1376.83	13.65	48.62	345.23	400.00	0.00	0	0	0	0	940	0.00	0.00
2/28/2025 18:45	0.04	1376.79	13.65	48.62	345.23	400.00	0.00	0	0	0	0	940	0.00	0.00
2/28/2025 19:00	0.04	1376.56	13.65	48.62	345.23	400.00	0.93	149	4149	3914	82438	142	0.03	0.07
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

36Inch Flare / 24Inch Flare / Pit Flare

	36inch Flare Active Estimate	36inch Flow Estimate	36inch Flow Estimate	36inch Steam Flow Estimate	36inch Steam Flow Estimate	Net Heating Value	Actual Velocity	SO2 Emissions	24inch Flare Active Estimate	24inch Flow Estimate	24inch Flow Estimate	24inch Steam Flow Estimate	24inch Steam Flow Estimate	Net Heating Value	Actual Velocity	SO2 Emissions	Pit Flare Active Estimate	Pit Flare Scenario	Pit Flow Estimate	Pit Flow Estimate	Net Heating Value	Actual Velocity	SO2 Emissions	Total SO2 Emissions
	2.8					NHVcz			3								5.5							
		lb/hr	SCFH	lb/hr	SCFH	BTU/SCF	ft/s	kg/period		lb/hr	SCFH	lb/hr	SCFH	BTU/SCF	ft/s	kg/period			lb/hr	SCFH	BTU/SCF	ft/s	kg/period	kg/period
2/28/2025 16:30																								0.08
2/28/2025 16:45																								0.09
2/28/2025 17:00																								0.09
2/28/2025 17:15																								0.03
2/28/2025 17:30																								0.00
2/28/2025 17:45																								0.00
2/28/2025 18:00																								0.00
2/28/2025 18:15																								0.00
2/28/2025 18:30																								0.00
2/28/2025 18:45																								0.00
2/28/2025 19:00																								0.07
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Flare Sulphur Emissions

** Data reported below is ONLY covering the times the flares were actively flaring process gasses*

**The Flare Gas compositions are estimated based on the heat and material balance, and lab analysis of flare header samples and unit operations*

= Flare Not Active This Event

Historian Data / Calculated Data

	Flare Header Pressure	Flare Gas Compressor Spillback	Flare Flow Meter			36inch Pilots			36inch Steam OP	24inch Pilots		24inch Steam	Ambient Temperature	Water Vapour /Partial Pressure	Water	Hydrogen Sulphide	Sulphur Dioxide	Hydrogen	Oxygen	Nitrogen
	20_PI947	03PC105	14_FR631	14_FI631	14_MI631	98_TI401	98_TI401	98_TI401	98_FC40	98_TI402	98_TI402	98_FC40	14_TI1006							
	PSIG	%	KSCFH	KLB/HR	LB/LB-MOL	DEGF	DEGF	DEGF	%	DEGF	DEGF	%	DEGF	PSIA	Mol %	mol%	mol%	mol %	mol %	mol %
3/21/2025 13:15	0.73	100.00	52.65	5.88	37.57	752.53	705.93	755.94	-6.90	896.66	1166.59	-6.90	43.79	0.14	0.91	0.12	0.00	61.48	0.00	2.21
3/21/2025 13:30	0.71	100.00	61.71	5.92	36.30	751.53	706.29	751.52	-6.90	906.97	1149.15	-6.90	44.38	0.14	0.93	0.12	0.00	61.47	0.00	2.21
3/21/2025 13:45	0.74	100.00	56.74	6.06	36.46	752.51	707.89	749.44	-6.90	910.41	1151.27	-6.90	44.33	0.14	0.93	0.12	0.00	61.47	0.00	2.21
3/21/2025 14:00	0.80	100.00	53.75	5.90	38.75	755.22	706.63	754.27	-6.90	902.00	1156.13	-6.90	43.23	0.14	0.89	0.12	0.00	61.50	0.00	2.21
3/21/2025 14:15	0.78	100.00	50.13	6.39	37.92	756.62	711.48	749.95	-6.90	910.19	1151.03	-6.90	43.19	0.14	0.89	0.12	0.00	61.50	0.00	2.21
3/21/2025 14:30	0.71	100.00	63.47	5.92	37.51	759.28	710.75	753.55	-6.90	898.51	1167.57	-6.90	43.48	0.14	0.90	0.12	0.00	61.49	0.00	2.21
3/21/2025 14:45	0.71	100.00	67.79	5.79	37.37	761.58	710.80	753.77	-6.90	899.51	1162.07	-6.90	44.02	0.14	0.92	0.12	0.00	61.48	0.00	2.21
3/21/2025 15:00	0.70	100.00	63.83	5.74	38.64	757.23	706.38	748.97	-6.90	888.49	1172.04	-6.90	45.71	0.15	0.98	0.12	0.00	61.44	0.00	2.21
3/21/2025 15:15	0.72	100.00	51.22	5.80	40.48	754.14	717.74	738.35	-6.90	879.52	1168.84	-6.90	45.98	0.15	0.99	0.12	0.00	61.44	0.00	2.21
3/21/2025 15:30	0.74	100.00	51.26	6.37	42.34	757.82	725.68	734.13	-6.90	883.26	1162.07	-6.90	46.31	0.15	1.00	0.12	0.00	61.43	0.00	2.21
3/21/2025 15:45	0.77	100.00	55.08	6.26	43.26	754.70	726.05	733.80	-6.90	874.57	1172.74	-6.90	48.24	0.17	1.08	0.12	0.00	61.38	0.00	2.21
3/21/2025 16:00	0.75	100.00	55.57	6.54	42.76	758.26	718.00	748.53	-6.90	902.87	1146.92	-6.90	47.22	0.16	1.04	0.11	0.00	51.38	0.00	0.80

Flare Gas Composition (continued) / Property Calculations / ZTOF

	Carbon Monoxide	Carbon Dioxide	Methane	Ethane	Propane	Propylene	i-Butane	n-Butane	Butylene	i-Pentane	n-Pentane	n-Hexane and C6+	Flare Gas Lower Flamibility Limit	Net Heating Value	Molecular Weight	NFVvg-LFL	Calc Net Heating Value Limit	Maximum Velocity	ZTOF Stage Estimate	ZTOF Flow Estimate	ZTOF Flow Estimate	ZTOF Steam Flow Estimate	ZTOF Steam Flow Estimate	Net Heating Value	Actual Velocity	SO2 Emissions
													LFLvg	NHVvg			NHVcz-limit		1					NHVcz		
	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %		BTU/SCF	lb/lbmol		BTU/SCF	ft/s		lb/hr	SCFH	lb/hr	SCFH	BTU/SCF	ft/s	kg/period
3/21/2025 13:15	0.00	0.61	27.96	1.17	1.08	0.00	0.99	0.86	0.00	0.70	0.51	1.43	0.04	1190.50	10.81	48.01	340.87	400.00	1.00	4529	158971	4193	88326	767	0.07	3.55
3/21/2025 13:30	0.00	0.61	27.95	1.17	1.08	0.00	0.99	0.86	0.00	0.70	0.51	1.43	0.04	1190.24	10.82	48.01	340.87	400.00	1.00	4529	158947	4193	88326	767	0.07	3.55
3/21/2025 13:45	0.00	0.61	27.95	1.17	1.08	0.00	0.99	0.86	0.00	0.70	0.51	1.43	0.04	1190.28	10.81	48.01	340.87	400.00	1.00	4529	158951	4193	88326	767	0.07	3.55
3/21/2025 14:00	0.00	0.61	27.96	1.17	1.08	0.00	0.99	0.86	0.00	0.70	0.51	1.43	0.04	1190.78	10.81	48.01	340.87	400.00	1.00	4529	158997	4193	88326	767	0.07	3.55
3/21/2025 14:15	0.00	0.61	27.96	1.17	1.08	0.00	0.99	0.86	0.00	0.70	0.51	1.43	0.04	1190.78	10.81	48.01	340.87	400.00	1.00	4529	158997	4193	88326	767	0.07	3.55
3/21/2025 14:30	0.00	0.61	27.96	1.17	1.08	0.00	0.99	0.86	0.00	0.70	0.51	1.43	0.04	1190.61	10.81	48.01	340.87	400.00	1.00	4529	158982	4193	88326	767	0.07	3.55
3/21/2025 14:45	0.00	0.61	27.95	1.17	1.08	0.00	0.99	0.86	0.00	0.70	0.51	1.43	0.04	1190.39	10.81	48.01	340.87	400.00	1.00	4529	158961	4193	88326	767	0.07	3.55
3/21/2025 15:00	0.00	0.61	27.94	1.17	1.08	0.00	0.98	0.86	0.00	0.70	0.51	1.42	0.04	1189.66	10.82	48.01	340.87	400.00	1.00	4529	158893	4193	88326	766	0.07	3.54
3/21/2025 15:15	0.00	0.61	27.93	1.17	1.08	0.00	0.98	0.86	0.00	0.70	0.51	1.42	0.04	1189.55	10.82	48.01	340.87	400.00	1.00	4529	158883	4193	88326	766	0.07	3.54
3/21/2025 15:30	0.00	0.61	27.93	1.17	1.08	0.00	0.98	0.86	0.00	0.70	0.51	1.42	0.04	1189.42	10.82	48.01	340.87	400.00	1.00	4529	158871	4193	88326	766	0.07	3.54
3/21/2025 15:45	0.00	0.61	27.91	1.16	1.08	0.00	0.98	0.86	0.00	0.70	0.51	1.42	0.04	1188.55	10.83	48.01	340.87	400.00	1.00	4529	158790	4193	88326	765	0.07	3.54
3/21/2025 16:00	0.00	0.54	35.91	2.71	2.45	0.00	1.47	1.04	0.00	0.64	0.50	1.43	0.04	1212.26	12.89	47.83	339.58	400.00	1.00	4529	133385	4193	88326	731	0.06	2.81

36Inch Flare / 24Inch Flare / Pit Flare

	36inch Flare Active Estimate	36inch Flow Estimate	36inch Flow Estimate	36inch Steam Flow Estimate	36inch Steam Flow Estimate	Net Heating Value	Actual Velocity	SO2 Emissions	24inch Flare Active Estimate	24inch Flow Estimate	24inch Flow Estimate	24inch Steam Flow Estimate	24inch Steam Flow Estimate	Net Heating Value	Actual Velocity	SO2 Emissions	Pit Flare Active Estimate	Pit Flare Scenario	Pit Flow Estimate	Pit Flow Estimate	Net Heating Value	Actual Velocity	SO2 Emissions	Total SO2 Emissions
	2.8					NHVcz			3								5.5							
		lb/hr	SCFH	lb/hr	SCFH	BTU/SCF	ft/s	kg/period		lb/hr	SCFH	lb/hr	SCFH	BTU/SCF	ft/s	kg/period			lb/hr	SCFH	BTU/SCF	ft/s	kg/period	kg/period
3/21/2025 13:15	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								3.55
3/21/2025 13:30	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								3.55
3/21/2025 13:45	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								3.55
3/21/2025 14:00	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								3.55
3/21/2025 14:15	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								3.55
3/21/2025 14:30	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								3.55
3/21/2025 14:45	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								3.55
3/21/2025 15:00	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								3.54
3/21/2025 15:15	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								3.54
3/21/2025 15:30	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								3.54
3/21/2025 15:45	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								3.54
3/21/2025 16:00	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								2.81

Flare Sulphur Emissions

**** Data reported below is ONLY covering the times the flares were actively flaring process gasses***

****The Flare Gas compositions are estimated based on the heat and material balance, and lab analysis of flare header samples and unit operations***

[grey] = Flare Not Active This Event

Historian Data / Calculated Data (Flare Gas Composition, Property Calculations)

	Flare Header Pressure	Flare Gas Compressor Spillback	Flare Flow Meter			36inch Pilots			36inch Steam OP	24inch Pilots		24inch Steam	Ambient Temperature	Water Vapour /Partial Pressure	Water	Hydrogen Sulphide	Sulphur Dioxide	Hydrogen	Oxygen	Nitrogen	Carbon Monoxide	Carbon Dioxide	Methane	Ethane	Propane	Propylene	i-Butane	n-Butane	Butylene	i-Pentane	n-Pentane	n-Hexane and C6+	Flare Gas Lower Flamibility Limit	Net Heating Value	Molecular Weight	NFVvg-LFL	Calc Net Heating Value Limit
	20_PI947	03PC105(	14_FR631	14_FI631	14_MI631	98_TI401	98_TI401	98_TI401	98_FC40	98_TI402	98_TI402	98_FC40	14_TI1006																				LFLvg	NHVvg			NHVcz-limit
	PSIG	%	KSCFH	KLB/HR	LB/LB-MOL	DEGF	DEGF	DEGF	%	DEGF	DEGF	%	DEGF	PSIA	Mol %	mol%	mol%	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %		BTU/SCF	lb/lbmol		BTU/SCF
3/23/2025 10:00	1.32	100.00	45.09	5.64	45.70	693.93	766.68	734.50	-5.00	1050.88	1138.37	-5.00	33.52	0.09	0.59	0.50	0.00	44.49	0.00	10.58	0.00	0.73	34.08	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.65	14.75	47.76	339.11
3/23/2025 10:15	1.33	100.00	43.93	6.91	45.96	729.91	749.87	735.61	-5.00	1038.33	1146.37	-5.00	33.98	0.10	0.60	0.50	0.00	44.48	0.00	10.58	0.00	0.73	34.08	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.53	14.75	47.76	339.11
3/23/2025 10:30	1.33	100.00	54.14	6.33	46.82	727.31	743.06	740.45	-5.00	1036.73	1146.57	-5.00	34.69	0.10	0.61	0.50	0.00	44.48	0.00	10.57	0.00	0.73	34.07	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.35	14.75	47.76	339.11
3/23/2025 10:45	1.33	100.00	39.76	5.79	45.26	758.65	736.33	703.47	-5.00	1008.21	1142.43	-5.00	35.97	0.10	0.65	0.50	0.00	44.46	0.00	10.57	0.00	0.73	34.06	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.00	14.75	47.76	339.11
3/23/2025 11:00	1.35	100.00	50.29	6.80	46.04	771.66	750.53	654.17	-5.00	1008.89	1144.02	-5.00	36.52	0.11	0.66	0.50	0.00	44.46	0.00	10.57	0.00	0.73	34.06	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.86	14.75	47.76	339.11
3/23/2025 11:15	1.36	100.00	53.92	6.61	47.54	769.53	752.80	670.89	-5.00	1000.41	1142.78	-5.00	36.66	0.11	0.66	0.50	0.00	44.46	0.00	10.57	0.00	0.73	34.06	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.82	14.75	47.76	339.11
3/23/2025 11:30	1.37	100.00	69.40	6.33	46.27	770.85	754.76	655.71	-5.00	1000.29	1126.23	-5.00	36.97	0.11	0.67	0.50	0.00	44.45	0.00	10.57	0.00	0.73	34.05	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.73	14.75	47.76	339.11
3/23/2025 11:45	1.37	100.00	63.49	5.75	46.24	765.60	740.85	693.65	-5.00	994.86	1135.15	-5.00	36.58	0.11	0.66	0.50	0.00	44.46	0.00	10.57	0.00	0.73	34.06	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.85	14.75	47.76	339.11
3/23/2025 12:00	1.37	100.00	32.01	5.67	46.19	766.78	743.01	676.76	-5.00	989.36	1126.03	-5.00	36.62	0.11	0.66	0.50	0.00	44.46	0.00	10.57	0.00	0.73	34.06	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.84	14.75	47.76	339.11
3/23/2025 12:15	1.38	100.00	48.71	5.62	46.22	767.22	737.18	682.50	-5.00	983.60	1127.82	-5.00	37.44	0.11	0.68	0.50	0.00	44.45	0.00	10.57	0.00	0.73	34.05	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.60	14.75	47.76	339.11
3/23/2025 12:30	1.38	100.00	67.51	6.21	45.68	769.83	743.85	673.30	-5.00	985.56	1132.44	-5.00	37.42	0.11	0.68	0.50	0.00	44.45	0.00	10.57	0.00	0.73	34.05	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.61	14.75	47.76	339.11
3/23/2025 12:45	1.38	100.00	36.38	6.13	45.81	766.59	752.48	666.40	-5.00	1000.84	1146.14	-5.00	36.64	0.11	0.66	0.50	0.00	44.46	0.00	10.57	0.00	0.73	34.06	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.84	14.75	47.76	339.11
3/23/2025 13:00	1.39	100.00	29.69	5.34	46.38	762.59	744.32	702.33	-5.00	995.76	1167.68	-5.00	36.29	0.10	0.65	0.50	0.00	44.46	0.00	10.57	0.00	0.73	34.06	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.93	14.75	47.76	339.11
3/23/2025 13:15	1.37	100.00	55.25	5.82	46.04	767.62	744.52	707.54	-5.00	983.14	1163.43	-5.00	35.51	0.10	0.63	0.50	0.00	44.47	0.00	10.57	0.00	0.73	34.07	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.15	14.75	47.76	339.11
3/23/2025 13:30	1.37	100.00	34.12	4.85	45.37	769.20	741.73	719.98	-5.00	978.13	1213.41	-5.00	35.36	0.10	0.63	0.50	0.00	44.47	0.00	10.57	0.00	0.73	34.07	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.19	14.75	47.76	339.11
3/23/2025 13:45	1.38	100.00	56.35	6.49	46.71	769.41	738.31	727.55	-5.00	972.22	1204.10	-5.00	34.81	0.10	0.62	0.50	0.00	44.48	0.00	10.57	0.00	0.73	34.07	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.33	14.75	47.76	339.11
3/23/2025 14:00	1.40	100.00	59.76	7.00	46.35	769.39	743.22	728.65	-5.00	968.01	1200.13	-5.00	33.63	0.09	0.59	0.50	0.00	44.49	0.00	10.58	0.00	0.73	34.08	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.66	14.75	47.76	339.11
3/23/2025 14:15	1.41	100.00	63.35	6.80	46.57	770.17	741.08	729.18	-5.00	969.76	1217.99	-5.00	33.39	0.09	0.58	0.50	0.00	44.49	0.00	10.58	0.00	0.73	34.09	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.72	14.75	47.76	339.11
3/23/2025 14:30	1.42	100.00	44.24	6.66	46.96	771.29	742.94	726.37	-5.00	977.25	1211.59	-5.00	33.48	0.09	0.58	0.50	0.00	44.49	0.00	10.58	0.00	0.73	34.08	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.70	14.75	47.76	339.11
3/23/2025 14:45	1.38	100.00	64.08	6.59	44.92	769.34	741.02	728.81	-5.00	981.90	1207.98	-5.00	34.20	0.10	0.60	0.50	0.00	44.48	0.00	10.57	0.00	0.73	34.08	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.50	14.75	47.76	339.11
3/23/2025 15:00	1.37	100.00	37.77	6.05	45.61	771.68	746.32	725.91	-5.00	966.69	1217.99	-5.00	33.95	0.10	0.59	0.50	0.00	44.49	0.00	10.58	0.00	0.73	34.08	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.56	14.75	47.76	339.11
3/23/2025 15:15	1.39	100.00	69.28	6.76	46.58	776.02	750.89	718.76	-5.00	963.02	1256.66	-5.00	33.04	0.09	0.57	0.50	0.00	44.50	0.00	10.58	0.00	0.73	34.09	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.80	14.75	47.76	339.11
3/23/2025 15:30	1.40	100.00	46.41	6.10	46.83	781.26	753.62	711.29	-5.00	954.06	1262.42	-5.00	32.79	0.09	0.57	0.50	0.00	44.50	0.00	10.58	0.00	0.73	34.09	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.87	14.75	47.76	339.11
3/23/2025 15:45	1.41	100.00	57.34	6.08	45.39	774.63	757.23	713.79	-5.00	947.58	1261.42	-5.00	32.33	0.09	0.56	0.50	0.00	44.50	0.00	10.58	0.00	0.73	34.09	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.98	14.75	47.76	339.11
3/23/2025 16:00	1.41	100.00	51.81	6.18	46.82	773.75	762.76	711.03	-5.00	941.41	1260.47	-5.00	32.15	0.09	0.55	0.50	0.00	44.51	0.00	10.58	0.00	0.73	34.09	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1090.03	14.75	47.76	339.11
3/23/2025 16:15	1.40	100.00	59.37	6.31	44.89	779.98	765.05	699.22	-5.00	941.23	1265.53	-5.00	31.83	0.09	0.54	0.50	0.00	44.51	0.00	10.58	0.00	0.73	34.10	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1090.10	14.75	47.76	339.11
3/23/2025 16:30	1.40	100.00	56.98	6.59	45.16	783.44	771.48	690.66	-5.00	937.33	1298.11	-5.00	31.34	0.09	0.53	0.50	0.00	44.51	0.00	10.58	0.00	0.73	34.10	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1090.22	14.75	47.76	339.11
3/23/2025 16:45	1.40	100.00	70.94	8.60	44.77	782.60	772.05	686.38	-5.00	939.64	1288.91	-5.00	30.97	0.08	0.53	0.50	0.00	44.52	0.00	10.58	0.00	0.73	34.10	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1090.30	14.75	47.76	339.11
3/23/2025 17:00	1.40	100.00	60.26	6.32	44.68	782.57	776.68	679.80	-5.00	934.22	1296.65	-5.00	30.89	0.08	0.52	0.50	0.00	44.52	0.00	10.58	0.00	0.73	34.10	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1090.32	14.75	47.76	339.11
3/23/2025 17:15	1.41	100.00	44.95	5.11	45.72	782.46	774.96	670.08	-5.00	933.78	1271.79	-5.00	30.79	0.08	0.52	0.50	0.00	44.52	0.00	10.58	0.00	0.73	34.10	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1090.35	14.75	47.76	339.11
3/23/2025 17:30	1.41	100.00	44.68	5.96	44.76	779.86	781.57	666.02	-5.00	934.78	1284.45	-5.00	30.88	0.08	0.52	0.50	0.00	44.52	0.00	10.58	0.00	0.73	34.10	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1090.33	14.75	47.76	339.11
3/23/2025 17:45	1.42	100.00	38.58	6.25	44.80	779.71	783.01	658.48	-5.00	930.74	1271.20	-5.00	30.99	0.08	0.53	0.50	0.00	44.52	0.00	10.58	0.00	0.73	34.10	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1090.31	14.75	47.76	339.11
3/23/2025 18:00	1.51	100.00	57.93	8.77	52.63	778.89	779.15	653.46	-5.00	932.88	1250.22	-5.00	31.09	0.09	0.53	0.50	0.00	44.52	0.00	10.58	0.00	0.73	34.10	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1090.32	14.75	47.76	339.11
3/23/2025 18:15	1.50	100.00	52.45	8.12	50.23	778.04	774.85	651.40	-5.00	932.45	1214.90	-5.00	31.19	0.09	0.53	0.50	0.00	44.52	0.00	10.58	0.00	0.73	34.10	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1090.29	14.75	47.76	339.11
3/23/2025 18:30	1.46	100.00	61.56	6.65	46.10	777.94	767.53	650.72	-5.00	947.72	1165.52	-5.00	31.31	0.09	0.53	0.50	0.00	44.51	0.00	10.58	0.00	0.73	34.10	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1090.25	14.75	47.76	339.11
3/23/2025 18:45	1.45	100.00	53.51	5.56	44.78	776.36	778.57	641.86	-5.00	935.34	1202.56	-5.00	31.39	0.09	0.53	0.50	0.00	44.51	0.00	10.58	0.00	0.73	34.10	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1090.23	14.75	47.76	339.11
3/23/2025 19:00	1.44	100.00	45.77	6.33	42.45	775.99	751.34	653.82	-5.00	955.65	1090.55	-5.00	31.45	0.09	0.54	0.50	0.00	44.51	0.00	10.58	0.00	0.73	34.10	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1090.20	14.75	47.76	339.11
3/23/2025 19:15	1.44	100.00	51.87	5.33	43.67	775.55	759.10	647.69	-5.00	956.50	1109.51	-5.00	31.57	0.09	0.54	0.50	0.00	44.51	0.00	10.58	0.00	0.73	34.10	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1090.18	14.75	47.76	339.11
3/23/2025 19:30	1.43	100.00	27.65	4.75	43.24	774.77	762.69	647.23	-5.00	950.83	1115.76	-5.00	31.69	0.09	0.54	0.50	0.00	44.51	0.00	10.58	0.00	0.73	34.10	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1090.15	14.75	47.76	339.11
3/23/2025 19:45	1.43	100.00	32.51	5.42	42.43	775.64	747.70	652.36	-5.00	970.57	1079.73	-5.00	31.73	0.09	0.54	0.50	0.00	44.51	0.00	10.58	0.00	0.73	34.10	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1090.14	14.75	47.76	339.11
3/23/2025 20:00	1.44	100.00	50.27	4.96	43.40	772.65	744.79	648.77	-5.00	966.30	1052.31	-5.00	31.77	0.09	0.54	0.50	0.00	44.51	0.00	10.58	0.00	0.73	34.10	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1090.13	14.75	47.76	339.11
3/23/2025 20:15	1.45	100.00	40.39	5.07	43.81	769.73	755.11	641.23	-5.00	961.40	1074.44	-5.00	32.03	0.09	0.55	0.50	0.00	44.51	0.00	10.58	0.00	0.73	34.10	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1090.07	14.75	47.76	339.11
3/23/2025 20:30	1.45	100.00	56.27	6.86	42.77	768.73	763.15	635.54	-5.00	945.15	1098.39	-5.00	32.19	0.09	0.55	0.50	0.00	44.51	0.00	10.58	0.00	0.73	34.10	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1090.04	14.75	47.76	339.11
3/23/2025 20:45	1.44	100.00	40.36	6.02	42.52	768.61	764.30	635.03	-5.00	950.70	1103.94	-5.00	32.33	0.09	0.55	0.50	0.00	44.50	0.00	10.58	0.00	0.73	34.09	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1090.00	14.75	47.76	339.11
3/23/2025 21:00	1.47	100.00	47.10	4.90	43.02	769.02	753.85	638.41	-5.00	953.12	1071.06	-5.00	32.55	0.09	0.56	0.50	0.00	44.50	0.00	10.58	0.00	0.73	34.09	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.95	14.75	47.76	339.11
3/23/2025 21:15	1.52	100.00	56.86	6.98	46.09	765.84	770.67	628.31	-5.00	946.76	1116.34	-5.00	32.78	0.09	0.56	0.50	0.00	44.50	0.00	10.58	0.00	0.73	34.09	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.91	14.75	47.76	339.11
3/23/2025 21:30	1.51	100.00	49.39	6.43	46.40	763.75	775.23	621.75	-5.00	936.47	1127.22	-5.00	32.96	0.09	0.57	0.50	0.00	44.50	0.00	10.58	0.00	0.73	34.09	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.87	14.75	47.76	339.11
3/23/2025 21:45	1.52	100.00	33.99	5.34	46.99	766.54	758.99	629.31	-5.00	954.72	1061.98	-5.00	33.10	0.09	0.57	0.50	0.00	44.50	0.00	10.58	0.00	0.73	34.09	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.84	14.75	47.76	339.11
3/23/2025 22:00	1.53	100.00	57.08	7.43	45.39	767.65	742.64	632.68	-5.00	965.37	1039.38	-5.00	33.24	0.09	0.57	0.50	0.00	44.50	0.00	10.58	0.00	0.73	34.09	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.81	14.75	47.76	339.11
3/23/2025 22:15	1.53	100.00	66.04	7.55	46.42	768.86	737.99	638.88	-5.00	978.32	1037.61	-5.00	33.44	0.09	0.58	0.50	0.00	44.49	0.00	10.58	0.00	0.73	34.09	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.76	14.75	47.76	339.11
3/23/2025 22:30	1.53	100.00	58.48	6.17	47.63	771.12	726.53	648.30	-5.00	990.94	1031.24	-5.00	33.71	0.09	0.58	0.50	0.00	44.49	0.00	10.58	0.00	0.73	34.08	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.69	14.75	47.76	339.11
3/23/2025 22:45	1.53	100.00	51.06	5.89	45.73	768.36	744.65	635.41	-5.00	977.44	1051.66	-5.00	34.20	0.10	0.59	0.50	0.00	44.49	0.00	10.58	0.00	0.73	34.08	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.56	14.75	47.76	339.11
3/23/2025 23:00	1.52	100.00	56.89	7.05	46.40	769.07	752.12	625.37	-5.00	959.66	1077.42	-5.00	34.51	0.10	0.60	0.50	0.00	44.48	0.00	10.57	0.00	0.73	34.08	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.48	14.75	47.76	339.11
3/23/2025 23:15	1.52	100.00	55.38	5.90	45.91	767.43	780.57	620.56	-5.00	948.17	1213.25	-5.00	34.79	0.10	0.61	0.50	0.00	44.48	0.00	10.57	0.00	0.73	34.08	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.40	14.75	47.76	339.11
3/23/2025 23:30	1.52	100.00	60.31	6.70	45.73	767.51	793.51	620.17	-5.00	934.16	1292.34	-5.00	34.52	0.10	0.60	0.50	0.00	44.48	0.00	10.57	0.00	0.73	34.08	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.48	14.75	47.76	339.11
3/23/2025 23:45	1.51	100.00	57.67	6.63	45.31	762.12	793.51	629.56	-5.00	935.42	1330.53	-5.00	33.38	0.09	0.58	0.50	0.00	44.49	0.00	10.58	0.00	0.73	34.09	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.76	14.75	47.76	339.11
3/24/2025 0:00	1.51	100.00	51.24	6.89	44.73	755.69	798.79	627.36	-5.00	939.16	1383.86	-5.00	33.38	0.09	0.58	0.50	0.00	44.49	0.00	10.58	0.00	0.73	34.09	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.76	14.75	47.76	339.11
3/24/2025 0:15	1.51	100.00	64.99	6.96	45.69	761.41	785.47	652.47	-5.00	925.87	1299.85	-5.00	33.13	0.09	0.57	0.50	0.00	44.50	0.00	10.58	0.00	0.73	34.09	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.82	14.75	47.76	339.11
3/24/2025 0:30	1.51	100.00	72.97	7.14	44.62	767.90	771.63	647.47	-5.00	927.58	1194.63	-5.00	32.98	0.09	0.57	0.50	0.00	44.50	0.00	10.58	0.00	0.73	34.09	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.86	14.75	47.76	339.11
3/24/2025 0:45	1.50	100.00	45.97	5.43	44.72	772.12	770.87	669.61	-5.00	941.37	1198.25	-5.00	33.19	0.09	0.57	0.50	0.00	44.50	0.00	10.58	0.00	0.73	34.09	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.81	14.75	47.76	339.11
3/24/2025 1:00	1.50	100.00	58.54	7.04	44.82	769.25	764.78	666.20	-5.00	932.71	1159.54	-5.00	33.10	0.09	0.57	0.50	0.00	44.50	0.00	10.58	0.00	0.73	34.09	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.83	14.75	47.76	339.11
3/24/2025 1:15	1.50	100.00	51.41	7.32	43.21	770.85	767.28	650.83	-5.00	939.50	1157.93	-5.00	33.12	0.09	0.57	0.50	0.00	44.50	0.00	10.58	0.00	0.73	34.09	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.82	14.75	47.76	339.11
3/24/2025 1:30	1.51	100.00	40.82	5.60	46.04	773.46	773.32	637.19	-5.00	936.16	1163.04	-5.00	33.34	0.09	0.57	0.50	0.00	44.49	0.00	10.58	0.00	0.73	34.09	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.78	14.75	47.76	339.11
3/24/2025 1:45	1.55	100.00	54.83	6.05	45.43	771.60	776.80	628.48	-5.00	951.48	1181.13	-5.00	33.39	0.09	0.57	0.50	0.00	44.49	0.00	10.58	0.00	0.73	34.09	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.78	14.75	47.76	339.11
3/24/2025 2:00	1.52	100.00	56.64	6.61	45.39	769.02	781.22	624.63	-5.00	946.85	1160.19	-5.00	33.81	0.09	0.59	0.50	0.00	44.49	0.00	10.58	0.00	0.73	34.08	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.66	14.75	47.76	339.11
3/24/2025 2:15	1.51	100.00	43.72	6.91	45.53	768.98	784.49	620.93	-5.00	950.48	1175.24	-5.00	34.16	0.10	0.59	0.50	0.00	44.49	0.00	10.58	0.00	0.73	34.08	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.56	14.75	47.76	339.11
3/24/2025 2:30	1.52	100.00	67.40	6.33	44.06	773.67	777.62	627.85	-5.00	945.77	1152.99	-5.00	34.66	0.10	0.61	0.50	0.00	44.48	0.00	10.57	0.00	0.73	34.08	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.44	14.75	47.76	339.11
3/24/2025 2:45	1.53	100.00	36.93	6.94	45.10	776.78	772.02	628.66	-5.00	963.87	1208.28	-5.00	34.85	0.10	0.61	0.50	0.00	44.48	0.00	10.57	0.00	0.73	34.07	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.39	14.75	47.76	339.11
3/24/2025 3:00	1.52	100.00	61.74	8.48	44.38	773.57	773.31	640.19	-5.00	974.12	1307.14	-5.00	35.16	0.10	0.62	0.50	0.00	44.48	0.00	10.57	0.00	0.73	34.07	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.30	14.75	47.76	339.11
3/24/2025 3:15	1.52	100.00	58.07	6.38	45.21	783.11	779.06	648.15	-5.00	949.11	1276.52	-5.00	35.32	0.10	0.62	0.50	0.00	44.47	0.00	10.57	0.00	0.73	34.07	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.26	14.75	47.76	339.11
3/24/2025 3:30	1.53	100.00	65.56	6.02	44.98	780.13	779.09	658.17	-5.00	955.66	1293.49	-5.00	35.61	0.10	0.63	0.50	0.00	44.47	0.00	10.57	0.00	0.73	34.07	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.19	14.75	47.76	339.11
3/24/2025 3:45	1.54	100.00	55.37	6.43	46.53	773.09	781.79	660.38	-5.00	916.54	1316.66	-5.00	35.85	0.10	0.63	0.50	0.00	44.47	0.00	10.57	0.00	0.73	34.07	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.13	14.75	47.76	339.11
3/24/2025 4:00	1.54	100.00	69.26	7.33	45.41	771.96	780.82	671.21	-5.00	937.50	1271.18	-5.00	36.05	0.10	0.64	0.50	0.00	44.47	0.00	10.57	0.00	0.73	34.06	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.07	14.75	47.76	339.11
3/24/2025 4:15	1.53	100.00	47.18	6.39	44.64	770.74	776.53	672.21	-5.00	941.87	1266.09	-5.00	36.12	0.10	0.64	0.50	0.00	44.47	0.00	10.57	0.00	0.73	34.06	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1089.05	14.75	47.76	339.11
3/24/2025 4:30	1.54	100.00	41.35	5.77	44.80	769.52	761.00	675.85	-5.00	937.74	1214.79	-5.00	36.34	0.11	0.65	0.50	0.00	44.46	0.00	10.57	0.00	0.73	34.06	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.99	14.75	47.76	339.11
3/24/2025 4:45	1.55	100.00	68.56	8.08	46.02	766.80	754.73	683.46	-5.00	943.13	1182.85	-5.00	36.60	0.11	0.65	0.50	0.00	44.46	0.00	10.57	0.00	0.73	34.06	2.14	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.92	14.75	47.76	339.11
3/24/2025 5:00	1.56	100.00	67.75	6.74	45.73	765.09	740.93	688.54	-5.00	947.05	1164.95	-5.00	36.77	0.11	0.66	0.50	0.00	44.46	0.00	10.57	0.00	0.73	34.06	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.88	14.75	47.76	339.11
3/24/2025 5:15	1.55	100.00	53.95	6.45	47.20	766.52	748.23	710.77	-5.00	967.89	1164.00	-5.00	36.96	0.11	0.66	0.50	0.00	44.46	0.00	10.57	0.00	0.73	34.06	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.82	14.75	47.76	339.11
3/24/2025 5:30	1.56	100.00	49.70	6.96	45.24	768.21	757.86	714.99	-5.00	980.15	1165.84	-5.00	37.31	0.11	0.67	0.50	0.00	44.45	0.00	10.57	0.00	0.73	34.05	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.72	14.75	47.76	339.11
3/24/2025 5:45	1.56	100.00	81.31	6.92	45.95	769.04	755.91	679.64	-5.00	996.96	1154.49	-5.00	37.61	0.11	0.68	0.50	0.00	44.45	0.00	10.57	0.00	0.73	34.05	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.64	14.75	47.76	339.11
3/24/2025 6:00	1.56	100.00	65.41	6.13	45.56	776.57	759.25	646.57	-5.00	1027.68	1152.93	-5.00	37.98	0.11	0.69	0.50	0.00	44.44	0.00	10.57	0.00	0.73	34.05	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.53	14.75	47.76	339.11
3/24/2025 6:15	1.56	100.00	56.27	6.39	45.37	781.38	774.60	663.10	-5.00	1044.37	1163.71	-5.00	38.37	0.11	0.70	0.50	0.00	44.44	0.00	10.56	0.00	0.73	34.04	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.42	14.76	47.76	339.11
3/24/2025 6:30	1.56	100.00	48.12	6.24	45.96	772.74	769.76	626.00	-5.00	1023.63	1146.58	-5.00	38.67	0.12	0.71	0.50	0.00	44.44	0.00	10.56	0.00	0.73	34.04	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.33	14.76	47.76	339.11
3/24/2025 6:45	1.58	100.00	57.85	6.21	46.08	742.55	799.90	654.27	-5.00	1005.82	1137.85	-5.00	39.21	0.12	0.72	0.50	0.00	44.43	0.00	10.56	0.00	0.73	34.04	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.17	14.76	47.76	339.11
3/24/2025 7:00	1.58	100.00	62.38	7.35	45.80	742.78	785.16	706.39	-5.00	975.55	1119.66	-5.00	38.90	0.12	0.71	0.50	0.00	44.43	0.00	10.56	0.00	0.73	34.04	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.27	14.76	47.76	339.11
3/24/2025 7:15	1.55	100.00	73.55	6.52	42.54	734.65	734.51	711.88	-5.00	982.82	1083.49	-5.00	39.46	0.12	0.73	0.50	0.00	44.43	0.00	10.56	0.00	0.73	34.03	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.08	14.76	47.76	339.11
3/24/2025 7:30	1.60	100.00	51.52	6.98	46.66	721.43	722.35	718.96	-5.00	966.57	1034.50	-5.00	40.78	0.13	0.77	0.50	0.00	44.41	0.00	10.56	0.00	0.72	34.02	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.46	0.81	0.04	1087.69	14.76	47.76	339.11
3/24/2025 7:45	1.60	100.00	76.46	7.19	46.01	720.73	723.29	716.99	-5.00	956.39	1026.47	-5.00	41.31	0.13	0.78	0.50	0.00	44.40	0.00	10.56	0.00	0.72	34.02	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.46	0.81	0.04	1087.52	14.76	47.76	339.11
3/24/2025 8:00	1.59	100.00	48.43	6.05	45.48	727.97	725.57	716.56	-5.00	954.58	1025.71	-5.00	41.69	0.13	0.80	0.50	0.00	44.40	0.00	10.55	0.00	0.72	34.01	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.46	0.81	0.04	1087.39	14.76	47.76	339.11
3/24/2025 8:15	1.55	100.00	39.80	4.08	44.69	732.89	727.26	715.07	-5.00	948.82	1021.83	-5.00	41.81	0.13	0.80	0.50	0.00	44.39	0.00	10.55	0.00	0.72	34.01	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.46	0.81	0.04	1087.32	14.76	47.76	339.11
3/24/2025 8:30	1.52	100.00	42.96	5.58	43.31	730.37	725.90	713.40	-5.00	944.24	1020.90	-5.00	43.20	0.14	0.85	0.50	0.00	44.37	0.00	10.55	0.00	0.72	33.99	2.13	1.83	0.00	1.53	1.29	0.00	0.97	0.46	0.81	0.04	1086.83	14.76	47.76	339.11
3/24/2025 8:45	1.72	100.00	33.53	4.36	41.58	734.42	726.38	714.56	-5.00	941.89	1021.28	-5.00	45.15	0.15	0.90	0.50	0.00	44.35	0.00	10.54	0.00	0.72	33.98	2.13	1.83	0.00	1.53	1.29	0.00	0.96	0.46	0.81	0.04	1086.24	14.76	47.76	339.11
3/24/2025 9:00	1.55	100.00	34.23	4.27	44.64	732.45	724.91	715.37	-5.00	944.09	1024.34	-5.00	45.14	0.15	0.91	0.50	0.00	44.35	0.00	10.54	0.00	0.72	33.97	2.13	1.82	0.00	1.53	1.29	0.00	0.96	0.46	0.81	0.04	1086.14	14.76	47.76	339.11
3/24/2025 9:15	1.54	100.00	47.17	5.26	43.52	739.68	725.51	715.40	-5.00	945.10	1022.72	-5.00	45.24	0.15	0.92	0.50	0.00	44.34	0.00	10.54	0.00	0.72	33.97	2.13	1.82	0.00	1.53	1.29	0.00	0.96	0.46	0.81	0.04	1086.10	14.76	47.76	339.11
3/24/2025 9:30	1.54	100.00	50.98	5.15	44.56	739.89	732.15	712.95	-5.00	944.74	1021.84	-5.00	45.78	0.15	0.93	0.50	0.00	44.34	0.00	10.54	0.00	0.72	33.97	2.13	1.82	0.00	1.53	1.29	0.00	0.96	0.46	0.81	0.04	1085.90	14.76	47.76	339.11
3/24/2025 9:45	1.56	100.00	66.49	6.15	45.05	743.20	727.55	715.23	-5.00	938.08	1022.25	-5.00	45.25	0.15	0.91	0.50	0.00	44.34	0.00	10.54	0.00	0.72	33.97	2.13	1.82	0.00	1.53	1.29	0.00	0.96	0.46	0.81	0.04	1086.11	14.76	47.76	339.11
3/24/2025 10:00	1.55	100.00	50.91	6.06	44.73	734.56	727.30	718.44	-5.00	947.24	1028.02	-5.00	45.27	0.15	0.92	0.50	0.00	44.34	0.00	10.54	0.00	0.72	33.97	2.13	1.82	0.00	1.53	1.29	0.00	0.96	0.46	0.81	0.04	1086.10	14.76	47.76	339.11
3/24/2025 10:15	1.54	100.00	48.19	5.54	44.39	739.74	724.22	717.63	-5.00	938.57	1021.85	-5.00	45.07	0.15	0.91	0.50	0.00	44.35	0.00	10.54	0.00	0.72	33.97	2.13	1.82	0.00	1.53	1.29	0.00	0.96	0.46	0.81	0.04	1086.16	14.76	47.76	339.11
3/24/2025 10:30	1.54	100.00	46.49	5.48	43.58	731.41	719.27	718.68	-5.00	938.72	1025.04	-5.00	45.43	0.15	0.92	0.50	0.00	44.34	0.00	10.54	0.00	0.72	33.97	2.13	1.82	0.00	1.53	1.29	0.00	0.96	0.46	0.81	0.04	1086.03	14.76	47.76	339.11
3/24/2025 10:45	1.53	100.00	53.41	4.78	41.76	730.79	719.37	714.23	-5.00	932.72	1022.35	-5.00	45.63	0.15	0.93	0.50	0.00	44.34	0.00	10.54	0.00	0.72	33.97	2.13	1.82	0.00	1.53	1.29	0.00	0.96	0.46	0.81	0.04	1085.94	14.76	47.76	339.11
3/24/2025 11:00	1.45	100.00	38.68	5.67	42.62	728.74	714.89	716.94	-5.00	935.00	1033.71	-5.00	45.96	0.15	0.95	0.50	0.00	44.33	0.00	10.54	0.00	0.72	33.96	2.13	1.82	0.00	1.53	1.29	0.00	0.96	0.46	0.81	0.04	1085.77	14.76	47.76	339.11
3/24/2025 11:15	1.45	100.00	35.15	4.93	44.27	731.37	718.57	715.73	-5.00	940.39	1026.83	-5.00	47.09	0.16	0.99	0.50	0.00	44.31	0.00	10.53	0.00	0.72	33.95	2.13	1.82	0.00	1.53	1.29	0.00	0.96	0.46	0.81	0.04	1085.33	14.77	47.76	339.11
3/24/2025 11:30	1.45	100.00	34.10	6.16	45.15	737.32	716.69	715.86	-5.00	930.13	999.08	-5.00	47.82	0.16	1.02	0.50	0.00	44.30	0.00	10.53	0.00	0.72	33.94	2.13	1.82	0.00	1.53	1.29	0.00	0.96	0.46	0.81	0.04	1085.03	14.77	47.76	339.11
3/24/2025 11:45	1.44	100.00	42.39	4.47	42.33	750.74	724.16	714.68	-5.00	953.90	1000.76	-5.00	47.38	0.16	1.00	0.50	0.00	44.31	0.00	10.53	0.00	0.72	33.94	2.13	1.82	0.00	1.53	1.29	0.00	0.96	0.46	0.81	0.04	1085.20	14.77	47.76	339.11
3/24/2025 12:00	1.44	100.00	48.57	4.69	42.46	753.20	726.17	715.00	-5.00	943.26	997.47	-5.00	47.16	0.16	0.99	0.50	0.00	44.31	0.00	10.53	0.00	0.72	33.95	2.13	1.82	0.00	1.53	1.29	0.00	0.96	0.46	0.81	0.04	1085.29	14.77	47.76	339.11
3/24/2025 12:15	1.44	100.00	52.69	5.33	42.30	760.56	721.46	715.04	-5.00	924.54	992.84	-5.00	48.63	0.17	1.05	0.50	0.00	44.29	0.00	10.53	0.00	0.72	33.93	2.13	1.82	0.00	1.53	1.29	0.00	0.96	0.46	0.81	0.04	1084.67	14.77	47.76	339.11
3/24/2025 12:30	1.43	100.00	39.80	4.68	42.48	759.57	733.33	706.77	-5.00	966.50	995.57	-5.00	49.13	0.17	1.07	0.50	0.00	44.28	0.00	10.53	0.00	0.72	33.92	2.13	1.82	0.00	1.53	1.29	0.00	0.96	0.46	0.81	0.04	1084.46	14.77	47.76	339.11
3/24/2025 12:45	1.43	100.00	31.64	4.12	42.53	765.86	734.41	707.17	-5.00	970.63	993.75	-5.00	46.54	0.16	0.97	0.50	0.00	44.32	0.00	10.54	0.00	0.72	33.95	2.13	1.82	0.00	1.53	1.29	0.00	0.96	0.46	0.81	0.04	1085.53	14.76	47.76	339.11
3/24/2025 13:00	1.42	100.00	46.60	5.40	41.83	760.61	737.68	717.59	-5.00	986.72	1000.04	-5.00	45.95	0.15	0.95	0.50	0.00	44.33	0.00	10.54	0.00	0.72	33.96	2.13	1.82	0.00	1.53	1.29	0.00	0.96	0.46	0.81	0.04	1085.76	14.76	47.76	339.11
3/24/2025 13:15	1.43	100.00	41.17	5.11	42.38	765.34	733.79	719.93	-5.00	973.19	1000.53	-5.00	46.95	0.16	0.98	0.50	0.00	44.31	0.00	10.53	0.00	0.72	33.95	2.13	1.82	0.00	1.53	1.29	0.00	0.96	0.46	0.81	0.04	1085.36	14.77	47.76	339.11
3/24/2025 13:30	1.42	100.00	46.46	5.03	42.60	757.32	722.29	721.56	-5.00	942.82	1001.74	-5.00	46.34	0.15	0.96	0.50	0.00	44.32	0.00	10.54	0.00	0.72	33.96	2.13	1.82	0.00	1.53	1.29	0.00	0.96	0.46	0.81	0.04	1085.60	14.76	47.76	339.11
3/24/2025 13:45	1.42	100.00	56.90	5.50	41.64	755.74	727.88	721.14	-5.00	950.11	1000.54	-5.00	45.24	0.15	0.92	0.50	0.00	44.34	0.00	10.54	0.00	0.72	33.97	2.13	1.82	0.00	1.53	1.29	0.00	0.96	0.46	0.81	0.04	1086.03	14.76	47.76	339.11
3/24/2025 14:00	1.42	100.00	46.22	4.57	42.87	768.02	727.97	724.10	-5.00	932.83	990.70	-5.00	44.46	0.14	0.90	0.50	0.00	44.35	0.00	10.54	0.00	0.72	33.98	2.13	1.83	0.00	1.53	1.29	0.00	0.96	0.46	0.81	0.04	1086.32	14.76	47.76	339.11
3/24/2025 14:15	1.41	100.00	48.06	5.15	40.66	771.53	738.86	725.01	-5.00	959.61	995.76	-5.00	44.08	0.14	0.88	0.50	0.00	44.36	0.00	10.55	0.00	0.72	33.98	2.13	1.83	0.00	1.53	1.29	0.00	0.96	0.46	0.81	0.04	1086.45	14.76	47.76	339.11
3/24/2025 14:30	1.41	100.00	31.47	4.20	43.03	760.88	720.22	727.38	-5.00	927.79	990.75	-5.00	41.26	0.13	0.79	0.50	0.00	44.40	0.00	10.55	0.00	0.72	34.01	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.46	0.81	0.04	1087.43	14.76	47.76	339.11
3/24/2025 14:45	1.45	100.00	50.58	5.61	44.00	756.15	732.08	726.29	-5.00	977.29	1013.29	-5.00	42.00	0.13	0.81	0.50	0.00	44.39	0.00	10.55	0.00	0.72	34.01	2.13	1.83	0.00	1.53	1.29	0.00	0.97	0.46	0.81	0.04	1087.20	14.76	47.76	339.11
3/24/2025 15:00	1.44	100.00	37.40	4.67	43.91	757.37	741.92	725.29	-5.00	1011.14	1027.93	-5.00	42.06	0.13	0.82	0.50	0.00	44.39	0.00	10.55	0.00	0.72	34.01	2.13	1.83	0.00	1.53	1.29	0.00	0.97	0.46	0.81	0.04	1087.18	14.76	47.76	339.11
3/24/2025 15:15	1.44	100.00	42.75	5.22	44.16	755.20	749.31	720.53	-5.00	1032.46	1010.78	-5.00	41.89	0.13	0.81	0.50	0.00	44.39	0.00	10.55	0.00	0.72	34.01	2.13	1.83	0.00	1.53	1.29	0.00	0.97	0.46	0.81	0.04	1087.24	14.76	47.76	339.11
3/24/2025 15:30	1.45	100.00	53.82	6.26	44.61	762.52	747.36	720.18	-5.00	1024.83	1019.08	-5.00	42.75	0.14	0.84	0.50	0.00	44.38	0.00	10.55	0.00	0.72	34.00	2.13	1.83	0.00	1.53	1.29	0.00	0.97	0.46	0.81	0.04	1086.94	14.76	47.76	339.11
3/24/2025 15:45	1.46	100.00	55.85	5.01	44.70	756.29	733.35	722.89	-5.00	1016.16	1046.00	-5.00	46.03	0.15	0.95	0.50	0.00	44.33	0.00	10.54	0.00	0.72	33.96	2.13	1.82	0.00	1.53	1.29	0.00	0.96	0.46	0.81	0.04	1085.74	14.76	47.76	339.11
3/24/2025 16:00	1.49	100.00	45.45	5.73	45.71	759.49	751.03	710.60	-5.00	1015.33	1035.93	-5.00	44.70	0.15	0.90	0.50	0.00	44.35	0.00	10.54	0.00	0.72	33.98	2.13	1.83	0.00	1.53	1.29	0.00	0.96	0.46	0.81	0.04	1086.27	14.76	47.76	339.11
3/24/2025 16:15	1.50	100.00	49.86	5.40	45.08	758.13	753.59	706.34	-5.00	1018.57	1023.47	-5.00	43.83	0.14	0.87	0.50	0.00	44.36	0.00	10.55	0.00	0.72	33.99	2.13	1.83	0.00	1.53	1.29	0.00	0.97	0.46	0.81	0.04	1086.59	14.76	47.76	339.11
3/24/2025 16:30	1.48	100.00	47.66	6.39	44.18	758.48	762.82	706.91	-5.00	1016.41	1014.74	-5.00	43.81	0.14	0.87	0.50	0.00	44.36	0.00	10.55	0.00	0.72	33.99	2.13	1.83	0.00	1.53	1.29	0.00	0.97	0.46	0.81	0.04	1086.59	14.76	47.76	339.11
3/24/2025 16:45	1.48	100.00	48.36	5.69	44.35	753.87	745.30	707.64	-5.00	1005.22	1012.89	-5.00	43.92	0.14	0.87	0.50	0.00	44.36	0.00	10.55	0.00	0.72	33.99	2.13	1.83	0.00	1.53	1.29	0.00	0.97	0.46	0.81	0.04	1086.55	14.76	47.76	339.11
3/24/2025 17:00	1.49	100.00	43.24	5.64	43.85	757.84	749.86	702.82	-5.00	1020.47	1020.30	-5.00	43.57	0.14	0.86	0.50	0.00	44.37	0.00	10.55	0.00	0.72	33.99	2.13	1.83	0.00	1.53	1.29	0.00	0.97	0.46	0.81	0.04	1086.68	14.76	47.76	339.11
3/24/2025 17:15	1.54	100.00	40.77	6.87	45.94	759.02	763.99	702.28	-5.00	1017.15	1010.76	-5.00	43.63	0.14	0.86	0.50	0.00	44.37	0.00	10.55	0.00	0.72	33.99	2.13	1.83	0.00	1.53	1.29	0.00	0.97	0.46	0.81	0.04	1086.69	14.76	47.76	339.11
3/24/2025 17:30	1.54	100.00	48.12	6.86	46.75	752.89	758.52	701.49	-5.00	1032.65	1009.67	-5.00	43.73	0.14	0.86	0.50	0.00	44.37	0.00	10.55	0.00	0.72	33.99	2.13	1.83	0.00	1.53	1.29	0.00	0.97	0.46	0.81	0.04	1086.65	14.76	47.76	339.11
3/24/2025 17:45	1.51	100.00	51.71	6.29	46.19	755.22	768.06	701.83	-5.00	1040.06	1005.90	-5.00	43.38	0.14	0.85	0.50	0.00	44.37	0.00	10.55	0.00	0.72	33.99	2.13	1.83	0.00	1.53	1.29	0.00	0.97	0.46	0.81	0.04	1086.76	14.76	47.76	339.11
3/24/2025 18:00	1.51	100.00	33.12	5.27	46.30	761.37	768.77	705.33	-5.00	1010.14	1011.21	-5.00	42.96	0.14	0.84	0.50	0.00	44.38	0.00	10.55	0.00	0.72	34.00	2.13	1.83	0.00	1.53	1.29	0.00	0.97	0.46	0.81	0.04	1086.90	14.76	47.76	339.11
3/24/2025 18:15	1.49	100.00	39.40	5.89	46.21	761.84	765.87	709.63	-5.00	1023.04	1014.34	-5.00	41.16	0.13	0.78	0.50	0.00	44.40	0.00	10.56	0.00	0.72	34.02	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.46	0.81	0.04	1087.51	14.76	47.76	339.11
3/24/2025 18:30	1.49	100.00	54.55	6.76	46.24	758.94	758.03	712.48	-5.00	1034.52	1010.84	-5.00	40.38	0.12	0.76	0.50	0.00	44.41	0.00	10.56	0.00	0.72	34.02	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.46	0.81	0.04	1087.76	14.76	47.76	339.11
3/24/2025 18:45	1.47	100.00	45.30	5.86	45.64	759.96	745.48	716.08	-5.00	1010.42	1013.55	-5.00	41.17	0.13	0.79	0.50	0.00	44.40	0.00	10.56	0.00	0.72	34.02	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.46	0.81	0.04	1087.49	14.76	47.76	339.11
3/24/2025 19:00	1.47	100.00	27.77	5.57	46.13	762.33	741.77	720.89	-5.00	1026.39	1021.12	-5.00	41.36	0.13	0.79	0.50	0.00	44.40	0.00	10.55	0.00	0.72	34.01	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.46	0.81	0.04	1087.43	14.76	47.76	339.11
3/24/2025 19:15	1.55	100.00	66.40	7.64	52.96	760.14	737.33	721.17	-5.00	1015.91	1026.02	-5.00	41.80	0.13	0.80	0.50	0.00	44.39	0.00	10.55	0.00	0.72	34.01	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.46	0.81	0.04	1087.33	14.76	47.76	339.11
3/24/2025 19:30	1.60	100.00	61.30	7.10	50.69	760.53	727.31	725.50	-5.00	1016.85	1037.90	-5.00	41.67	0.13	0.80	0.50	0.00	44.40	0.00	10.55	0.00	0.72	34.01	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.46	0.81	0.04	1087.40	14.76	47.76	339.11
3/24/2025 19:45	1.52	100.00	48.56	5.78	44.46	761.94	731.70	723.29	-5.00	1030.36	1042.81	-5.00	41.47	0.13	0.79	0.50	0.00	44.40	0.00	10.55	0.00	0.72	34.01	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.46	0.81	0.04	1087.42	14.76	47.76	339.11
3/24/2025 20:00	1.48	100.00	45.66	5.05	45.69	758.67	740.79	719.62	-5.00	1042.30	1022.63	-5.00	41.64	0.13	0.80	0.50	0.00	44.40	0.00	10.55	0.00	0.72	34.01	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.46	0.81	0.04	1087.34	14.76	47.76	339.11
3/24/2025 20:15	1.45	100.00	41.63	6.06	44.79	756.84	739.86	717.39	-5.00	1060.84	1018.42	-5.00	41.43	0.13	0.79	0.50	0.00	44.40	0.00	10.55	0.00	0.72	34.01	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.46	0.81	0.04	1087.40	14.76	47.76	339.11
3/24/2025 20:30	1.45	100.00	47.46	5.38	44.65	756.16	749.27	713.29	-5.00	1051.65	1013.98	-5.00	40.97	0.13	0.78	0.50	0.00	44.40	0.00	10.56	0.00	0.72	34.02	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.46	0.81	0.04	1087.55	14.76	47.76	339.11
3/24/2025 20:45	1.44	100.00	43.89	5.32	45.46	759.51	758.43	714.47	-5.00	1044.62	1014.81	-5.00	40.85	0.13	0.78	0.50	0.00	44.41	0.00	10.56	0.00	0.72	34.02	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.46	0.81	0.04	1087.58	14.76	47.76	339.11
3/24/2025 21:00	1.44	100.00	36.93	6.47	46.23	750.19	752.57	713.28	-5.00	1050.49	1006.78	-5.00	40.50	0.12	0.77	0.50	0.00	44.41	0.00	10.56	0.00	0.72	34.02	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.46	0.81	0.04	1087.70	14.76	47.76	339.11
3/24/2025 21:15	1.43	100.00	43.77	6.80	45.12	746.69	755.71	713.21	-5.00	1062.17	1008.82	-5.00	39.92	0.12	0.75	0.50	0.00	44.42	0.00	10.56	0.00	0.73	34.03	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.46	0.81	0.04	1087.88	14.76	47.76	339.11
3/24/2025 21:30	1.42	100.00	37.98	5.74	44.36	755.91	758.75	715.13	-5.00	1038.32	1007.09	-5.00	39.71	0.12	0.74	0.50	0.00	44.42	0.00	10.56	0.00	0.73	34.03	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.46	0.81	0.04	1087.94	14.76	47.76	339.11
3/24/2025 21:45	1.45	100.00	39.27	7.20	43.91	758.18	763.57	716.09	-5.00	1035.03	1010.09	-5.00	39.53	0.12	0.74	0.50	0.00	44.42	0.00	10.56	0.00	0.73	34.03	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.01	14.76	47.76	339.11
3/24/2025 22:00	1.42	100.00	48.95	5.78	43.88	757.62	764.28	712.69	-5.00	1029.45	1005.42	-5.00	39.21	0.12	0.73	0.50	0.00	44.43	0.00	10.56	0.00	0.73	34.03	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.09	14.76	47.76	339.11
3/24/2025 22:15	1.42	100.00	55.01	5.76	45.41	753.01	758.85	713.49	-5.00	1046.39	1005.15	-5.00	39.20	0.12	0.73	0.50	0.00	44.43	0.00	10.56	0.00	0.73	34.03	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.10	14.76	47.76	339.11
3/24/2025 22:30	1.43	100.00	59.72	6.44	44.23	764.45	765.07	714.18	-5.00	1034.28	1003.85	-5.00	39.25	0.12	0.73	0.50	0.00	44.43	0.00	10.56	0.00	0.73	34.03	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.09	14.76	47.76	339.11
3/24/2025 22:45	1.41	100.00	62.39	5.27	45.51	759.69	749.98	714.27	-5.00	1041.66	1008.87	-5.00	39.33	0.12	0.73	0.50	0.00	44.42	0.00	10.56	0.00	0.73	34.03	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.05	14.76	47.76	339.11
3/24/2025 23:00	1.42	100.00	40.55	5.45	45.08	755.74	741.40	714.41	-5.00	1040.00	1013.52	-5.00	39.27	0.12	0.73	0.50	0.00	44.43	0.00	10.56	0.00	0.73	34.03	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.07	14.76	47.76	339.11
3/24/2025 23:15	1.42	100.00	47.15	5.36	44.95	755.15	716.10	719.86	-5.00	1044.93	1030.01	-5.00	39.25	0.12	0.73	0.50	0.00	44.43	0.00	10.56	0.00	0.73	34.03	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.08	14.76	47.76	339.11
3/24/2025 23:30	1.43	100.00	42.44	4.77	44.52	755.42	728.38	716.35	-5.00	1056.74	1021.33	-5.00	39.10	0.12	0.73	0.50	0.00	44.43	0.00	10.56	0.00	0.73	34.04	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.13	14.76	47.76	339.11
3/24/2025 23:45	1.42	100.00	43.44	4.29	44.39	744.35	727.60	713.21	-5.00	1082.29	1021.91	-5.00	38.72	0.12	0.72	0.50	0.00	44.43	0.00	10.56	0.00	0.73	34.04	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.24	14.76	47.76	339.11
3/25/2025 0:00	1.42	100.00	42.42	5.02	44.07	739.82	728.34	712.37	-5.00	1070.08	1008.44	-5.00	38.76	0.12	0.72	0.50	0.00	44.43	0.00	10.56	0.00	0.73	34.04	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.24	14.76	47.76	339.11
3/25/2025 0:15	1.44	100.00	41.41	4.88	44.12	744.50	729.73	711.87	-5.00	1067.50	1012.40	-5.00	38.93	0.12	0.72	0.50	0.00	44.43	0.00	10.56	0.00	0.73	34.04	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.19	14.76	47.76	339.11
3/25/2025 0:30	1.45	100.00	49.97	5.10	43.76	751.71	739.79	714.85	-5.00	1051.55	1018.42	-5.00	38.95	0.12	0.72	0.50	0.00	44.43	0.00	10.56	0.00	0.73	34.04	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.19	14.76	47.76	339.11
3/25/2025 0:45	1.45	100.00	45.00	5.25	43.48	753.77	742.37	714.80	-5.00	1062.97	1013.80	-5.00	39.02	0.12	0.72	0.50	0.00	44.43	0.00	10.56	0.00	0.73	34.04	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.17	14.76	47.76	339.11
3/25/2025 1:00	1.46	100.00	36.17	5.29	43.49	754.42	743.11	713.28	-5.00	1035.17	1018.24	-5.00	39.14	0.12	0.73	0.50	0.00	44.43	0.00	10.56	0.00	0.73	34.04	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.14	14.76	47.76	339.11
3/25/2025 1:15	1.49	100.00	47.06	6.28	44.79	752.99	745.49	711.65	-5.00	1042.15	1015.08	-5.00	39.07	0.12	0.72	0.50	0.00	44.43	0.00	10.56	0.00	0.73	34.04	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.17	14.76	47.76	339.11
3/25/2025 1:30	1.49	100.00	41.56	5.19	44.70	751.56	739.16	713.10	-5.00	1047.98	1016.02	-5.00	39.00	0.12	0.72	0.50	0.00	44.43	0.00	10.56	0.00	0.73	34.04	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.19	14.76	47.76	339.11
3/25/2025 1:45	1.52	100.00	37.34	5.75	45.27	758.15	745.37	713.85	-5.00	1020.78	1017.32	-5.00	38.86	0.12	0.72	0.50	0.00	44.43	0.00	10.56	0.00	0.73	34.04	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.25	14.76	47.76	339.11
3/25/2025 2:00	1.52	100.00	28.20	5.66	44.82	755.05	730.49	716.94	-5.00	1024.33	1026.32	-5.00	38.89	0.12	0.72	0.50	0.00	44.43	0.00	10.56	0.00	0.73	34.04	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.24	14.76	47.76	339.11
3/25/2025 2:15	1.55	100.00	54.37	5.99	44.99	756.13	740.62	715.66	-5.00	1016.49	1027.95	-5.00	38.82	0.12	0.71	0.50	0.00	44.43	0.00	10.56	0.00	0.73	34.04	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.28	14.76	47.76	339.11
3/25/2025 2:30	1.56	100.00	48.46	5.31	48.08	753.70	737.52	714.67	-5.00	1013.66	1025.37	-5.00	38.76	0.12	0.71	0.50	0.00	44.43	0.00	10.56	0.00	0.73	34.04	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.30	14.76	47.76	339.11
3/25/2025 2:45	1.55	100.00	45.14	5.70	46.75	752.14	734.00	714.48	-5.00	1013.85	1023.12	-5.00	38.88	0.12	0.72	0.50	0.00	44.43	0.00	10.56	0.00	0.73	34.04	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.26	14.76	47.76	339.11
3/25/2025 3:00	1.56	100.00	47.92	5.95	47.02	750.35	727.82	715.02	-5.00	1019.94	1025.56	-5.00	38.54	0.11	0.71	0.50	0.00	44.44	0.00	10.56	0.00	0.73	34.04	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.37	14.76	47.76	339.11
3/25/2025 3:15	1.58	100.00	47.50	6.10	46.92	757.98	739.57	715.30	-5.00	1024.39	1027.63	-5.00	38.49	0.11	0.70	0.50	0.00	44.44	0.00	10.56	0.00	0.73	34.04	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.39	14.76	47.76	339.11
3/25/2025 3:30	1.59	100.00	29.27	5.02	47.50	756.52	725.11	718.49	-5.00	1026.89	1033.75	-5.00	38.45	0.11	0.70	0.50	0.00	44.44	0.00	10.56	0.00	0.73	34.04	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.41	14.76	47.76	339.11
3/25/2025 3:45	1.62	100.00	49.74	6.23	47.93	759.75	748.56	716.89	-5.00	1020.07	1036.23	-5.00	38.49	0.11	0.70	0.50	0.00	44.44	0.00	10.56	0.00	0.73	34.04	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.41	14.76	47.76	339.11
3/25/2025 4:00	1.64	100.00	55.40	6.05	48.17	754.58	734.60	716.09	-5.00	1014.96	1028.71	-5.00	38.45	0.11	0.70	0.50	0.00	44.44	0.00	10.56	0.00	0.73	34.04	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.43	14.76	47.76	339.11
3/25/2025 4:15	1.67	100.00	42.80	6.58	47.40	754.80	733.03	717.18	-5.00	1016.59	1023.41	-5.00	38.46	0.11	0.70	0.50	0.00	44.44	0.00	10.56	0.00	0.73	34.05	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.44	14.75	47.76	339.11
3/25/2025 4:30	1.66	100.00	43.93	5.82	46.17	756.33	736.67	717.28	-5.00	1019.35	1028.93	-5.00	38.34	0.11	0.70	0.50	0.00	44.44	0.00	10.56	0.00	0.73	34.05	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.47	14.75	47.76	339.11
[illegible]																																					

Property Calculations (cont.), ZTOF, 36Inch Flare, 24Inch Flare, Pit Flare

	Maximum Velocity	ZTOF Stage Estimate	ZTOF Flow Estimate	ZTOF Flow Estimate	ZTOF Steam Flow Estimate	ZTOF Steam Flow Estimate	Net Heating Value	Actual Velocity	SO2 Emissions	36inch Flare Active Estimate	36inch Flow Estimate	36inch Flow Estimate	36inch Steam Flow Estimate	36inch Steam Flow Estimate	Net Heating Value	Actual Velocity	SO2 Emissions	24inch Flare Active Estimate	24inch Flow Estimate	24inch Flow Estimate	24inch Steam Flow Estimate	24inch Steam Flow Estimate	Net Heating Value	Actual Velocity	SO2 Emissions	Pit Flare Active Estimate	Pit Flare Scenario	Pit Flow Estimate	Pit Flow Estimate	Net Heating Value	Actual Velocity	SO2 Emissions	Total SO2 Emissions
		1					NHVcz			2.8					NHVcz			3								5.5							
	ft/s		lb/hr	SCFH	lb/hr	SCFH	BTU/SCF	ft/s	kg/period		lb/hr	SCFH	lb/hr	SCFH	BTU/SCF	ft/s	kg/period		lb/hr	SCFH	lb/hr	SCFH	BTU/SCF	ft/s	kg/period			lb/hr	SCFH	BTU/SCF	ft/s	kg/period	kg/period
3/23/2025 10:00	400.00	2.00	9459	243383	12580	264979	523	0.15	22.81	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								22.81
3/23/2025 10:15	400.00	2.00	9534	245306	12580	264979	525	0.15	22.99	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								22.99
3/23/2025 10:30	400.00	2.00	9598	246946	12580	264979	527	0.15	23.14	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								23.14
3/23/2025 10:45	400.00	2.00	9592	246778	12580	264979	527	0.15	23.11	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								23.11
3/23/2025 11:00	400.00	2.00	9768	251289	12580	264979	532	0.15	23.53	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								23.53
3/23/2025 11:15	400.00	2.00	9868	253872	12580	264979	534	0.15	23.77	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								23.77
3/23/2025 11:30	400.00	2.00	9945	255849	12580	264979	536	0.15	23.96	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								23.96
3/23/2025 11:45	400.00	2.00	9998	257212	12580	264979	538	0.15	24.09	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								24.09
3/23/2025 12:00	400.00	2.00	10047	258475	12580	264979	539	0.15	24.20	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								24.20
3/23/2025 12:15	400.00	2.00	10067	258980	12580	264979	540	0.15	24.25	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								24.25
3/23/2025 12:30	400.00	2.00	10131	260616	12580	264979	541	0.15	24.40	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								24.40
3/23/2025 12:45	400.00	2.00	10165	261519	12580	264979	542	0.15	24.49	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								24.49
3/23/2025 13:00	400.00	2.00	10235	263322	12580	264979	544	0.15	24.66	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								24.66
3/23/2025 13:15	400.00	2.00	10050	258563	12580	264979	540	0.15	24.22	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								24.22
3/23/2025 13:30	400.00	2.00	10025	257941	12580	264979	539	0.15	24.16	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								24.16
3/23/2025 13:45	400.00	2.00	10179	261908	12580	264979	543	0.15	24.54	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								24.54
3/23/2025 14:00	400.00	2.00	10415	267985	12580	264979	549	0.15	25.11	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.11
3/23/2025 14:15	400.00	2.00	10533	271028	12580	264979	553	0.16	25.40	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.40
3/23/2025 14:30	400.00	2.00	10614	273104	12580	264979	555	0.16	25.59	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.59
3/23/2025 14:45	400.00	2.00	10189	262166	12580	264979	543	0.15	24.56	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								24.56
3/23/2025 15:00	400.00	2.00	10073	259194	12580	264979	540	0.15	24.29	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								24.29
3/23/2025 15:15	400.00	2.00	10288	264731	12580	264979	546	0.15	24.81	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								24.81
3/23/2025 15:30	400.00	2.00	10408	267816	12580	264979	549	0.15	25.10	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.10
3/23/2025 15:45	400.00	2.00	10460	269164	12580	264979	551	0.15	25.23	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.23
3/23/2025 16:00	400.00	2.00	10514	270567	12580	264979	552	0.16	25.36	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.36
3/23/2025 16:15	400.00	2.00	10385	267248	12580	264979	549	0.15	25.05	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.05
3/23/2025 16:30	400.00	2.00	10340	266103	12580	264979	548	0.15	24.95	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								24.95
3/23/2025 16:45	400.00	2.00	10380	267140	12580	264979	549	0.15	25.05	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.05
3/23/2025 17:00	400.00	2.00	10455	269072	12580	264979	551	0.15	25.23	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.23
3/23/2025 17:15	400.00	2.00	10493	270037	12580	264979	552	0.16	25.32	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.32
3/23/2025 17:30	400.00	2.00	10534	271081	12580	264979	553	0.16	25.42	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.42
3/23/2025 17:45	400.00	2.00	10670	274599	12580	264979	556	0.16	25.75	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.75
3/23/2025 18:00	400.00	2.00	11675	300458	12580	264979	581	0.16	28.17	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.17
3/23/2025 18:15	400.00	2.00	11504	296047	12580	264979	577	0.16	27.76	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								27.76
3/23/2025 18:30	400.00	2.00	11135	286544	12580	264979	568	0.16	26.87	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								26.87
3/23/2025 18:45	400.00	2.00	11033	283918	12580	264979	565	0.16	26.62	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								26.62
3/23/2025 19:00	400.00	2.00	10809	278161	12580	264979	560	0.16	26.08	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								26.08
3/23/2025 19:15	400.00	2.00	10838	278909	12580	264979	560	0.16	26.15	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								26.15
3/23/2025 19:30	400.00	2.00	10747	276566	12580	264979	558	0.16	25.93	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.93
3/23/2025 19:45	400.00	2.00	10722	275909	12580	264979	558	0.16	25.87	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.87
3/23/2025 20:00	400.00	2.00	10853	279291	12580	264979	561	0.16	26.18	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								26.18
3/23/2025 20:15	400.00	2.00	11000	283066	12580	264979	564	0.16	26.54	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								26.54
3/23/2025 20:30	400.00	2.00	11010	283329	12580	264979	565	0.16	26.56	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								26.56
3/23/2025 20:45	400.00	2.00	10868	279662	12580	264979	561	0.16	26.22	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								26.22
3/23/2025 21:00	400.00	2.00	11153	287000	12580	264979	568	0.16	26.90	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								26.90
3/23/2025 21:15	400.00	2.00	11714	301426	12580	264979	581	0.16	28.25	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.25
3/23/2025 21:30	400.00	2.00	11662	300096	12580	264979	580	0.16	28.13	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.13
3/23/2025 21:45	400.00	2.00	11714	301427	12580	264979	581	0.16	28.25	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.25
3/23/2025 22:00	400.00	2.00	11917	306657	12580	264979	586	0.17	28.74	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.74
3/23/2025 22:15	400.00	2.00	11886	305859	12580	264979	585	0.17	28.67	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.67
3/23/2025 22:30	400.00	2.00	11838	304601	12580	264979	584	0.17	28.55	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.55
3/23/2025 22:45	400.00	2.00	11924	306804	12580	264979	586	0.17	28.75	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.75
3/23/2025 23:00	400.00	2.00	11797	303541	12580	264979	583	0.16	28.44	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.44
3/23/2025 23:15	400.00	2.00	11791	303378	12580	264979	583	0.16	28.42	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.42
3/23/2025 23:30	400.00	2.00	11792	303414	12580	264979	583	0.16	28.43	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.43
3/23/2025 23:45	400.00	2.00	11641	299543	12580	264979	580	0.16	28.07	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.07
3/24/2025 0:00	400.00	2.00	11644	299613	12580	264979	580	0.16	28.08	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.08
3/24/2025 0:15	400.00	2.00	11653	299860	12580	264979	580	0.16	28.10	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.10
3/24/2025 0:30	400.00	2.00	11644	299617	12580	264979	580	0.16	28.08	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.08
3/24/2025 0:45	400.00	2.00	11493	295749	12580	264979	576	0.16	27.72	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								27.72
3/24/2025 1:00	400.00	2.00	11480	295411	12580	264979	576	0.16	27.69	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								27.69
3/24/2025 1:15	400.00	2.00	11493	295753	12580	264979	576	0.16	27.72	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								27.72
3/24/2025 1:30	400.00	2.00	11705	301183	12580	264979	581	0.16	28.23	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.23
3/24/2025 1:45	400.00	2.00	12084	310955	12580	264979	590	0.17	29.14	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								29.14
3/24/2025 2:00	400.00	2.00	11805	303751	12580	264979	583	0.16	28.47	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.47
3/24/2025 2:15	400.00	2.00	11695	300930	12580	264979	581	0.16	28.20	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.20
3/24/2025 2:30	400.00	2.00	11713	301367	12580	264979	581	0.16	28.24	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.24
3/24/2025 2:45	400.00	2.00	11805	303744	12580	264979	583	0.16	28.46	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.46
3/24/2025 3:00	400.00	2.00	11754	302428	12580	264979	582	0.16	28.33	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.33
3/24/2025 3:15	400.00	2.00	11784	303188	12580	264979	583	0.16	28.40	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.40
3/24/2025 3:30	400.00	2.00	11814	303961	12580	264979	583	0.16	28.47	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.47
3/24/2025 3:45	400.00	2.00	11995	308600	12580	264979	587	0.17	28.91	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.91
3/24/2025 4:00	400.00	2.00	11919	306658	12580	264979	586	0.17	28.72	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.72
3/24/2025 4:15	400.00	2.00	11898	306118	12580	264979	585	0.17	28.67	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.67
3/24/2025 4:30	400.00	2.00	12006	308896	12580	264979	587	0.17	28.93	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.93
3/24/2025 4:45	400.00	2.00	12046	309907	12580	264979	588	0.17	29.02	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								29.02
3/24/2025 5:00	400.00	2.00	12210	314132	12580	264979	592	0.17	29.42	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								29.42
3/24/2025 5:15	400.00	2.00	12088	310984	12580	264979	589	0.17	29.12	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								29.12
3/24/2025 5:30	400.00	2.00	12143	312405	12580	264979	590	0.17	29.25	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								29.25
3/24/2025 5:45	400.00	2.00	12167	312994	12580	264979	591	0.17	29.30	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								29.30
3/24/2025 6:00	400.00	2.00	12214	314207	12580	264979	592	0.17	29.41	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								29.41
3/24/2025 6:15	400.00	2.00	12214	314202	12580	264979	592	0.17	29.41	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								29.41
3/24/2025 6:30	400.00	2.00	12194	313665	12580	264979	591	0.17	29.36	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								29.36
3/24/2025 6:45	400.00	2.00	12331	317203	12580	264979	594	0.17	29.69	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								29.69
3/24/2025 7:00	400.00	2.00	12423	319565	12580	264979	596	0.17	29.91	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								29.91
3/24/2025 7:15	400.00	2.00	12037	309628	12580	264979	588	0.17	28.97	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.97
3/24/2025 7:30	400.00	2.00	12650	325354	12580	264979	601	0.17	30.43	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								30.43
3/24/2025 7:45	400.00	2.00	12574	323405	12580	264979	599	0.17	30.25	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								30.25
3/24/2025 8:00	400.00	2.00	12476	320875	12580	264979	597	0.17	30.01	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								30.01
3/24/2025 8:15	400.00	2.00	12041	309667	12580	264979	587	0.17	28.96	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.96
3/24/2025 8:30	400.00	2.00	11704	300973	12580	264979	579	0.16	28.13	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.13
3/24/2025 8:45	400.00	2.07	15485	398164	14257	300309	612	0.20	37.20	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								37.20
3/24/2025 9:00	400.00	2.00	11991	308319	12580	264979	585	0.17	28.80	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.80
3/24/2025 9:15	400.00	2.00	11894	305813	12580	264979	583	0.17	28.56	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.56
3/24/2025 9:30	400.00	2.00	11899	305916	12580	264979	583	0.17	28.57	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.57
3/24/2025 9:45	400.00	2.00	12045	309705	12580	264979	587	0.17	28.93	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.93
3/24/2025 10:00	400.00	2.00	11968	307699	12580	264979	585	0.17	28.74	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.74
3/24/2025 10:15	400.00	2.00	11907	306150	12580	264979	584	0.17	28.60	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.60
3/24/2025 10:30	400.00	2.00	11872	305248	12580	264979	583	0.17	28.51	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.51
3/24/2025 10:45	400.00	2.00	11685	300425	12580	264979	578	0.16	28.06	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.06
3/24/2025 11:00	400.00	2.00	10876	279606	12580	264979	559	0.16	26.11	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								26.11
3/24/2025 11:15	400.00	2.00	10841	278683	12580	264979	558	0.16	26.01	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								26.01
3/24/2025 11:30	400.00	2.00	10812	277911	12580	264979	557	0.16	25.93	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.93
3/24/2025 11:45	400.00	2.00	10681	274575	12580	264979	554	0.16	25.63	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.63
3/24/2025 12:00	400.00	2.00	10680	274537	12580	264979	554	0.16	25.62	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.62
3/24/2025 12:15	400.00	2.00	10651	273762	12580	264979	553	0.16	25.54	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.54
3/24/2025 12:30	400.00	2.00	10584	272018	12580	264979	551	0.16	25.37	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.37
3/24/2025 12:45	400.00	2.00	10564	271584	12580	264979	551	0.16	25.35	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.35
3/24/2025 13:00	400.00	2.00	10520	270459	12580	264979	550	0.16	25.25	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.25
3/24/2025 13:15	400.00	2.00	10533	270763	12580	264979	550	0.16	25.27	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.27
3/24/2025 13:30	400.00	2.00	10465	269032	12580	264979	548	0.15	25.12	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.12
3/24/2025 13:45	400.00	2.00	10523	270562	12580	264979	550	0.16	25.27	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.27
3/24/2025 14:00	400.00	2.00	10458	268895	12580	264979	549	0.15	25.12	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.12
3/24/2025 14:15	400.00	2.00	10434	268287	12580	264979	548	0.15	25.07	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.07
3/24/2025 14:30	400.00	2.00	10438	268450	12580	264979	549	0.15	25.11	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.11
3/24/2025 14:45	400.00	2.00	10866	279453	12580	264979	559	0.16	26.13	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								26.13
3/24/2025 15:00	400.00	2.00	10743	276289	12580	264979	556	0.16	25.83	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.83
3/24/2025 15:15	400.00	2.00	10769	276958	12580	264979	557	0.16	25.90	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.90
3/24/2025 15:30	400.00	2.00	10845	278881	12580	264979	559	0.16	26.07	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								26.07
3/24/2025 15:45	400.00	2.00	10886	279873	12580	264979	559	0.16	26.13	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								26.13
3/24/2025 16:00	400.00	2.00	11274	289869	12580	264979	569	0.16	27.08	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								27.08
3/24/2025 16:15	400.00	2.00	11367	292282	12580	264979	571	0.16	27.31	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								27.31
3/24/2025 16:30	400.00	2.00	11224	288624	12580	264979	568	0.16	26.97	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								26.97
3/24/2025 16:45	400.00	2.00	11194	287828	12580	264979	567	0.16	26.90	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								26.90
3/24/2025 17:00	400.00	2.00	11327	291256	12580	264979	570	0.16	27.22	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								27.22
3/24/2025 17:15	400.00	2.00	11908	306203	12580	264979	583	0.17	28.62	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.62
3/24/2025 17:30	400.00	2.00	11863	305048	12580	264979	583	0.17	28.51	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.51
3/24/2025 17:45	400.00	2.00	11576	297670	12580	264979	576	0.16	27.82	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								27.82
3/24/2025 18:00	400.00	2.00	11491	295506	12580	264979	574	0.16	27.62	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								27.62
3/24/2025 18:15	400.00	2.00	11374	292543	12580	264979	572	0.16	27.36	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								27.36
3/24/2025 18:30	400.00	2.00	11344	291786	12580	264979	571	0.16	27.30	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								27.30
3/24/2025 18:45	400.00	2.00	11139	286476	12580	264979	566	0.16	26.79	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								26.79
3/24/2025 19:00	400.00	2.00	11131	286274	12580	264979	566	0.16	26.77	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								26.77
3/24/2025 19:15	400.00	2.00	12035	309509	12580	264979	587	0.17	28.94	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.94
3/24/2025 19:30	400.00	2.00	12618	324518	12580	264979	600	0.17	30.35	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								30.35
3/24/2025 19:45	400.00	2.00	11676	300286	12580	264979	579	0.16	28.08	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.08
3/24/2025 20:00	400.00	2.00	11171	287309	12580	264979	567	0.16	26.87	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								26.87
3/24/2025 20:15	400.00	2.00	10902	280384	12580	264979	561	0.16	26.22	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								26.22
3/24/2025 20:30	400.00	2.00	10832	278596	12580	264979	559	0.16	26.06	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								26.06
3/24/2025 20:45	400.00	2.00	10756	276648	12580	264979	557	0.16	25.88	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.88
3/24/2025 21:00	400.00	2.00	10747	276414	12580	264979	557	0.16	25.86	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.86
3/24/2025 21:15	400.00	2.00	10689	274937	12580	264979	555	0.16	25.72	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.72
3/24/2025 21:30	400.00	2.00	10546	271255	12580	264979	552	0.16	25.38	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.38
3/24/2025 21:45	400.00	2.00	10851	279112	12580	264979	559	0.16	26.12	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								26.12
3/24/2025 22:00	400.00	2.00	10540	271127	12580	264979	552	0.16	25.37	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.37
3/24/2025 22:15	400.00	2.00	10603	272737	12580	264979	553	0.16	25.52	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.52
3/24/2025 22:30	400.00	2.00	10635	273547	12580	264979	554	0.16	25.60	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.60
3/24/2025 22:45	400.00	2.00	10454	268893	12580	264979	550	0.15	25.16	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.16
3/24/2025 23:00	400.00	2.00	10503	270160	12580	264979	551	0.16	25.28	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.28
3/24/2025 23:15	400.00	2.00	10501	270118	12580	264979	551	0.16	25.28	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.28
3/24/2025 23:30	400.00	2.00	10684	274810	12580	264979	555	0.16	25.72	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.72
3/24/2025 23:45	400.00	2.00	10516	270499	12580	264979	551	0.16	25.32	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.32
3/25/2025 0:00	400.00	2.00	10603	272735	12580	264979	553	0.16	25.53	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.53
3/25/2025 0:15	400.00	2.00	10755	276643	12580	264979	557	0.16	25.89	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								25.89
3/25/2025 0:30	400.00	2.00	10845	278965	12580	264979	560	0.16	26.11	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								26.11
3/25/2025 0:45	400.00	2.00	10901	280401	12580	264979	561	0.16	26.24	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								26.24
3/25/2025 1:00	400.00	2.00	11064	284592	12580	264979	565	0.16	26.63	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								26.63
3/25/2025 1:15	400.00	2.00	11323	291272	12580	264979	571	0.16	27.26	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								27.26
3/25/2025 1:30	400.00	2.00	11321	291220	12580	264979	571	0.16	27.25	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								27.25
3/25/2025 1:45	400.00	2.00	11696	300864	12580	264979	580	0.16	28.16	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.16
3/25/2025 2:00	400.00	2.00	11743	302059	12580	264979	581	0.16	28.27	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								28.27
3/25/2025 2:15	400.00	2.00	12088	310957	12580	264979	589	0.17	29.10	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								29.10
3/25/2025 2:30	400.00	2.00	12160	312811	12580	264979	590	0.17	29.28	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								29.28
3/25/2025 2:45	400.00	2.00	12052	310020	12580	264979	588	0.17	29.02	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								29.02
3/25/2025 3:00	400.00	2.00	12198	313785	12580	264979	591	0.17	29.37	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								29.37
3/25/2025 3:15	400.00	2.00	12409	319207	12580	264979	596	0.17	29.88	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								29.88
3/25/2025 3:30	400.00	2.00	12517	321985	12580	264979	598	0.17	30.14	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								30.14
3/25/2025 3:45	400.00	2.00	12826	329940	12580	264979	605	0.17	30.88	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								30.88
3/25/2025 4:00	400.00	2.00	13108	337191	12580	264979	611	0.17	31.56	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								31.56
3/25/2025 4:15	400.00	2.00	13379	344170	12580	264979	616	0.18	32.22	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								32.22
3/25/2025 4:30	400.00	2.00	13366	343841	12580	264979	616	0.18	32.19	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								32.19
[illegible]																																	

Flare Sulphur Emissions

** Data reported below is ONLY covering the times the flares were actively flaring process gasses*

**The Flare Gas compositions are estimated based on the heat and material balance, and lab analysis of flare header samples and unit operations*

= Flare Not Active This Event

Historian Data

	Flare Header Pressure	Flare Gas Compressor Spillback	Flare Flow Meter	Flare Flow Meter	Total SO2 Emissions
	20_PI947	03PC105(	14_FR631	14_FI631(	
	PSIG	%	KSCFH	KLB/HR	kg/period
3/25/2025 6:45	1.68	100.00	44.70	6.73	32.57
3/25/2025 7:00	1.68	100.00	51.16	6.73	32.76
3/25/2025 7:15	1.67	100.00	38.74	6.22	32.34
3/25/2025 7:30	1.67	100.00	55.27	5.71	32.38
3/25/2025 7:45	1.68	100.00	51.48	6.15	32.52
3/25/2025 8:00	1.66	100.00	49.43	5.88	32.11
3/25/2025 8:15	1.85	100.00	25.08	3.97	48.85
3/25/2025 8:30	1.64	100.00	37.93	6.97	31.58
3/25/2025 8:45	1.63	100.00	34.36	5.22	31.12
3/25/2025 9:00	1.60	100.00	45.65	5.77	30.40
3/25/2025 9:15	1.62	100.00	53.84	6.18	31.00
3/25/2025 9:30	1.69	100.00	47.18	6.11	32.96
3/25/2025 9:45	1.71	100.00	44.31	5.41	33.40
3/25/2025 10:00	1.72	100.00	44.54	5.58	33.71
3/25/2025 10:15	1.72	100.00	36.76	5.37	33.80
3/25/2025 10:30	1.73	100.00	39.78	5.38	33.97
3/25/2025 10:45	1.74	100.00	44.55	5.20	34.15
3/25/2025 11:00	1.74	100.00	44.53	5.99	34.11
3/25/2025 11:15	1.74	100.00	47.42	6.77	34.02
3/25/2025 11:30	1.73	100.00	40.24	5.44	33.87
3/25/2025 11:45	1.72	100.00	42.85	6.68	33.45
3/25/2025 12:00	1.71	100.00	37.40	5.35	33.11
3/25/2025 12:15	1.70	100.00	44.29	5.72	32.86
3/25/2025 12:30	1.69	100.00	45.43	4.57	32.68
3/25/2025 12:45	1.67	100.00	50.21	5.91	32.15
3/25/2025 13:00	1.66	100.00	47.82	5.99	31.76
3/25/2025 13:15	1.63	100.00	47.99	6.45	31.22
3/25/2025 13:30	1.63	100.00	50.53	5.88	31.14
3/25/2025 13:45	1.64	100.00	50.94	6.70	31.28
3/25/2025 14:00	1.64	100.00	51.28	6.74	31.43
3/25/2025 14:15	1.63	100.00	52.05	6.40	31.18
3/25/2025 14:30	1.60	100.00	54.05	5.92	30.31
3/25/2025 14:45	1.57	100.00	36.36	4.67	29.32
3/25/2025 15:00	1.57	100.00	57.25	5.44	29.46
3/25/2025 15:15	2.04	100.00	36.58	3.88	61.68
3/25/2025 15:30	1.90	100.00	20.05	3.35	50.19
3/25/2025 15:45	1.64	100.00	33.06	5.25	35.13
3/25/2025 16:00	1.61	100.00	43.66	5.47	30.70
3/25/2025 16:15	1.60	100.00	52.02	6.25	30.34
3/25/2025 16:30	1.61	100.00	42.40	5.04	30.47
3/25/2025 16:45	1.60	100.00	40.40	5.82	30.28
3/25/2025 17:00	1.58	100.00	45.86	5.58	29.85
3/25/2025 17:15	1.60	100.00	38.85	5.42	30.35
3/25/2025 17:30	1.60	100.00	41.95	5.59	30.41
3/25/2025 17:45	1.60	100.00	40.19	5.69	30.41
3/25/2025 18:00	1.61	100.00	39.78	5.38	30.49
3/25/2025 18:15	1.61	100.00	41.20	5.60	30.74
3/25/2025 18:30	1.65	100.00	38.87	5.83	31.75
3/25/2025 18:45	1.61	100.00	41.95	5.49	30.55
3/25/2025 19:00	1.62	100.00	36.31	5.46	31.04
3/25/2025 19:15	1.62	100.00	67.54	6.49	31.02
3/25/2025 19:30	1.65	100.00	41.17	6.27	31.92
3/25/2025 19:45	1.62	100.00	46.15	5.05	30.93
3/25/2025 20:00	1.63	100.00	38.06	5.16	31.37
3/25/2025 20:15	1.64	100.00	42.29	5.63	31.58
3/25/2025 20:30	1.65	100.00	41.24	4.75	31.94
3/25/2025 20:45	1.63	100.00	53.93	5.20	31.42
3/25/2025 21:00	1.64	100.00	43.60	4.53	31.45
3/25/2025 21:15	1.64	100.00	50.47	5.80	31.68
3/25/2025 21:30	1.64	100.00	36.88	4.94	31.64
3/25/2025 21:45	1.65	100.00	50.39	4.67	31.83
3/25/2025 22:00	1.66	100.00	26.07	3.68	32.04
3/25/2025 22:15	1.68	100.00	52.64	5.53	32.61
3/25/2025 22:30	1.69	100.00	43.60	5.73	33.09
3/25/2025 22:45	1.73	100.00	45.91	5.65	34.03
3/25/2025 23:00	1.77	100.00	55.86	6.74	35.32
3/25/2025 23:15	1.78	100.00	66.53	7.33	35.49
3/25/2025 23:30	1.78	100.00	56.84	6.92	35.55
3/25/2025 23:45	1.78	100.00	52.96	6.56	35.52
3/26/2025 0:00	1.78	100.00	54.80	7.05	10.12
3/26/2025 0:15	1.77	100.00	51.38	6.55	10.05
3/26/2025 0:30	1.76	100.00	56.29	6.97	9.99
3/26/2025 0:45	1.76	100.00	68.95	7.36	9.99
3/26/2025 1:00	1.76	100.00	57.89	5.92	10.01
3/26/2025 1:15	1.77	100.00	45.69	5.23	10.07
3/26/2025 1:30	1.77	100.00	54.53	5.92	10.11
3/26/2025 1:45	1.78	100.00	51.36	6.17	10.16
3/26/2025 2:00	1.79	100.00	46.88	6.19	10.26
3/26/2025 2:15	1.81	100.00	46.90	6.13	10.41
3/26/2025 2:30	1.79	100.00	42.99	4.37	10.29
3/26/2025 2:45	1.74	100.00	46.56	5.26	9.84
3/26/2025 3:00	1.71	100.00	48.48	5.24	9.61
3/26/2025 3:15	1.70	100.00	42.47	4.56	9.57
3/26/2025 3:30	1.72	100.00	38.25	5.03	9.70
3/26/2025 3:45	1.70	100.00	40.32	4.15	9.57
3/26/2025 4:00	1.68	100.00	32.26	4.53	9.38
3/26/2025 4:15	1.68	100.00	39.85	5.00	9.42
3/26/2025 4:30	1.68	100.00	37.88	4.08	9.39
3/26/2025 4:45	1.68	100.00	27.46	3.79	9.43
3/26/2025 5:00	1.76	100.00	44.82	4.15	11.12
3/26/2025 5:15	1.62	100.00	30.27	4.27	8.90
3/26/2025 5:30	1.77	100.00	27.43	5.34	10.16
3/26/2025 5:45	1.85	100.00	105.70	7.85	10.73
3/26/2025 6:00	1.69	100.00	72.72	6.85	9.48
3/26/2025 6:15	1.85	100.00	31.65	3.25	14.12
3/26/2025 6:30	1.63	100.00	45.23	5.09	10.02
3/26/2025 6:45	1.59	100.00	38.20	4.13	8.65
3/26/2025 7:00	2.00	100.00	26.43	2.79	17.37
3/26/2025 7:15	1.96	100.00	43.54	5.68	16.25
3/26/2025 7:30	1.95	100.00	67.13	6.85	11.54
3/26/2025 7:45	1.87	100.00	68.81	6.80	10.91
3/26/2025 8:00	1.86	100.00	54.16	6.54	10.85
3/26/2025 8:15	1.63	100.00	44.61	4.17	9.00
3/26/2025 8:30	1.63	100.00	23.83	2.96	8.98
3/26/2025 8:45	1.62	100.00	33.58	4.00	8.87
3/26/2025 9:00	1.65	100.00	44.13	4.85	9.13
3/26/2025 9:15	1.70	100.00	51.28	5.97	9.51
3/26/2025 9:30	1.58	100.00	39.99	4.84	8.57
3/26/2025 9:45	1.56	100.00	52.68	6.29	8.35
3/26/2025 10:00	1.53	100.00	51.23	5.78	8.09
3/26/2025 10:15	1.51	100.00	46.20	5.87	7.95
3/26/2025 10:30	1.51	100.00	32.74	4.74	7.94
3/26/2025 10:45	1.52	100.00	34.94	4.79	8.10
3/26/2025 11:00	1.56	100.00	44.78	5.48	8.36
3/26/2025 11:15	1.62	100.00	41.54	5.83	8.83
3/26/2025 11:30	1.76	100.00	109.46	7.41	9.93
3/26/2025 11:45	2.14	100.00	25.94	3.04	12.91
3/26/2025 12:00	2.50	100.00	43.95	3.92	32.47
3/26/2025 12:15	2.33	100.00	31.52	3.14	30.87
3/26/2025 12:30	2.25	100.00	40.23	1.84	30.10
3/26/2025 12:45	2.25	100.00	47.70	3.24	30.06
3/26/2025 13:00	1.70	100.00	36.70	4.57	15.87
3/26/2025 13:15	1.10	100.00	55.71	4.39	2.78
3/26/2025 13:30	1.09	100.00	53.93	5.30	2.78
3/26/2025 13:45	1.11	100.00	66.37	5.37	2.78
3/26/2025 14:00	1.17	100.00	95.53	6.04	2.78
3/26/2025 14:15	1.02	100.00	69.05	4.97	2.78
3/26/2025 14:30	0.95	100.00	33.34	3.56	2.78
3/26/2025 14:45	0.98	100.00	30.35	3.80	2.78
3/26/2025 15:00	0.98	100.00	32.51	4.20	2.78
3/26/2025 15:15	0.98	100.00	36.38	4.27	2.78
3/26/2025 15:30	1.00	100.00	37.33	4.27	2.78
3/26/2025 15:45	1.04	100.00	45.00	4.73	2.77
3/26/2025 16:00	0.99	100.00	37.17	3.97	2.78
3/26/2025 16:15	0.99	100.00	39.97	4.31	2.78
3/26/2025 16:30	0.97	100.00	32.33	4.01	2.78
3/26/2025 16:45	0.97	100.00	39.50	4.54	2.78
3/26/2025 17:00	0.95	100.00	31.17	4.01	2.78
3/26/2025 17:15	0.95	100.00	30.71	4.57	2.78
3/26/2025 17:30	0.96	100.00	41.14	4.55	2.78
3/26/2025 17:45	0.94	100.00	34.99	4.38	2.78
3/26/2025 18:00	0.92	100.00	33.93	4.02	2.78
3/26/2025 18:15	0.91	100.00	37.36	4.53	2.78
3/26/2025 18:30	0.91	100.00	32.80	3.74	2.78
3/26/2025 18:45	0.89	100.00	36.26	4.24	2.78
3/26/2025 19:00	0.88	100.00	34.83	4.02	2.78
3/26/2025 19:15	0.94	100.00	39.52	4.42	2.78
3/26/2025 19:30	0.96	100.00	37.02	5.43	2.78
3/26/2025 19:45	0.95	100.00	44.82	4.34	2.78
3/26/2025 20:00	0.95	100.00	38.20	5.92	2.78
3/26/2025 20:15	0.94	100.00	32.36	4.58	2.78
3/26/2025 20:30	0.93	100.00	38.63	4.53	2.78
3/26/2025 20:45	0.93	100.00	32.64	4.39	2.78
3/26/2025 21:00	0.93	100.00	39.17	4.98	2.78
3/26/2025 21:15	0.93	100.00	39.19	4.70	2.78
3/26/2025 21:30	0.93	100.00	33.10	4.27	2.78
3/26/2025 21:45	0.94	100.00	44.20	5.07	2.78
3/26/2025 22:00	0.94	100.00	41.75	4.97	2.78
3/26/2025 22:15	0.94	100.00	53.88	4.97	2.78
3/26/2025 22:30	0.94	100.00	33.82	4.68	2.78
3/26/2025 22:45	0.93	100.00	33.93	4.75	2.78
3/26/2025 23:00	0.94	100.00	44.09	4.58	2.78
3/26/2025 23:15	0.94	100.00	39.06	4.80	2.78
3/26/2025 23:30	0.94	100.00	38.13	4.61	2.78
3/26/2025 23:45	0.94	100.00	33.89	4.50	2.78
3/27/2025 0:00	0.94	100.00	41.55	4.81	10.85
3/27/2025 0:15	0.94	100.00	31.36	5.01	10.85
3/27/2025 0:30	0.95	100.00	41.69	4.22	10.85
3/27/2025 0:45	0.96	100.00	34.85	4.30	10.85
3/27/2025 1:00	0.98	100.00	41.91	4.93	10.85
3/27/2025 1:15	0.98	100.00	33.37	4.33	10.85
3/27/2025 1:30	0.99	100.00	42.96	4.40	10.85
3/27/2025 1:45	0.99	100.00	42.82	4.72	10.85
3/27/2025 2:00	0.99	100.00	41.71	4.94	10.85
3/27/2025 2:15	1.00	100.00	29.61	4.61	10.85
3/27/2025 2:30	1.00	100.00	31.89	4.52	10.85
3/27/2025 2:45	1.02	100.00	38.22	4.70	10.85
3/27/2025 3:00	1.02	100.00	38.31	4.90	10.85
3/27/2025 3:15	1.03	100.00	38.52	5.06	10.85

	Flare Flow Meter	36inch Pilots	36inch Pilots	36inch Pilots	36inch Steam OP	24inch Pilots	24inch Pilots	24inch Steam	Ambient Temperature	Water Vapour /Partial Pressure	Water	Hydrogen Sulphide	Sulphur Dioxide	Hydrogen	Oxygen	Nitrogen	Carbon Monoxide	Carbon Dioxide	Methane
	14_MI631(	98_TI401	98_TI401	98_TI401	98_FC40	98_TI402	98_TI402	98_FC40	14_TI1006										
	LB/LB-MOL	DEGF	DEGF	DEGF	%	DEGF	DEGF	%	DEGF	PSIA	Mol %	mol%	mol%	mol %	mol %	mol %	mol %	mol %	mol %
3/25/2025 6:45	46.61	754.32	703.36	719.64	-5.00	1080.16	1053.22	-5.00	38.37	0.11	0.70	0.50	0.00	44.44	0.00	10.56	0.00	0.73	34.05
3/25/2025 7:00	46.46	743.10	708.09	714.22	-5.00	1091.47	1034.86	-5.00	37.98	0.11	0.68	0.50	0.00	44.45	0.00	10.57	0.00	0.73	34.05
3/25/2025 7:15	45.40	748.09	711.74	714.96	-5.00	1082.62	1034.47	-5.00	38.08	0.11	0.69	0.50	0.00	44.44	0.00	10.57	0.00	0.73	34.05
3/25/2025 7:30	47.21	744.90	705.90	715.42	-5.00	1089.20	1025.87	-5.00	37.60	0.11	0.68	0.50	0.00	44.45	0.00	10.57	0.00	0.73	34.05
3/25/2025 7:45	45.98	750.47	709.12	717.51	-5.00	1087.00	1032.70	-5.00	37.99	0.11	0.69	0.50	0.00	44.45	0.00	10.57	0.00	0.73	34.05
3/25/2025 8:00	46.48	752.39	719.44	713.11	-5.00	1079.85	1031.81	-5.00	38.35	0.11	0.70	0.50	0.00	44.44	0.00	10.56	0.00	0.73	34.05
3/25/2025 8:15	43.31	750.54	724.67	712.04	-5.00	1079.06	1035.11	-5.00	38.92	0.12	0.70	0.50	0.00	44.44	0.00	10.56	0.00	0.73	34.04
3/25/2025 8:30	49.61	746.88	731.65	709.45	-5.00	1059.21	1024.23	-5.00	39.17	0.12	0.72	0.50	0.00	44.43	0.00	10.56	0.00	0.73	34.04
3/25/2025 8:45	48.17	746.96	750.86	706.20	-5.00	1049.59	1023.92	-5.00	39.97	0.12	0.74	0.50	0.00	44.42	0.00	10.56	0.00	0.73	34.03
3/25/2025 9:00	47.97	751.38	760.34	704.13	-5.00	1052.38	1015.88	-5.00	40.45	0.12	0.76	0.50	0.00	44.41	0.00	10.56	0.00	0.72	34.02
3/25/2025 9:15	47.92	745.97	754.35	702.71	-5.00	1053.57	1010.32	-5.00	40.23	0.12	0.75	0.50	0.00	44.42	0.00	10.56	0.00	0.73	34.03
3/25/2025 9:30	50.56	746.43	748.70	700.86	-5.00	1041.66	1010.64	-5.00	39.94	0.12	0.74	0.50	0.00	44.42	0.00	10.56	0.00	0.73	34.03

Calculated Data — Flare Gas Composition / Property Calculations

	Ethane	Propane	Propylene	i-Butane	n-Butane	Butylene	i-Pentane	n-Pentane	n-Hexane and C6+	Flare Gas Lower Flamibility Limit	Net Heating Value	Molecular Weight	NFVvg-LFL	Calc Net Heating Value Limit	Maximum Velocity
										LFLvg	NHVvg			NHVcz-limit	
	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %		BTU/SCF	lb/lbmol		BTU/SCF	ft/s
3/25/2025 6:45	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.47	14.75	47.76	339.11	400.00
3/25/2025 7:00	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.59	14.75	47.76	339.11	400.00
3/25/2025 7:15	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.55	14.75	47.76	339.11	400.00
3/25/2025 7:30	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.69	14.75	47.76	339.11	400.00
3/25/2025 7:45	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.58	14.75	47.76	339.11	400.00
3/25/2025 8:00	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.47	14.75	47.76	339.11	400.00
3/25/2025 8:15	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.38	14.76	47.76	339.11	400.00
3/25/2025 8:30	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.21	14.76	47.76	339.11	400.00
3/25/2025 8:45	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.46	0.81	0.04	1087.96	14.76	47.76	339.11	400.00
3/25/2025 9:00	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.46	0.81	0.04	1087.79	14.76	47.76	339.11	400.00
3/25/2025 9:15	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.46	0.81	0.04	1087.88	14.76	47.76	339.11	400.00
3/25/2025 9:30	2.13	1.83	0.00	1.54	1.29	0.00	0.97	0.47	0.81	0.04	1088.00	14.76	47.76	339.11	400.00

ZTOF / 36Inch Flare / 24Inch Flare / Pit Flare

	ZTOF Stage Estimate	ZTOF Flow Estimate	ZTOF Flow Estimate	ZTOF Steam Flow Estimate	ZTOF Steam Flow Estimate	Net Heating Value	Actual Velocity	SO2 Emissions	36inch Flare Active Estimate	36inch Flow Estimate	36inch Flow Estimate	36inch Steam Flow Estimate	36inch Steam Flow Estimate	Net Heating Value	Actual Velocity	SO2 Emissions	24inch Flare Active Estimate	24inch Flow Estimate	24inch Flow Estimate	24inch Steam Flow Estimate	24inch Steam Flow Estimate	Net Heating Value	Actual Velocity	SO2 Emissions	Pit Flare Active Estimate	Pit Flare Scenario	Pit Flow Estimate	Pit Flow Estimate	Net Heating Value	Actual Velocity	SO2 Emissions
	1					NHVcz			2.8					NHVcz			3								5.5						
		lb/hr	SCFH	lb/hr	SCFH	BTU/SCF	ft/s	kg/period		lb/hr	SCFH	lb/hr	SCFH	BTU/SCF	ft/s	kg/period		lb/hr	SCFH	lb/hr	SCFH	BTU/SCF	ft/s	kg/period			lb/hr	SCFH	BTU/SCF	ft/s	kg/period
3/25/2025 6:45	2.00	13526	347946	12580	264979	619	0.18	32.57	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0							
3/25/2025 7:00	2.00	13602	349928	12580	264979	621	0.18	32.76	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0							
3/25/2025 7:15	2.00	13428	345432	12580	264979	617	0.18	32.34	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0							
3/25/2025 7:30	2.00	13445	345882	12580	264979	618	0.18	32.38	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0							
3/25/2025 7:45	2.00	13501	347314	12580	264979	619	0.18	32.52	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0							
3/25/2025 8:00	2.00	13332	342967	12580	264979	615	0.18	32.11	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0							
3/25/2025 8:15	2.20	20286	521861	17612	370970	624	0.26	48.85	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0							
3/25/2025 8:30	2.00	13119	337454	12580	264979	610	0.17	31.58	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0							
3/25/2025 8:45	2.00	12932	332642	12580	264979	606	0.17	31.12	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0							
3/25/2025 9:00	2.00	12635	324994	12580	264979	600	0.17	30.40	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0							
3/25/2025 9:15	2.00	12880	331292	12580	264979	606	0.17	31.00	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0							
3/25/2025 9:30	2.00	13696	352282	12580	264979	622	0.18	32.96	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0							

Flare Sulphur Emissions

** Data reported below is ONLY covering the times the flares were actively flaring process gasses*

**The Flare Gas compositions are estimated based on the heat and material balance, and lab analysis of flare header samples and unit operations*

= Flare Not Active This Event

	Historian Data: Flare Header Pressure	Flare Gas Compressor Spillback	Flare Flow Meter	Flare Flow Meter	Flare Flow Meter	36inch Pilots	36inch Pilots	36inch Pilots	36inch Steam OP	24inch Pilots	24inch Pilots	24inch Steam	Ambient Temperature	Calculated Data: Water Vapour /Partial Pressure	Water	Flare Gas Composition: Hydrogen Sulphide	Sulphur Dioxide	Hydrogen	Oxygen	Nitrogen	Carbon Monoxide	Carbon Dioxide	Methane	Ethane	Propane	Propylene	i-Butane	n-Butane	Butylene	i-Pentane	n-Pentane	n-Hexane and C6+	Property Calculations: Flare Gas Lower Flamibility Limit	Net Heating Value	Molecular Weight	NFVvg-LFL	Calc Net Heating Value Limit	Maximum Velocity	ZTOF: ZTOF Stage Estimate	ZTOF Flow Estimate	ZTOF Flow Estimate	ZTOF Steam Flow Estimate	ZTOF Steam Flow Estimate	Net Heating Value	Actual Velocity	SO2 Emissions	36Inch Flare: 36inch Flare Active Estimate	36inch Flow Estimate	36inch Flow Estimate	36inch Steam Flow Estimate	36inch Steam Flow Estimate	Net Heating Value	Actual Velocity	SO2 Emissions	24Inch Flare: 24inch Flare Active Estimate	24inch Flow Estimate	24inch Flow Estimate	24inch Steam Flow Estimate	24inch Steam Flow Estimate	Net Heating Value	Actual Velocity	SO2 Emissions	Pit Flare: Pit Flare Active Estimate	Pit Flare Scenario	Pit Flow Estimate	Pit Flow Estimate	Net Heating Value	Actual Velocity	SO2 Emissions	Total SO2 Emissions
	20_PI947	03PC105(	14_FR631	14_FI631(	14_MI631(	98_TI401	98_TI401	98_TI401	98_FC40:	98_TI402	98_TI402	98_FC40:	14_TI1006																				LFLvg	NHVvg			NHVcz-limit		1					NHVcz			2.8					NHVcz			3								5.5							
	PSIG	%	KSCFH	KLB/HR	LB/LB-MOL	DEGF	DEGF	DEGF	%	DEGF	DEGF	%	DEGF	PSIA	Mol %	mol%	mol%	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %		BTU/SCF	lb/lbmol		BTU/SCF	ft/s		lb/hr	SCFH	lb/hr	SCFH	BTU/SCF	ft/s	kg/period		lb/hr	SCFH	lb/hr	SCFH	BTU/SCF	ft/s	kg/period		lb/hr	SCFH	lb/hr	SCFH	BTU/SCF	ft/s	kg/period			lb/hr	SCFH	BTU/SCF	ft/s	kg/period	kg/period
3/27/2025 3:30	1.03	100.00	36.66	5.03	45.94	771.27	712.68	729.97	-5.00	1082.01	1120.60	-5.00	29.79	0.08	0.51	0.51	0.00	45.00	0.00	6.55	0.00	0.80	35.47	2.60	2.09	0.00	1.94	1.63	0.00	1.28	0.60	1.04	0.04	1167.88	15.07	47.89	340.03	400.00	1.00	4529	114043	4193	88326	661	0.06	10.85	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								10.85
3/27/2025 3:45	1.03	100.00	37.97	4.60	47.34	773.39	704.37	723.36	-5.00	1089.81	1111.95	-5.00	30.32	0.08	0.52	0.51	0.00	44.99	0.00	6.55	0.00	0.80	35.46	2.60	2.09	0.00	1.94	1.63	0.00	1.28	0.60	1.04	0.04	1167.75	15.07	47.89	340.03	400.00	1.00	4529	114040	4193	88326	661	0.06	10.85	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								10.85
3/27/2025 4:00	1.05	100.00	47.13	5.10	46.76	765.01	689.64	725.88	-5.00	1102.55	1089.46	-5.00	31.24	0.09	0.54	0.51	0.00	44.99	0.00	6.55	0.00	0.80	35.46	2.60	2.09	0.00	1.94	1.63	0.00	1.28	0.60	1.04	0.04	1167.53	15.07	47.89	340.03	400.00	1.00	4529	114036	4193	88326	661	0.06	10.85	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								10.85
3/27/2025 4:15	1.05	100.00	43.17	4.60	46.14	765.68	685.27	720.92	-5.00	1106.74	1077.86	-5.00	30.80	0.08	0.53	0.51	0.00	44.99	0.00	6.55	0.00	0.80	35.46	2.60	2.09	0.00	1.94	1.63	0.00	1.28	0.60	1.04	0.04	1167.64	15.07	47.89	340.03	400.00	1.00	4529	114038	4193	88326	661	0.06	10.85	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								10.85
3/27/2025 4:30	1.06	100.00	40.44	4.87	46.80	769.24	697.74	719.29	-5.00	1102.78	1078.84	-5.00	30.39	0.08	0.52	0.51	0.00	44.99	0.00	6.55	0.00	0.80	35.46	2.60	2.09	0.00	1.94	1.63	0.00	1.28	0.60	1.04	0.04	1167.74	15.07	47.89	340.03	400.00	1.00	4529	114040	4193	88326	661	0.06	10.85	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								10.85
3/27/2025 4:45	1.07	100.00	32.53	4.11	47.48	771.41	694.16	719.43	-5.00	1090.91	1088.86	-5.00	30.04	0.08	0.52	0.51	0.00	45.00	0.00	6.55	0.00	0.80	35.47	2.60	2.09	0.00	1.94	1.63	0.00	1.28	0.60	1.04	0.04	1167.83	15.07	47.89	340.03	400.00	1.00	4529	114042	4193	88326	661	0.06	10.85	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								10.85
3/27/2025 5:00	1.08	100.00	36.27	4.53	46.53	770.23	715.25	728.83	-5.00	1104.45	1089.68	-5.00	30.68	0.08	0.53	0.51	0.00	44.99	0.00	6.55	0.00	0.80	35.46	2.60	2.09	0.00	1.94	1.63	0.00	1.28	0.60	1.04	0.04	1167.68	15.07	47.89	340.03	400.00	1.00	4529	114039	4193	88326	661	0.06	10.85	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								10.85
3/27/2025 5:15	1.09	100.00	45.74	5.24	47.33	750.15	686.01	709.50	-5.00	1103.54	1053.76	-5.00	29.60	0.08	0.51	0.51	0.00	45.00	0.00	6.55	0.00	0.80	35.47	2.60	2.09	0.00	1.94	1.63	0.00	1.28	0.60	1.04	0.04	1167.95	15.07	47.89	340.03	400.00	1.00	4529	114044	4193	88326	661	0.06	10.85	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								10.85
3/27/2025 5:30	1.16	100.00	42.76	5.73	47.20	745.15	685.35	707.46	-5.00	1095.22	1048.78	-5.00	29.38	0.08	0.50	0.51	0.00	45.00	0.00	6.55	0.00	0.80	35.47	2.60	2.09	0.00	1.94	1.63	0.00	1.28	0.60	1.04	0.04	1168.03	15.07	47.89	340.03	400.00	1.00	4529	114046	4193	88326	661	0.06	10.85	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								10.85
3/27/2025 5:45	1.14	100.00	39.82	5.44	47.27	747.24	685.72	709.10	-5.00	1084.50	1054.87	-5.00	29.45	0.08	0.50	0.51	0.00	45.00	0.00	6.55	0.00	0.80	35.47	2.60	2.09	0.00	1.94	1.63	0.00	1.28	0.60	1.04	0.04	1168.01	15.07	47.89	340.03	400.00	1.00	4529	114045	4193	88326	661	0.06	10.85	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								10.85
3/27/2025 6:00	1.11	100.00	38.51	4.74	46.93	749.58	688.71	700.54	-5.00	1077.15	1047.03	-5.00	29.35	0.08	0.50	0.51	0.00	45.00	0.00	6.55	0.00	0.80	35.47	2.60	2.09	0.00	1.94	1.63	0.00	1.28	0.60	1.04	0.04	1168.02	15.07	47.89	340.03	400.00	1.00	4529	114046	4193	88326	661	0.06	10.85	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								10.85

Flare Sulphur Emissions

** Data reported below is ONLY covering the times the flares were actively flaring process gasses*

**The Flare Gas compositions are estimated based on the heat and material balance, and lab analysis of flare header samples and unit operations*

= Flare Not Active This Event

	Historian Data													Calculated Data																																																															
																		Flare Gas Composition															Property Calculations						ZTOF								36Inch Flare								24Inch Flare								Pit Flare							
	Flare Header Pressure	Flare Gas Compressor Spillback	Flare Flow Meter			36inch Pilots			36inch Steam OP	24inch Pilots		24inch Steam	Ambient Temperature	Water Vapour /Partial Pressure	Water	Hydrogen Sulphide	Sulphur Dioxide	Hydrogen	Oxygen	Nitrogen	Carbon Monoxide	Carbon Dioxide	Methane	Ethane	Propane	Propylene	i-Butane	n-Butane	Butylene	i-Pentane	n-Pentane	n-Hexane and C6+	Flare Gas Lower Flamibility Limit	Net Heating Value	Molecular Weight	NFVvg-LFL	Calc Net Heating Value Limit	Maximum Velocity	ZTOF Stage Estimate	ZTOF Flow Estimate	ZTOF Flow Estimate	ZTOF Steam Flow Estimate	ZTOF Steam Flow Estimate	Net Heating Value	Actual Velocity	SO2 Emissions	36inch Flare Active Estimate	36inch Flow Estimate	36inch Flow Estimate	36inch Steam Flow Estimate	36inch Steam Flow Estimate	Net Heating Value	Actual Velocity	SO2 Emissions	24inch Flare Active Estimate	24inch Flow Estimate	24inch Flow Estimate	24inch Steam Flow Estimate	24inch Steam Flow Estimate	Net Heating Value	Actual Velocity	SO2 Emissions	Pit Flare Active Estimate	Pit Flare Scenario	Pit Flow Estimate	Pit Flow Estimate	Net Heating Value	Actual Velocity	SO2 Emissions	Total SO2 Emissions
	20_PI947	03PC105(	14_FR631	14_FI631(	14_MI631(	98_TI401	98_TI401	98_TI401	98_FC40	98_TI402	98_TI402	98_FC40	14_TI1006																				LFLvg	NHVvg			NHVcz-limit		1					NHVcz			2.8					NHVcz			3								5.5							
	PSIG	%	KSCFH	KLB/HR	LB/LB-MOL	DEGF	DEGF	DEGF	%	DEGF	DEGF	%	DEGF	PSIA	Mol %	mol%	mol%	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %		BTU/SCF	lb/lbmol		BTU/SCF	ft/s		lb/hr	SCFH	lb/hr	SCFH	BTU/SCF	ft/s	kg/period		lb/hr	SCFH	lb/hr	SCFH	BTU/SCF	ft/s	kg/period		lb/hr	SCFH	lb/hr	SCFH	BTU/SCF	ft/s	kg/period			lb/hr	SCFH	BTU/SCF	ft/s	kg/period	kg/period
3/29/2025 0:15	1.51	100.00	48.47	3.69	38.37	794.29	731.51	703.14	0.00	1076.70	1053.24	-5.00	36.01	0.10	0.64	0.30	0.00	51.19	0.00	0.88	0.00	0.94	37.46	2.24	1.91	0.00	1.45	1.00	0.00	0.88	0.37	0.76	0.04	1183.02	12.41	47.69	338.62	400.00	2.00	10665	326260	12580	264979	654	0.17	18.32	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								18.32
3/29/2025 0:30	1.51	100.00	32.80	2.87	37.88	791.75	741.69	706.23	0.00	1081.19	1053.84	-5.00	35.95	0.10	0.64	0.30	0.00	51.19	0.00	0.88	0.00	0.94	37.46	2.24	1.91	0.00	1.45	1.00	0.00	0.88	0.37	0.76	0.04	1183.04	12.41	47.69	338.62	400.00	2.00	10688	326968	12580	264979	654	0.17	18.36	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								18.36
3/29/2025 0:45	1.51	100.00	40.46	4.00	37.90	784.04	741.21	701.78	0.00	1114.05	1043.12	-5.00	35.92	0.10	0.64	0.30	0.00	51.19	0.00	0.88	0.00	0.94	37.46	2.24	1.91	0.00	1.45	1.00	0.00	0.88	0.37	0.76	0.04	1183.05	12.41	47.69	338.62	400.00	2.00	10708	327563	12580	264979	655	0.17	18.39	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								18.39
3/29/2025 1:00	1.51	100.00	34.05	3.21	38.44	793.22	739.21	700.12	0.00	1074.91	1042.83	-5.00	35.85	0.10	0.64	0.30	0.00	51.19	0.00	0.88	0.00	0.94	37.46	2.24	1.91	0.00	1.45	1.00	0.00	0.88	0.37	0.76	0.04	1183.07	12.41	47.69	338.62	400.00	2.00	10707	327531	12580	264979	655	0.17	18.39	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								18.39
3/29/2025 1:15	1.52	100.00	36.58	2.78	38.30	797.58	731.15	693.21	0.00	1039.00	1073.87	-5.00	35.94	0.10	0.64	0.30	0.00	51.19	0.00	0.88	0.00	0.94	37.46	2.24	1.91	0.00	1.45	1.00	0.00	0.88	0.37	0.76	0.04	1183.05	12.41	47.69	338.62	400.00	2.00	10734	328357	12580	264979	656	0.17	18.44	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								18.44
3/29/2025 1:30	1.52	100.00	36.13	3.30	37.63	793.11	737.25	707.66	0.00	1097.02	1051.28	-5.00	35.94	0.10	0.64	0.30	0.00	51.19	0.00	0.88	0.00	0.94	37.46	2.24	1.91	0.00	1.45	1.00	0.00	0.88	0.37	0.76	0.04	1183.05	12.41	47.69	338.62	400.00	2.00	10753	328959	12580	264979	656	0.17	18.47	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								18.47
3/29/2025 1:45	1.52	100.00	21.34	3.18	37.80	753.10	746.46	686.03	0.00	1168.13	1041.05	-5.00	35.76	0.10	0.63	0.30	0.00	51.19	0.00	0.88	0.00	0.94	37.46	2.24	1.91	0.00	1.45	1.00	0.00	0.88	0.37	0.76	0.04	1183.10	12.41	47.69	338.62	400.00	2.00	10730	328251	12580	264979	656	0.17	18.43	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								18.43
3/29/2025 2:00	1.51	100.00	29.02	3.08	37.46	747.01	740.92	677.25	0.00	1153.24	1043.91	-5.00	35.66	0.10	0.63	0.30	0.00	51.19	0.00	0.88	0.00	0.94	37.46	2.24	1.91	0.00	1.45	1.00	0.00	0.88	0.37	0.76	0.04	1183.13	12.41	47.69	338.62	400.00	2.00	10691	327055	12580	264979	655	0.17	18.37	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								18.37
3/29/2025 2:15	1.51	100.00	26.47	3.66	37.38	759.25	735.47	688.07	0.00	1130.52	1035.19	-5.00	35.36	0.10	0.62	0.30	0.00	51.20	0.00	0.88	0.00	0.94	37.47	2.24	1.91	0.00	1.45	1.00	0.00	0.88	0.37	0.76	0.04	1183.21	12.41	47.69	338.62	400.00	2.00	10655	325969	12580	264979	654	0.17	18.31	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								18.31
3/29/2025 2:30	1.50	100.00	27.97	3.13	38.46	791.47	730.52	672.01	0.00	1015.11	1059.23	-5.00	35.61	0.10	0.63	0.30	0.00	51.19	0.00	0.88	0.00	0.94	37.46	2.24	1.91	0.00	1.45	1.00	0.00	0.88	0.37	0.76	0.04	1183.14	12.41	47.69	338.62	400.00	2.00	10591	324012	12580	264979	652	0.17	18.20	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								18.20
3/29/2025 2:45	1.50	100.00	25.43	3.30	37.10	797.38	732.45	669.15	0.00	1004.37	1087.53	-5.00	35.62	0.10	0.63	0.30	0.00	51.19	0.00	0.88	0.00	0.94	37.46	2.24	1.91	0.00	1.45	1.00	0.00	0.88	0.37	0.76	0.04	1183.13	12.41	47.69	338.62	400.00	2.00	10588	323903	12580	264979	652	0.17	18.19	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								18.19
3/29/2025 3:00	1.50	100.00	26.94	3.39	38.43	783.05	731.09	691.86	0.00	1142.36	1062.53	-5.00	35.16	0.10	0.62	0.30	0.00	51.20	0.00	0.88	0.00	0.94	37.47	2.24	1.91	0.00	1.45	1.00	0.00	0.88	0.37	0.76	0.04	1183.27	12.41	47.69	338.62	400.00	2.00	10597	324218	12580	264979	652	0.17	18.21	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								18.21

Flare Sulphur Emissions

** Data reported below is ONLY covering the times the flares were actively flaring process gasses*

**The Flare Gas compositions are estimated based on the heat and material balance, and lab analysis of flare header samples and unit operations*

(grey) = Flare Not Active This Event

	Historian Data													Calculated Data		Flare Gas Composition																	Property Calculations						ZTOF								36Inch Flare								24Inch Flare								Pit Flare							
	Flare Header Pressure	Flare Gas Compressor Spillback	Flare Flow Meter			36inch Pilots			36inch Steam OP	24inch Pilots		24inch Steam	Ambient Temperature	Water Vapour /Partial Pressure	Water	Hydrogen Sulphide	Sulphur Dioxide	Hydrogen	Oxygen	Nitrogen	Carbon Monoxide	Carbon Dioxide	Methane	Ethane	Propane	Propylene	i-Butane	n-Butane	Butylene	i-Pentane	n-Pentane	n-Hexane and C6+	Flare Gas Lower Flamibility Limit	Net Heating Value	Molecular Weight	NFVvg-LFL	Calc Net Heating Value Limit	Maximum Velocity	ZTOF Stage Estimate	ZTOF Flow Estimate	ZTOF Flow Estimate	ZTOF Steam Flow Estimate	ZTOF Steam Flow Estimate	Net Heating Value	Actual Velocity	SO2 Emissions	36inch Flare Active Estimate	36inch Flow Estimate	36inch Flow Estimate	36inch Steam Flow Estimate	36inch Steam Flow Estimate	Net Heating Value	Actual Velocity	SO2 Emissions	24inch Flare Active Estimate	24inch Flow Estimate	24inch Flow Estimate	24inch Steam Flow Estimate	24inch Steam Flow Estimate	Net Heating Value	Actual Velocity	SO2 Emissions	Pit Flare Active Estimate	Pit Flare Scenario	Pit Flow Estimate	Pit Flow Estimate	Net Heating Value	Actual Velocity	SO2 Emissions	Total SO2 Emissions
	20_PI947	03PC105(	14_FR631	14_FI631	14_MI631	98_TI401	98_TI401	98_TI401	98_FC40	98_TI402	98_TI402	98_FC40	14_TI1006																				LFLvg	NHVvg			NHVcz-limit		1					NHVcz			2.8					NHVcz			3								5.5							
	PSIG	%	KSCFH	KLB/HR	LB/LB-MOL	DEGF	DEGF	DEGF	%	DEGF	DEGF	%	DEGF	PSIA	Mol %	mol%	mol%	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %		BTU/SCF	lb/lbmol		BTU/SCF	ft/s		lb/hr	SCFH	lb/hr	SCFH	BTU/SCF	ft/s	kg/period		lb/hr	SCFH	lb/hr	SCFH	BTU/SCF	ft/s	kg/period		lb/hr	SCFH	lb/hr	SCFH	BTU/SCF	ft/s	kg/period			lb/hr	SCFH	BTU/SCF	ft/s	kg/period	kg/period
3/30/2025 21:00	1.23	100.00	35.59	3.64	36.04	697.76	735.20	745.87	-5.00	1028.54	1167.50	-5.00	37.79	0.11	0.76	0.30	0.00	45.63	0.00	5.61	0.00	0.97	38.32	2.46	1.51	0.00	1.46	0.99	0.00	0.88	0.36	0.76	0.04	1117.47	13.68	47.62	338.12	400.00	1.00	4529	125673	4193	88326	659	0.06	7.09	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.09
3/30/2025 21:15	1.24	100.00	33.98	2.92	35.69	706.20	750.58	754.23	-5.00	1031.30	1162.18	-5.00	37.85	0.11	0.76	0.30	0.00	45.63	0.00	5.61	0.00	0.97	38.32	2.46	1.51	0.00	1.46	0.99	0.00	0.88	0.36	0.76	0.04	1117.45	13.68	47.62	338.12	400.00	1.00	4529	125672	4193	88326	659	0.06	7.09	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.09
3/30/2025 21:30	1.24	100.00	20.79	2.27	35.42	717.32	746.18	748.23	-5.00	1030.22	1154.76	-5.00	37.83	0.11	0.76	0.30	0.00	45.63	0.00	5.61	0.00	0.97	38.32	2.46	1.51	0.00	1.46	0.99	0.00	0.88	0.36	0.76	0.04	1117.46	13.68	47.62	338.12	400.00	1.00	4529	125672	4193	88326	659	0.06	7.09	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.09
3/30/2025 21:45	1.24	100.00	32.57	2.75	35.26	722.20	756.59	758.81	-5.00	1032.36	1150.18	-5.00	37.77	0.11	0.76	0.30	0.00	45.63	0.00	5.61	0.00	0.97	38.32	2.46	1.51	0.00	1.46	0.99	0.00	0.88	0.36	0.76	0.04	1117.48	13.68	47.62	338.12	400.00	1.00	4529	125673	4193	88326	659	0.06	7.09	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.09
3/30/2025 22:00	1.24	100.00	34.07	2.96	36.10	727.38	760.75	759.64	-5.00	1033.29	1145.38	-5.00	37.88	0.11	0.76	0.30	0.00	45.63	0.00	5.61	0.00	0.97	38.32	2.46	1.51	0.00	1.46	0.99	0.00	0.88	0.36	0.76	0.04	1117.44	13.68	47.62	338.12	400.00	1.00	4529	125672	4193	88326	659	0.06	7.09	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.09
3/30/2025 22:15	1.24	100.00	35.96	2.66	35.37	704.22	756.69	738.83	-5.00	1028.99	1133.51	-5.00	37.85	0.11	0.76	0.30	0.00	45.63	0.00	5.61	0.00	0.97	38.32	2.46	1.51	0.00	1.46	0.99	0.00	0.88	0.36	0.76	0.04	1117.45	13.68	47.62	338.12	400.00	1.00	4529	125672	4193	88326	659	0.06	7.09	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.09
3/30/2025 22:30	1.24	100.00	30.49	2.44	35.06	724.81	761.05	753.32	-5.00	1033.68	1139.24	-5.00	37.92	0.11	0.76	0.30	0.00	45.63	0.00	5.61	0.00	0.97	38.32	2.46	1.51	0.00	1.46	0.99	0.00	0.88	0.36	0.76	0.04	1117.43	13.68	47.62	338.12	400.00	1.00	4529	125671	4193	88326	659	0.06	7.09	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.09
3/30/2025 22:45	1.24	100.00	24.74	1.88	35.51	736.23	755.76	748.55	-5.00	1031.58	1155.68	-5.00	38.11	0.11	0.77	0.30	0.00	45.63	0.00	5.61	0.00	0.97	38.32	2.46	1.51	0.00	1.46	0.99	0.00	0.88	0.36	0.76	0.04	1117.37	13.68	47.62	338.12	400.00	1.00	4529	125669	4193	88326	659	0.06	7.09	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.09
3/30/2025 23:00	1.24	100.00	17.35	2.48	34.62	733.39	757.82	756.37	-5.00	1034.85	1145.33	-5.00	38.06	0.11	0.77	0.30	0.00	45.63	0.00	5.61	0.00	0.97	38.32	2.46	1.51	0.00	1.46	0.99	0.00	0.88	0.36	0.76	0.04	1117.38	13.68	47.62	338.12	400.00	1.00	4529	125669	4193	88326	659	0.06	7.09	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.09
3/30/2025 23:15	1.24	100.00	28.37	2.08	34.18	726.68	761.47	757.05	-5.00	1033.95	1142.34	-5.00	38.05	0.11	0.77	0.30	0.00	45.63	0.00	5.61	0.00	0.97	38.32	2.46	1.51	0.00	1.46	0.99	0.00	0.88	0.36	0.76	0.04	1117.39	13.68	47.62	338.12	400.00	1.00	4529	125669	4193	88326	659	0.06	7.09	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.09
3/30/2025 23:30	1.24	100.00	22.63	2.41	34.12	702.81	763.02	755.42	-5.00	1033.36	1148.80	-5.00	38.14	0.11	0.77	0.30	0.00	45.63	0.00	5.61	0.00	0.97	38.32	2.46	1.51	0.00	1.46	0.99	0.00	0.88	0.36	0.76	0.04	1117.36	13.68	47.62	338.12	400.00	1.00	4529	125668	4193	88326	659	0.06	7.09	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.09
3/30/2025 23:45	1.24	100.00	21.59	1.99	34.34	700.91	747.76	719.18	-5.00	1061.18	1106.23	-5.00	38.49	0.11	0.78	0.30	0.00	45.62	0.00	5.61	0.00	0.97	38.32	2.46	1.51	0.00	1.46	0.99	0.00	0.88	0.36	0.76	0.04	1117.24	13.68	47.62	338.12	400.00	1.00	4529	125664	4193	88326	659	0.06	7.09	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.09
3/31/2025 0:00	1.24	100.00	24.84	1.89	34.76	677.68	763.49	709.42	-5.00	1038.46	1132.60	-5.00	38.39	0.11	0.78	0.28	0.00	51.88	0.00	0.56	0.00	0.95	39.99	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1131.29	11.14	47.44	336.83	400.00	1.00	4529	154310	4193	88326	721	0.07	8.02	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.02
3/31/2025 0:15	1.24	100.00	16.48	1.76	34.38	689.74	761.86	718.93	-5.00	1024.38	1166.53	-5.00	38.66	0.12	0.79	0.28	0.00	51.88	0.00	0.56	0.00	0.95	39.98	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1131.20	11.14	47.44	336.83	400.00	1.00	4529	154302	4193	88326	721	0.07	8.02	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.02
3/31/2025 0:30	1.24	100.00	28.45	2.27	33.69	672.58	756.66	744.41	-5.00	1034.00	1169.54	-5.00	38.69	0.12	0.79	0.28	0.00	51.88	0.00	0.56	0.00	0.95	39.98	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1131.19	11.14	47.44	336.83	400.00	1.00	4529	154301	4193	88326	721	0.07	8.02	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.02
3/31/2025 0:45	1.24	100.00	36.68	2.00	34.04	695.22	746.46	741.31	-5.00	1041.71	1175.56	-5.00	38.65	0.12	0.79	0.28	0.00	51.88	0.00	0.56	0.00	0.95	39.98	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1131.20	11.14	47.44	336.83	400.00	1.00	4529	154302	4193	88326	721	0.07	8.02	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.02
3/31/2025 1:00	1.24	100.00	38.68	2.82	34.02	682.73	746.71	754.93	-5.00	1034.28	1172.25	-5.00	38.52	0.11	0.78	0.28	0.00	51.88	0.00	0.56	0.00	0.95	39.99	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1131.25	11.14	47.44	336.83	400.00	1.00	4529	154306	4193	88326	721	0.07	8.02	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.02
3/31/2025 1:15	1.24	100.00	29.32	2.30	33.83	678.43	760.11	754.34	-5.00	1036.27	1173.76	-5.00	38.54	0.11	0.78	0.28	0.00	51.88	0.00	0.56	0.00	0.95	39.99	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1131.24	11.14	47.44	336.83	400.00	1.00	4529	154306	4193	88326	721	0.07	8.02	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.02
3/31/2025 1:30	1.24	100.00	38.96	2.65	33.86	767.81	771.59	666.24	-5.00	1045.67	1161.79	-5.00	38.84	0.12	0.79	0.28	0.00	51.87	0.00	0.56	0.00	0.95	39.98	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1131.14	11.14	47.44	336.83	400.00	1.00	4529	154297	4193	88326	721	0.07	8.02	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.02
3/31/2025 1:45	1.24	100.00	30.46	2.26	34.28	761.09	778.14	678.55	-5.00	1061.66	1148.56	-5.00	39.50	0.12	0.81	0.28	0.00	51.86	0.00	0.56	0.00	0.95	39.97	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1130.90	11.14	47.44	336.83	400.00	1.00	4529	154276	4193	88326	721	0.07	8.01	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.01
3/31/2025 2:00	1.24	100.00	28.33	2.00	34.19	773.69	769.73	726.83	-5.00	1099.10	1183.51	-5.00	39.76	0.12	0.82	0.28	0.00	51.86	0.00	0.56	0.00	0.95	39.97	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1130.81	11.14	47.44	336.83	400.00	1.00	4529	154268	4193	88326	721	0.07	8.01	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.01
3/31/2025 2:15	1.25	100.00	31.12	2.26	34.31	793.52	797.41	737.66	-5.00	1097.79	1177.62	-5.00	39.68	0.12	0.82	0.28	0.00	51.86	0.00	0.56	0.00	0.95	39.97	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1130.84	11.14	47.44	336.83	400.00	1.00	4529	154271	4193	88326	721	0.07	8.01	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.01
3/31/2025 2:30	1.24	100.00	28.72	2.94	34.27	789.20	740.40	722.08	-5.00	1086.20	1122.52	-5.00	39.79	0.12	0.82	0.28	0.00	51.86	0.00	0.56	0.00	0.95	39.97	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1130.80	11.14	47.44	336.83	400.00	1.00	4529	154267	4193	88326	721	0.07	8.01	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.01
3/31/2025 2:45	1.25	100.00	20.91	2.75	34.53	740.05	756.76	716.82	-5.00	1071.34	1138.12	-5.00	39.89	0.12	0.82	0.28	0.00	51.86	0.00	0.56	0.00	0.95	39.97	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1130.76	11.14	47.44	336.83	400.00	1.00	4529	154264	4193	88326	721	0.07	8.01	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.01
3/31/2025 3:00	1.25	100.00	23.51	2.39	34.15	741.08	789.98	719.15	-5.00	1092.21	1181.67	-5.00	40.19	0.12	0.83	0.28	0.00	51.85	0.00	0.56	0.00	0.95	39.97	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1130.65	11.14	47.44	336.83	400.00	1.00	4529	154254	4193	88326	721	0.07	8.01	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.01
3/31/2025 3:15	1.25	100.00	20.58	1.79	34.38	732.35	800.86	727.03	-5.00	1085.41	1180.35	-5.00	40.31	0.12	0.84	0.28	0.00	51.85	0.00	0.56	0.00	0.95	39.96	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1130.61	11.14	47.44	336.83	400.00	1.00	4529	154251	4193	88326	721	0.07	8.01	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.01
3/31/2025 3:30	1.25	100.00	16.15	2.63	34.38	780.31	795.44	719.73	-5.00	1091.59	1186.04	-5.00	40.67	0.12	0.85	0.28	0.00	51.84	0.00	0.56	0.00	0.95	39.96	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1130.48	11.15	47.44	336.83	400.00	1.00	4529	154239	4193	88326	721	0.07	8.01	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.01
3/31/2025 3:45	1.25	100.00	27.06	3.03	33.59	756.78	748.08	741.55	-5.00	1072.12	1173.24	-5.00	40.04	0.12	0.83	0.28	0.00	51.85	0.00	0.56	0.00	0.95	39.97	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1130.71	11.14	47.44	336.83	400.00	1.00	4529	154259	4193	88326	721	0.07	8.01	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.01
3/31/2025 4:00	1.25	100.00	22.62	2.05	34.89	721.86	783.30	750.67	-5.00	1081.04	1177.51	-5.00	40.10	0.12	0.83	0.28	0.00	51.85	0.00	0.56	0.00	0.95	39.97	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1130.69	11.14	47.44	336.83	400.00	1.00	4529	154257	4193	88326	721	0.07	8.01	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.01
3/31/2025 4:15	1.26	100.00	36.59	3.15	33.14	762.86	804.54	729.91	-5.00	1097.13	1200.35	-5.00	40.68	0.12	0.85	0.28	0.00	51.84	0.00	0.56	0.00	0.95	39.96	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1130.47	11.15	47.44	336.83	400.00	1.00	4529	154238	4193	88326	721	0.07	8.01	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.01
3/31/2025 4:30	1.26	100.00	43.70	2.37	34.13	801.46	800.54	736.31	-5.00	1097.33	1198.99	-5.00	42.40	0.13	0.91	0.28	0.00	51.81	0.00	0.56	0.00	0.95	39.94	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1129.81	11.15	47.44	336.83	400.00	1.00	4529	154180	4193	88326	720	0.07	8.00	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.00
3/31/2025 4:45	1.26	100.00	18.46	1.92	34.12	771.95	775.06	723.83	-5.00	1095.31	1186.82	-5.00	45.20	0.15	1.01	0.28	0.00	51.76	0.00	0.56	0.00	0.95	39.89	2.07	0.65	0.00	0.83	0.56	0.00	0.51	0.22	0.71	0.04	1128.66	11.16	47.44	336.83	400.00	1.00	4529	154079	4193	88326	719	0.07	7.99	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.99
3/31/2025 5:00	1.26	100.00	22.45	2.80	34.37	770.77	787.81	668.88	-5.00	1062.19	1177.81	-5.00	42.59	0.13	0.92	0.28	0.00	51.81	0.00	0.56	0.00	0.95	39.93	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1129.73	11.15	47.44	336.83	400.00	1.00	4529	154173	4193	88326	720	0.07	8.00	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.00
3/31/2025 5:15	1.26	100.00	19.79	2.76	33.76	785.88	763.64	636.40	-5.00	1040.22	1162.92	-5.00	41.43	0.13	0.88	0.28	0.00	51.83	0.00	0.56	0.00	0.95	39.95	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1130.19	11.15	47.44	336.83	400.00	1.00	4529	154214	4193	88326	721	0.07	8.00	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.00
3/31/2025 5:30	1.26	100.00	38.86	2.53	34.48	782.49	762.90	684.60	-5.00	1068.23	1180.65	-5.00	40.88	0.13	0.86	0.28	0.00	51.84	0.00	0.56	0.00	0.95	39.96	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1130.40	11.15	47.44	336.83	400.00	1.00	4529	154232	4193	88326	721	0.07	8.01	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.01
3/31/2025 5:45	1.26	100.00	25.56	2.19	34.52	780.65	778.66	721.94	-5.00	1098.34	1184.48	-5.00	42.48	0.13	0.91	0.28	0.00	51.81	0.00	0.56	0.00	0.95	39.93	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1129.79	11.15	47.44	336.83	400.00	1.00	4529	154178	4193	88326	720	0.07	8.00	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.00
3/31/2025 6:00	1.26	100.00	12.51	2.12	35.00	770.48	788.32	657.86	-5.00	1052.22	1158.77	-5.00	43.23	0.14	0.94	0.28	0.00	51.80	0.00	0.56	0.00	0.95	39.92	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1129.48	11.15	47.44	336.83	400.00	1.00	4529	154151	4193	88326	720	0.07	8.00	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.00
3/31/2025 6:15	1.26	100.00	31.89	2.27	34.62	740.66	769.65	688.07	-5.00	1018.86	1136.57	-5.00	45.81	0.15	1.04	0.28	0.00	51.75	0.00	0.56	0.00	0.95	39.89	2.07	0.65	0.00	0.83	0.56	0.00	0.51	0.22	0.71	0.04	1128.39	11.16	47.44	336.83	400.00	1.00	4529	154055	4193	88326	719	0.07	7.98	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.98
3/31/2025 6:30	1.26	100.00	27.06	2.77	35.01	751.36	788.91	701.60	-5.00	1076.85	1176.98	-5.00	45.27	0.15	1.01	0.28	0.00	51.76	0.00	0.56	0.00	0.95	39.89	2.07	0.65	0.00	0.83	0.56	0.00	0.51	0.22	0.71	0.04	1128.63	11.16	47.44	336.83	400.00	1.00	4529	154076	4193	88326	719	0.07	7.99	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.99
3/31/2025 6:45	1.26	100.00	28.68	2.19	34.57	747.15	800.26	674.75	-5.00	1053.45	1164.40	-5.00	45.95	0.15	1.04	0.28	0.00	51.74	0.00	0.56	0.00	0.95	39.88	2.07	0.65	0.00	0.83	0.56	0.00	0.51	0.22	0.71	0.04	1128.34	11.16	47.44	336.83	400.00	1.00	4529	154050	4193	88326	719	0.07	7.98	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.98
3/31/2025 7:00	1.36	100.00	27.39	2.45	34.48	743.39	801.54	641.66	-5.00	1027.33	1142.96	-5.00	44.93	0.15	1.00	0.28	0.00	51.76	0.00	0.56	0.00	0.95	39.90	2.07	0.65	0.00	0.83	0.56	0.00	0.51	0.22	0.71	0.04	1128.78	11.16	47.44	336.83	400.00	1.00	4529	154089	4193	88326	719	0.07	7.99	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.99
3/31/2025 7:15	1.26	100.00	16.46	2.09	34.16	746.73	774.23	688.23	-5.00	1043.86	1154.07	-5.00	46.11	0.15	1.05	0.28	0.00	51.74	0.00	0.56	0.00	0.95	39.88	2.07	0.65	0.00	0.83	0.56	0.00	0.51	0.22	0.71	0.04	1128.27	11.16	47.44	336.83	400.00	1.00	4529	154044	4193	88326	719	0.07	7.98	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.98
3/31/2025 7:30	1.26	100.00	24.96	2.19	34.10	735.74	731.55	694.36	-5.00	1036.03	1093.22	-5.00	48.41	0.17	1.14	0.28	0.00	51.69	0.00	0.56	0.00	0.94	39.84	2.07	0.65	0.00	0.83	0.56	0.00	0.51	0.22	0.71	0.04	1127.20	11.17	47.44	336.83	400.00	1.00	4529	153949	4193	88326	718	0.07	7.97	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.97
3/31/2025 7:45	1.26	100.00	16.49	2.20	33.87	727.14	730.73	702.64	-5.00	985.93	1045.46	-5.00	52.44	0.19	1.33	0.28	0.00	51.60	0.00	0.56	0.00	0.94	39.77	2.07	0.65	0.00	0.83	0.56	0.00	0.51	0.22	0.71	0.04	1125.14	11.18	47.44	336.83	400.00	1.00	4529	153765	4193	88326	717	0.07	7.95	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.95
3/31/2025 8:00	1.26	100.00	54.84	2.64	34.05	733.10	736.86	708.65	-5.00	969.17	1033.74	-5.00	54.04	0.21	1.41	0.28	0.00	51.56	0.00	0.56	0.00	0.94	39.74	2.07	0.65	0.00	0.83	0.56	0.00	0.51	0.22	0.71	0.04	1124.25	11.19	47.44	336.83	400.00	1.00	4529	153686	4193	88326	716	0.07	7.94	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.94
3/31/2025 8:15	1.25	100.00	36.01	2.25	33.53	734.83	737.83	707.26	-5.00	980.95	1029.70	-5.00	54.21	0.21	1.42	0.28	0.00	51.55	0.00	0.56	0.00	0.94	39.74	2.07	0.65	0.00	0.83	0.56	0.00	0.51	0.22	0.71	0.04	1124.16	11.19	47.44	336.83	400.00	1.00	4529	153677	4193	88326	716	0.07	7.93	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.93
3/31/2025 8:30	1.25	100.00	-8036.14	1.96	19.34	741.71	736.23	700.35	-5.00	1046.55	1011.23	-5.00	52.79	0.20	1.35	0.28	0.00	51.59	0.00	0.56	0.00	0.94	39.76	2.07	0.65	0.00	0.83	0.56	0.00	0.51	0.22	0.71	0.04	1124.95	11.18	47.44	336.83	400.00	1.00	4529	153748	4193	88326	716	0.07	7.94	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.94
3/31/2025 8:45	1.25	100.00	20.55	1.77	34.03	731.87	728.51	700.99	-5.00	1053.94	990.77	-5.00	50.97	0.18	1.26	0.28	0.00	51.63	0.00	0.56	0.00	0.94	39.80	2.07	0.65	0.00	0.83	0.56	0.00	0.51	0.22	0.71	0.04	1125.93	11.17	47.44	336.83	400.00	1.00	4529	153836	4193	88326	717	0.07	7.96	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.96
3/31/2025 9:00	1.25	100.00	13.25	2.06	33.32	729.27	741.08	706.98	-5.00	1059.83	991.01	-5.00	50.08	0.18	1.22	0.28	0.00	51.66	0.00	0.56	0.00	0.94	39.81	2.07	0.65	0.00	0.83	0.56	0.00	0.51	0.22	0.71	0.04	1126.38	11.17	47.44	336.83	400.00	1.00	4529	153877	4193	88326	718	0.07	7.96	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.96
3/31/2025 9:15	1.25	100.00	29.43	2.34	33.85	737.45	734.18	711.41	-5.00	1067.79	989.68	-5.00	50.00	0.18	1.21	0.28	0.00	51.66	0.00	0.56	0.00	0.94	39.82	2.07	0.65	0.00	0.83	0.56	0.00	0.51	0.22	0.71	0.04	1126.42	11.17	47.44	336.83	400.00	1.00	4529	153880	4193	88326	718	0.07	7.96	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.96
3/31/2025 9:30	1.25	100.00	34.15	2.25	34.10	749.09	722.44	715.24	-5.00	1086.98	993.65	-5.00	50.86	0.18	1.25	0.28	0.00	51.64	0.00	0.56	0.00	0.94	39.80	2.07	0.65	0.00	0.83	0.56	0.00	0.51	0.22	0.71	0.04	1125.98	11.17	47.44	336.83	400.00	1.00	4529	153841	4193	88326	717	0.07	7.96	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.96
3/31/2025 9:45	1.25	100.00	17.89	2.16	34.00	765.18	736.03	717.56	-5.00	1083.09	1013.30	-5.00	52.76	0.20	1.34	0.28	0.00	51.59	0.00	0.56	0.00	0.94	39.76	2.07	0.65	0.00	0.83	0.56	0.00	0.51	0.22	0.71	0.04	1124.97	11.18	47.44	336.83	400.00	1.00	4529	153750	4193	88326	716	0.07	7.94	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.94
3/31/2025 10:00	1.25	100.00	21.55	2.09	33.92	759.53	754.19	712.84	-5.00	1079.99	997.70	-5.00	53.18	0.20	1.36	0.28	0.00	51.58	0.00	0.56	0.00	0.94	39.76	2.07	0.65	0.00	0.83	0.56	0.00	0.51	0.22	0.71	0.04	1124.74	11.18	47.44	336.83	400.00	1.00	4529	153729	4193	88326	716	0.07	7.94	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.94
3/31/2025 10:15	1.24	100.00	22.27	1.84	33.66	755.39	758.12	707.97	-5.00	1075.03	991.85	-5.00	53.17	0.20	1.36	0.28	0.00	51.58	0.00	0.56	0.00	0.94	39.76	2.07	0.65	0.00	0.83	0.56	0.00	0.51	0.22	0.71	0.04	1124.74	11.18	47.44	336.83	400.00	1.00	4529	153730	4193	88326	716	0.07	7.94	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.94
3/31/2025 10:30	1.24	100.00	23.19	1.91	33.28	748.06	740.57	707.66	-5.00	1086.47	994.60	-5.00	52.73	0.20	1.34	0.28	0.00	51.59	0.00	0.56	0.00	0.94	39.76	2.07	0.65	0.00	0.83	0.56	0.00	0.51	0.22	0.71	0.04	1124.99	11.18	47.44	336.83	400.00	1.00	4529	153752	4193	88326	716	0.07	7.94	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.94
3/31/2025 10:45	1.24	100.00	22.86	2.56	34.23	750.33	724.56	706.55	-5.00	1081.76	1004.62	-5.00	52.27	0.19	1.32	0.28	0.00	51.60	0.00	0.56	0.00	0.94	39.77	2.07	0.65	0.00	0.83	0.56	0.00	0.51	0.22	0.71	0.04	1125.24	11.18	47.44	336.83	400.00	1.00	4529	153774	4193	88326	717	0.07	7.95	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.95
3/31/2025 11:00	1.24	100.00	12.10	2.43	33.93	739.75	733.33	706.28	-5.00	1028.61	988.53	-5.00	51.00	0.18	1.26	0.28	0.00	51.63	0.00	0.56	0.00	0.94	39.80	2.07	0.65	0.00	0.83	0.56	0.00	0.51	0.22	0.71	0.04	1125.91	11.17	47.44	336.83	400.00	1.00	4529	153834	4193	88326	717	0.07	7.95	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.95
3/31/2025 11:15	1.23	100.00	27.46	1.99	34.02	730.39	741.45	707.18	-5.00	1018.77	984.34	-5.00	50.02	0.18	1.21	0.28	0.00	51.66	0.00	0.56	0.00	0.94	39.82	2.07	0.65	0.00	0.83	0.56	0.00	0.51	0.22	0.71	0.04	1126.41	11.17	47.44	336.83	400.00	1.00	4529	153879	4193	88326	718	0.07	7.96	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.96
3/31/2025 11:30	1.23	100.00	28.06	2.16	33.72	728.45	750.12	705.79	-5.00	1039.96	989.89	-5.00	49.59	0.18	1.19	0.28	0.00	51.67	0.00	0.56	0.00	0.94	39.82	2.07	0.65	0.00	0.83	0.56	0.00	0.51	0.22	0.71	0.04	1126.63	11.17	47.44	336.83	400.00	1.00	4529	153898	4193	88326	718	0.07	7.96	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.96
3/31/2025 11:45	1.23	100.00	13.86	2.03	34.21	727.23	753.57	706.98	-5.00	1028.07	995.87	-5.00	49.14	0.17	1.17	0.28	0.00	51.68	0.00	0.56	0.00	0.94	39.83	2.07	0.65	0.00	0.83	0.56	0.00	0.51	0.22	0.71	0.04	1126.85	11.17	47.44	336.83	400.00	1.00	4529	153918	4193	88326	718	0.07	7.97	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.97
3/31/2025 12:00	1.23	100.00	18.26	1.68	34.31	711.28	768.46	706.97	-5.00	991.08	998.23	-5.00	47.96	0.16	1.12	0.28	0.00	51.70	0.00	0.56	0.00	0.94	39.85	2.07	0.65	0.00	0.83	0.56	0.00	0.51	0.22	0.71	0.04	1127.41	11.16	47.44	336.83	400.00	1.00	4529	153968	4193	88326	718	0.07	7.97	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.97
3/31/2025 12:15	1.23	100.00	22.94	1.92	33.17	719.27	769.21	709.83	-5.00	1025.49	995.76	-5.00	47.31	0.16	1.10	0.28	0.00	51.72	0.00	0.56	0.00	0.94	39.86	2.07	0.65	0.00	0.83	0.56	0.00	0.51	0.22	0.71	0.04	1127.72	11.16	47.44	336.83	400.00	1.00	4529	153995	4193	88326	719	0.07	7.98	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.98
3/31/2025 12:30	1.22	100.00	14.61	1.77	33.93	718.22	761.74	707.93	-5.00	1010.07	990.85	-5.00	46.96	0.16	1.08	0.28	0.00	51.72	0.00	0.56	0.00	0.94	39.87	2.07	0.65	0.00	0.83	0.56	0.00	0.51	0.22	0.71	0.04	1127.88	11.16	47.44	336.83	400.00	1.00	4529	154010	4193	88326	719	0.07	7.98	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.98
3/31/2025 12:45	1.22	100.00	12.31	1.69	32.98	718.15	764.39	713.06	-5.00	1019.55	987.73	-5.00	46.87	0.16	1.08	0.28	0.00	51.73	0.00	0.56	0.00	0.94	39.87	2.07	0.65	0.00	0.83	0.56	0.00	0.51	0.22	0.71	0.04	1127.92	11.16	47.44	336.83	400.00	1.00	4529	154013	4193	88326	719	0.07	7.98	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.98
3/31/2025 13:00	1.22	100.00	27.87	1.97	33.50	723.76	752.84	709.01	-5.00	1047.65	982.36	-5.00	47.83	0.16	1.12	0.28	0.00	51.70	0.00	0.56	0.00	0.94	39.85	2.07	0.65	0.00	0.83	0.56	0.00	0.51	0.22	0.71	0.04	1127.47	11.16	47.44	336.83	400.00	1.00	4529	153973	4193	88326	718	0.07	7.97	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.97
3/31/2025 13:15	1.22	100.00	20.42	2.11	34.22	721.77	760.03	704.21	-5.00	1016.38	1001.04	-5.00	48.30	0.17	1.14	0.28	0.00	51.69	0.00	0.56	0.00	0.94	39.84	2.07	0.65	0.00	0.83	0.56	0.00	0.51	0.22	0.71	0.04	1127.25	11.17	47.44	336.83	400.00	1.00	4529	153953	4193	88326	718	0.07	7.97	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.97
3/31/2025 13:30	1.22	100.00	26.78	2.24	34.19	727.10	743.22	693.78	-5.00	1014.13	968.44	-5.00	49.65	0.18	1.20	0.28	0.00	51.66	0.00	0.56	0.00	0.94	39.82	2.07	0.65	0.00	0.83	0.56	0.00	0.51	0.22	0.71	0.04	1126.59	11.17	47.44	336.83	400.00	1.00	4529	153895	4193	88326	718	0.07	7.96	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.96
3/31/2025 13:45	1.22	100.00	60.14	2.92	33.14	725.17	769.22	702.37	-5.00	1043.35	972.91	-5.00	48.07	0.17	1.13	0.28	0.00	51.70	0.00	0.56	0.00	0.94	39.85	2.07	0.65	0.00	0.83	0.56	0.00	0.51	0.22	0.71	0.04	1127.35	11.17	47.44	336.83	400.00	1.00	4529	153963	4193	88326	718	0.07	7.97	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.97
3/31/2025 14:00	1.22	100.00	22.82	2.48	33.50	743.81	760.98	700.77	-5.00	1067.82	982.06	-5.00	48.16	0.17	1.13	0.28	0.00	51.70	0.00	0.56	0.00	0.94	39.85	2.07	0.65	0.00	0.83	0.56	0.00	0.51	0.22	0.71	0.04	1127.32	11.17	47.44	336.83	400.00	1.00	4529	153960	4193	88326	718	0.07	7.97	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.97
3/31/2025 14:15	1.21	100.00	16.06	1.94	33.66	748.76	737.79	705.84	-5.00	1064.91	989.62	-5.00	47.43	0.16	1.10	0.28	0.00	51.71	0.00	0.56	0.00	0.94	39.86	2.07	0.65	0.00	0.83	0.56	0.00	0.51	0.22	0.71	0.04	1127.66	11.16	47.44	336.83	400.00	1.00	4529	153990	4193	88326	719	0.07	7.98	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.98
3/31/2025 14:30	1.22	100.00	29.58	2.14	33.42	748.75	736.98	711.58	-5.00	1054.13	986.26	-5.00	47.60	0.16	1.11	0.28	0.00	51.71	0.00	0.56	0.00	0.94	39.86	2.07	0.65	0.00	0.83	0.56	0.00	0.51	0.22	0.71	0.04	1127.58	11.16	47.44	336.83	400.00	1.00	4529	153983	4193	88326	718	0.07	7.97	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.97
3/31/2025 14:45	1.21	100.00	19.68	1.79	33.64	740.01	752.60	713.46	-5.00	1056.42	986.94	-5.00	46.05	0.15	1.05	0.28	0.00	51.74	0.00	0.56	0.00	0.95	39.88	2.07	0.65	0.00	0.83	0.56	0.00	0.51	0.22	0.71	0.04	1128.29	11.16	47.44	336.83	400.00	1.00	4529	154045	4193	88326	719	0.07	7.98	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.98
3/31/2025 15:00	1.21	100.00	28.73	2.36	33.96	745.25	745.80	717.74	-5.00	1014.83	986.16	-5.00	45.47	0.15	1.02	0.28	0.00	51.75	0.00	0.56	0.00	0.95	39.89	2.07	0.65	0.00	0.83	0.56	0.00	0.51	0.22	0.71	0.04	1128.54	11.16	47.44	336.83	400.00	1.00	4529	154068	4193	88326	719	0.07	7.99	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.99
3/31/2025 15:15	1.21	100.00	11.37	1.97	33.88	738.54	756.81	721.57	-5.00	1052.95	988.62	-5.00	44.86	0.15	1.00	0.28	0.00	51.77	0.00	0.56	0.00	0.95	39.90	2.07	0.65	0.00	0.83	0.56	0.00	0.51	0.22	0.71	0.04	1128.81	11.16	47.44	336.83	400.00	1.00	4529	154091	4193	88326	719	0.07	7.99	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.99
3/31/2025 15:30	1.20	100.00	19.69	2.31	33.83	746.44	757.73	719.25	-5.00	1052.30	992.75	-5.00	44.51	0.14	0.99	0.28	0.00	51.77	0.00	0.56	0.00	0.95	39.91	2.07	0.65	0.00	0.83	0.56	0.00	0.51	0.22	0.71	0.04	1128.96	11.16	47.44	336.83	400.00	1.00	4529	154105	4193	88326	720	0.07	7.99	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								7.99
3/31/2025 15:45	1.21	100.00	15.00	2.24	33.57	737.06	741.67	719.00	-5.00	1032.57	988.71	-5.00	43.17	0.14	0.94	0.28	0.00	51.80	0.00	0.56	0.00	0.95	39.92	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1129.51	11.15	47.44	336.83	400.00	1.00	4529	154153	4193	88326	720	0.07	8.00	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.00
3/31/2025 16:00	1.21	100.00	28.26	2.52	33.04	737.85	743.80	723.17	-5.00	1047.50	991.51	-5.00	42.17	0.13	0.90	0.28	0.00	51.82	0.00	0.56	0.00	0.95	39.94	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1129.90	11.15	47.44	336.83	400.00	1.00	4529	154188	4193	88326	720	0.07	8.00	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.00
3/31/2025 16:15	1.21	100.00	28.96	1.98	33.43	736.89	740.41	718.73	-5.00	1004.56	989.39	-5.00	41.65	0.13	0.88	0.28	0.00	51.83	0.00	0.56	0.00	0.95	39.95	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1130.11	11.15	47.44	336.83	400.00	1.00	4529	154206	4193	88326	720	0.07	8.00	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.00
3/31/2025 16:30	1.21	100.00	25.75	1.69	33.03	734.68	745.67	717.74	-5.00	1015.32	993.88	-5.00	40.33	0.12	0.84	0.28	0.00	51.85	0.00	0.56	0.00	0.95	39.96	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1130.60	11.14	47.44	336.83	400.00	1.00	4529	154250	4193	88326	721	0.07	8.01	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.01
3/31/2025 16:45	1.21	100.00	24.82	2.30	33.55	733.21	744.45	717.90	-5.00	1021.89	987.78	-5.00	39.49	0.12	0.81	0.28	0.00	51.86	0.00	0.56	0.00	0.95	39.97	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1130.91	11.14	47.44	336.83	400.00	1.00	4529	154277	4193	88326	721	0.07	8.01	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.01
3/31/2025 17:00	1.21	100.00	25.56	2.18	33.11	740.07	731.99	721.10	-5.00	1023.08	1003.70	-5.00	39.06	0.12	0.80	0.28	0.00	51.87	0.00	0.56	0.00	0.95	39.98	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1131.06	11.14	47.44	336.83	400.00	1.00	4529	154290	4193	88326	721	0.07	8.01	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.01
3/31/2025 17:15	1.21	100.00	49.90	2.45	33.26	744.61	731.06	720.10	-5.00	1039.90	1002.88	-5.00	38.72	0.12	0.79	0.28	0.00	51.87	0.00	0.56	0.00	0.95	39.98	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1131.18	11.14	47.44	336.83	400.00	1.00	4529	154300	4193	88326	721	0.07	8.02	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.02
3/31/2025 17:30	1.21	100.00	30.64	2.13	33.30	741.87	726.03	721.45	-5.00	1042.41	1011.28	-5.00	38.09	0.11	0.77	0.28	0.00	51.88	0.00	0.56	0.00	0.95	39.99	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1131.39	11.14	47.44	336.83	400.00	1.00	4529	154319	4193	88326	721	0.07	8.02	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.02
3/31/2025 17:45	1.21	100.00	20.31	2.01	33.24	741.18	732.13	719.31	-5.00	1029.82	1004.14	-5.00	38.19	0.11	0.77	0.28	0.00	51.88	0.00	0.56	0.00	0.95	39.99	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1131.36	11.14	47.44	336.83	400.00	1.00	4529	154316	4193	88326	721	0.07	8.02	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.02
3/31/2025 18:00	1.21	100.00	22.44	2.78	32.72	741.76	724.94	713.52	-5.00	1031.96	1005.00	-5.00	37.82	0.11	0.76	0.28	0.00	51.89	0.00	0.56	0.00	0.95	39.99	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1131.48	11.14	47.44	336.83	400.00	1.00	4529	154327	4193	88326	722	0.07	8.02	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.02
3/31/2025 18:15	1.21	100.00	24.38	2.73	33.29	747.27	724.91	720.13	-5.00	1036.61	997.85	-5.00	38.13	0.11	0.77	0.28	0.00	51.88	0.00	0.56	0.00	0.95	39.99	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1131.38	11.14	47.44	336.83	400.00	1.00	4529	154318	4193	88326	721	0.07	8.02	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.02
3/31/2025 18:30	1.21	100.00	33.84	1.63	32.44	751.94	721.38	711.33	-5.00	1067.97	994.56	-5.00	37.93	0.11	0.76	0.28	0.00	51.89	0.00	0.56	0.00	0.95	39.99	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1131.45	11.14	47.44	336.83	400.00	1.00	4529	154324	4193	88326	721	0.07	8.02	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.02
3/31/2025 18:45	1.21	100.00	14.38	2.08	33.68	746.80	732.59	709.74	-5.00	1071.18	997.60	-5.00	37.76	0.11	0.76	0.28	0.00	51.89	0.00	0.56	0.00	0.95	40.00	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1131.51	11.14	47.44	336.83	400.00	1.00	4529	154329	4193	88326	722	0.07	8.02	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.02
3/31/2025 19:00	1.21	100.00	35.51	2.69	33.04	752.93	739.08	707.51	-5.00	1082.41	1027.65	-5.00	37.72	0.11	0.76	0.28	0.00	51.89	0.00	0.56	0.00	0.95	40.00	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1131.52	11.14	47.44	336.83	400.00	1.00	4529	154330	4193	88326	722	0.07	8.02	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.02
3/31/2025 19:15	1.21	100.00	34.16	2.61	33.17	742.74	736.31	702.65	-5.00	1090.53	1003.44	-5.00	37.39	0.11	0.75	0.28	0.00	51.90	0.00	0.56	0.00	0.95	40.00	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1131.63	11.14	47.44	336.83	400.00	1.00	4529	154340	4193	88326	722	0.07	8.02	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.02
3/31/2025 19:30	1.21	100.00	20.24	1.49	32.47	747.46	735.82	703.38	-5.00	1078.12	995.12	-5.00	37.07	0.11	0.74	0.28	0.00	51.90	0.00	0.56	0.00	0.95	40.00	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1131.74	11.14	47.44	336.83	400.00	1.00	4529	154349	4193	88326	722	0.07	8.02	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.02
3/31/2025 19:45	1.21	100.00	22.60	1.84	33.14	740.95	738.79	703.21	-5.00	1074.75	991.50	-5.00	36.78	0.11	0.73	0.28	0.00	51.90	0.00	0.56	0.00	0.95	40.01	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1131.83	11.14	47.44	336.83	400.00	1.00	4529	154357	4193	88326	722	0.07	8.02	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.02
3/31/2025 20:00	1.21	100.00	20.38	1.91	32.83	743.55	741.18	702.56	-5.00	1088.44	1004.95	-5.00	36.58	0.11	0.72	0.28	0.00	51.91	0.00	0.56	0.00	0.95	40.01	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1131.89	11.14	47.44	336.83	400.00	1.00	4529	154363	4193	88326	722	0.07	8.02	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.02
3/31/2025 20:15	1.21	100.00	32.53	2.35	33.33	736.23	743.13	698.52	-5.00	1121.22	997.30	-5.00	36.30	0.10	0.72	0.28	0.00	51.91	0.00	0.56	0.00	0.95	40.01	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1131.98	11.14	47.44	336.83	400.00	1.00	4529	154371	4193	88326	722	0.07	8.03	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.03
3/31/2025 20:30	1.21	100.00	21.00	2.25	32.72	733.01	741.28	694.23	-5.00	1098.07	1009.34	-5.00	36.02	0.10	0.71	0.28	0.00	51.92	0.00	0.56	0.00	0.95	40.02	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1132.07	11.14	47.44	336.83	400.00	1.00	4529	154378	4193	88326	722	0.07	8.03	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.03
3/31/2025 20:45	1.21	100.00	16.59	2.36	33.29	739.41	755.93	701.02	-5.00	1143.32	1036.05	-5.00	35.89	0.10	0.70	0.28	0.00	51.92	0.00	0.56	0.00	0.95	40.02	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1132.11	11.14	47.44	336.83	400.00	1.00	4529	154382	4193	88326	722	0.07	8.03	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.03
3/31/2025 21:00	1.21	100.00	41.48	3.10	33.29	720.89	766.97	696.53	-5.00	1210.92	1010.61	-5.00	35.69	0.10	0.70	0.28	0.00	51.92	0.00	0.56	0.00	0.95	40.02	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1132.17	11.13	47.44	336.83	400.00	1.00	4529	154387	4193	88326	722	0.07	8.03	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.03
3/31/2025 21:15	1.21	100.00	15.50	2.10	32.82	728.88	757.71	691.76	-5.00	1138.42	1005.73	-5.00	35.72	0.10	0.70	0.28	0.00	51.92	0.00	0.56	0.00	0.95	40.02	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1132.17	11.13	47.44	336.83	400.00	1.00	4529	154387	4193	88326	722	0.07	8.03	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.03
3/31/2025 21:30	1.21	100.00	33.11	2.50	32.71	727.82	758.03	691.83	-5.00	1109.74	1003.08	-5.00	35.66	0.10	0.70	0.28	0.00	51.92	0.00	0.56	0.00	0.95	40.02	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1132.19	11.13	47.44	336.83	400.00	1.00	4529	154388	4193	88326	722	0.07	8.03	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.03
3/31/2025 21:45	1.21	100.00	28.07	2.27	33.78	735.36	751.53	696.73	-5.00	1111.53	1002.11	-5.00	35.68	0.10	0.70	0.28	0.00	51.92	0.00	0.56	0.00	0.95	40.02	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1132.18	11.13	47.44	336.83	400.00	1.00	4529	154388	4193	88326	722	0.07	8.03	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.03
3/31/2025 22:00	1.21	100.00	28.38	2.95	33.24	730.15	751.62	690.84	-5.00	1124.56	996.86	-5.00	35.52	0.10	0.69	0.28	0.00	51.92	0.00	0.56	0.00	0.95	40.02	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1132.23	11.13	47.44	336.83	400.00	1.00	4529	154392	4193	88326	722	0.07	8.03	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.03
3/31/2025 22:15	1.21	100.00	16.72	1.82	33.78	725.80	764.49	693.02	-5.00	1144.45	1012.51	-5.00	35.54	0.10	0.69	0.28	0.00	51.92	0.00	0.56	0.00	0.95	40.02	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1132.22	11.13	47.44	336.83	400.00	1.00	4529	154392	4193	88326	722	0.07	8.03	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.03
3/31/2025 22:30	1.21	100.00	35.65	2.52	32.52	739.69	747.11	698.88	-5.00	1133.89	1026.10	-5.00	35.64	0.10	0.70	0.28	0.00	51.92	0.00	0.56	0.00	0.95	40.02	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1132.19	11.13	47.44	336.83	400.00	1.00	4529	154389	4193	88326	722	0.07	8.03	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.03
3/31/2025 22:45	1.21	100.00	36.50	2.46	32.92	741.69	752.56	703.67	-5.00	1141.48	1052.55	-5.00	35.70	0.10	0.70	0.28	0.00	51.92	0.00	0.56	0.00	0.95	40.02	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1132.17	11.13	47.44	336.83	400.00	1.00	4529	154387	4193	88326	722	0.07	8.03	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.03
3/31/2025 23:00	1.21	100.00	17.77	2.36	33.45	751.05	755.26	706.47	-5.00	1126.18	1067.53	-5.00	35.82	0.10	0.70	0.28	0.00	51.92	0.00	0.56	0.00	0.95	40.02	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1132.13	11.13	47.44	336.83	400.00	1.00	4529	154384	4193	88326	722	0.07	8.03	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.03
3/31/2025 23:15	1.21	100.00	28.10	2.54	32.96	750.77	763.59	708.88	-5.00	1150.11	1086.15	-5.00	36.00	0.10	0.71	0.28	0.00	51.92	0.00	0.56	0.00	0.95	40.02	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1132.08	11.14	47.44	336.83	400.00	1.00	4529	154379	4193	88326	722	0.07	8.03	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.03
3/31/2025 23:30	1.21	100.00	29.24	2.69	33.10	750.53	771.97	706.65	-5.00	1158.56	1083.18	-5.00	36.10	0.10	0.71	0.28	0.00	51.91	0.00	0.56	0.00	0.95	40.01	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1132.04	11.14	47.44	336.83	400.00	1.00	4529	154376	4193	88326	722	0.07	8.03	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.03
3/31/2025 23:45	1.21	100.00	28.75	2.49	33.13	749.10	767.82	709.83	-5.00	1155.24	1080.63	-5.00	36.17	0.10	0.71	0.28	0.00	51.91	0.00	0.56	0.00	0.95	40.01	2.08	0.65	0.00	0.84	0.56	0.00	0.51	0.22	0.71	0.04	1132.02	11.14	47.44	336.83	400.00	1.00	4529	154374	4193	88326	722	0.07	8.03	0.00	0	0	0	0	940	0.07	0	0.00	0	0	0	0	940	0.68	0								8.03

Flare SO2 By Day					
	ZTOF	36 inch	24 inch	Pit	Total
Day	SO2 [kg]	SO2 [kg]	SO2 [kg]	SO2 [kg]	SO2 [kg]
1/1/2025	0.0	0.0	0.0	0.0	0.0
1/2/2025	0.0	0.0	0.0	0.0	0.0
1/3/2025	1.8	0.0	0.0	0.0	1.8
1/4/2025	0.0	0.0	0.0	0.0	0.0
1/5/2025	0.0	0.0	0.0	0.0	0.0
1/6/2025	0.0	0.0	0.0	0.0	0.0
1/7/2025	0.0	0.0	0.0	0.0	0.0
1/8/2025	0.0	0.0	0.0	0.0	0.0
1/9/2025	36.5	0.0	0.0	0.0	36.5
1/10/2025	252.2	0.0	0.0	0.0	252.2
1/11/2025	8.7	0.0	0.0	0.0	8.7
1/12/2025	0.0	0.0	0.0	0.0	0.0
1/13/2025	0.0	0.0	0.0	0.0	0.0
1/14/2025	0.0	0.0	0.0	0.0	0.0
1/15/2025	14.3	0.0	0.0	0.0	14.3
1/16/2025	3.4	0.0	0.0	0.0	3.4
1/17/2025	7.8	0.0	0.0	0.0	7.8
1/18/2025	0.0	0.0	0.0	0.0	0.0
1/19/2025	0.0	0.0	0.0	0.0	0.0
1/20/2025	0.0	0.0	0.0	0.0	0.0
1/21/2025	0.0	0.0	0.0	0.0	0.0
1/22/2025	0.0	0.0	0.0	0.0	0.0
1/23/2025	0.0	0.0	0.0	0.0	0.0
1/24/2025	0.0	0.0	0.0	0.0	0.0
1/25/2025	0.0	0.0	0.0	0.0	0.0
1/26/2025	0.0	0.0	0.0	0.0	0.0
1/27/2025	0.0	0.0	0.0	0.0	0.0
1/28/2025	0.0	0.0	0.0	0.0	0.0
1/29/2025	0.0	0.0	0.0	0.0	0.0
1/30/2025	0.0	0.0	0.0	0.0	0.0
1/31/2025	0.0	0.0	0.0	0.0	0.0
2/1/2025	4.2	0.0	0.0	0.0	4.2
2/2/2025	7.9	0.0	0.0	0.0	7.9
2/3/2025	9.0	0.0	0.0	0.0	9.0
2/4/2025	3.0	0.0	0.0	0.0	3.0
2/5/2025	0.0	0.0	0.0	0.0	0.0
2/6/2025	0.0	0.0	0.0	0.0	0.0
2/7/2025	0.0	0.0	0.0	0.0	0.0
2/8/2025	0.0	0.0	0.0	0.0	0.0
2/9/2025	0.0	0.0	0.0	0.0	0.0
2/10/2025	0.0	0.0	0.0	0.0	0.0
2/11/2025	0.2	0.0	0.0	0.0	0.2
2/12/2025	0.0	0.0	0.0	0.0	0.0
2/13/2025	0.0	0.0	0.0	0.0	0.0
2/14/2025	0.0	0.0	0.0	0.0	0.0
2/15/2025	0.0	0.0	0.0	0.0	0.0
2/16/2025	0.0	0.0	0.0	0.0	0.0
2/17/2025	16.3	0.0	0.0	0.0	16.3
2/18/2025	0.0	0.0	0.0	0.0	0.0
2/19/2025	48.9	0.0	0.0	0.0	48.9
2/20/2025	0.0	0.0	0.0	0.0	0.0
2/21/2025	110.5	0.0	0.0	0.0	110.5
2/22/2025	66.0	0.0	0.0	0.0	66.0
2/23/2025	55.2	0.0	0.0	0.0	55.2
2/24/2025	0.0	0.0	0.0	0.0	0.0
2/25/2025	0.0	0.0	0.0	0.0	0.0
2/26/2025	0.0	0.0	0.0	0.0	0.0
2/27/2025	0.0	0.0	0.0	0.0	0.0
2/28/2025	1.6	0.0	0.0	0.0	1.6
3/1/2025	0.0	0.0	0.0	0.0	0.0
3/2/2025	0.0	0.0	0.0	0.0	0.0
3/3/2025	10.3	0.0	0.0	0.0	10.3
3/4/2025	0.0	0.0	0.0	0.0	0.0
3/5/2025	0.0	0.0	0.0	0.0	0.0
3/6/2025	0.0	0.0	0.0	0.0	0.0
3/7/2025	0.0	0.0	0.0	0.0	0.0
3/8/2025	0.0	0.0	0.0	0.0	0.0
3/9/2025	0.0	0.0	0.0	0.0	0.0
3/10/2025	0.0	0.0	0.0	0.0	0.0
3/11/2025	0.0	0.0	0.0	0.0	0.0
3/12/2025	0.0	0.0	0.0	0.0	0.0
3/13/2025	0.0	0.0	0.0	0.0	0.0
3/14/2025	0.0	0.0	0.0	0.0	0.0
3/15/2025	5.6	0.0	0.0	0.0	5.6
3/16/2025	0.0	0.0	0.0	0.0	0.0
3/17/2025	0.0	0.0	0.0	0.0	0.0
3/18/2025	0.1	0.0	0.0	0.0	0.1
3/19/2025	0.0	0.0	0.0	0.0	0.0
3/20/2025	0.0	0.0	0.0	0.0	0.0
3/21/2025	226.6	0.0	0.0	0.0	226.6
3/22/2025	331.6	2.6	6.8	0.0	341.0
3/23/2025	2032.5	0.0	0.0	0.0	2032.5
3/24/2025	2639.4	0.0	0.0	0.0	2639.4
3/25/2025	3065.9	0.0	0.0	0.0	3065.9
3/26/2025	739.7	2.0	0.0	0.0	741.6
3/27/2025	1036.9	0.0	0.0	0.0	1036.9
3/28/2025	3580.2	14.0	0.0	0.0	3594.2
3/29/2025	1329.2	0.0	0.0	0.0	1329.2
3/30/2025	681.9	0.0	0.0	0.0	681.9
3/31/2025	759.6	0.0	0.0	0.0	759.6
4/1/2025	0.0	0.0	0.0	0.0	0.0

NOTE: Data is based on Flare Events, Zero is assumed for periods that the flare active with Process Gasses

Flare Gas Lab Results — **Air-Free Composition** — **Air-Free and Normalized Composition**

Date and Time	Hydrogen Sulphide	Sulphur Dioxide	Hydrogen	Oxygen	Nitrogen	Carbon Monoxide	Carbon Dioxide	Methane	Ethane	Propane	Propylene	i-Butane	n-Butane	Butylene	i-Pentane	n-Pentane	n-Hexane and C6+	Hydrogen Sulphide	Sulphur Dioxide	Hydrogen	Oxygen	Nitrogen	Carbon Monoxide	Carbon Dioxide	Methane	Ethane	Propane	Propylene	i-Butane	n-Butane	Butylene	i-Pentane	n-Pentane	n-Hexane and C6+	Hydrogen Sulphide	Sulphur Dioxide	Hydrogen	Oxygen	Nitrogen	Carbon Monoxide	Carbon Dioxide	Methane	Ethane	Propane	Propylene	i-Butane	n-Butane	Butylene	i-Pentane	n-Pentane	n-Hexane and C6+
	ppmv	ppmv	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol%	mol%	mol%	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol%	mol%	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %	mol %
12/30/2024 0:00	1340	0.18	54.40	0.15	7.48	0.00	0.07	29.04	2.39	1.61	0.00	1.11	1.04	0.00	0.81	0.46	1.10	0.334	0.000058	54.40	0.00	0.58	0.00	0.07	29.04	2.39	1.61	0.00	1.11	1.04	0.00	0.81	0.46	1.10	0.358	0.000	58.53	0.00	0.63	0.00	0.08	31.25	2.57	1.73	0.00	1.19	1.11	0.00	0.87	0.50	1.18
1/31/2025 0:00	1480	0.54	51.76	0.18	5.97	0.00	0.07	25.63	4.70	4.09	0.00	2.11	2.08	0.00	1.20	0.90	1.54	0.148	0.000054	51.76	0.00	0.68	0.00	0.07	25.63	4.70	4.09	0.00	2.11	2.08	0.00	1.20	0.90	1.54	0.156	0.000	54.53	0.00	0.72	0.00	0.08	27.00	4.95	4.31	0.00	2.23	2.19	0.00	1.27	0.95	1.62
1/13/2025 0:00	2180	0.74	52.33	0.11	5.24	0.00	0.07	24.79	4.69	4.16	0.00	2.19	2.21	0.00	1.31	0.98	1.69	0.238	0.000074	52.33	0.00	0.40	0.00	0.07	24.79	4.69	4.16	0.00	2.19	2.21	0.00	1.31	0.98	1.69	0.250	0.000	55.05	0.00	0.42	0.00	0.08	26.08	4.93	4.37	0.00	2.30	2.32	0.00	1.38	1.03	1.78
1/15/2025 0:00	1580	0.62	60.58	0.19	4.65	0.00	0.05	20.39	3.81	3.70	0.00	1.93	1.69	0.00	1.04	0.69	1.11	0.158	0.000062	60.58	0.00	0.70	0.00	0.05	20.39	3.81	3.70	0.00	1.93	1.69	0.00	1.04	0.69	1.11	0.165	0.000	63.19	0.00	0.73	0.00	0.05	21.27	3.98	3.86	0.00	2.02	1.77	0.00	1.08	0.72	1.16
1/16/2025 23:50	838	0.35	62.49	0.19	4.25	0.00	0.04	18.60	4.25	3.88	0.00	1.98	1.79	0.00	0.81	0.68	0.96	0.0838	0.000035	62.49	0.00	0.70	0.00	0.04	18.60	4.25	3.88	0.00	1.98	1.79	0.00	0.81	0.68	0.96	0.087	0.000	64.91	0.00	0.73	0.00	0.04	19.32	4.42	4.03	0.00	2.06	1.86	0.00	0.84	0.70	1.00
1/2/2025 0:00	1100	0.47	53.28	0.07	4.58	0.00	0.54	22.74	5.40	5.02	0.00	2.52	2.41	0.00	1.09	0.95	1.28	0.11	0.000047	53.28	0.00	0.28	0.00	0.54	22.74	5.40	5.02	0.00	2.52	2.41	0.00	1.09	0.95	1.28	0.115	0.000	55.72	0.00	0.29	0.00	0.56	23.78	5.65	5.25	0.00	2.63	2.52	0.00	1.14	0.99	1.34
1/18/2025 14:00	1350	0.55	52.39	1.17	8.59	0.00	0.05	19.05	5.50	5.07	0.00	2.67	2.40	0.00	1.09	0.95	1.13	0.135	0.000055	52.39	0.00	0.00	0.00	0.05	19.05	5.50	5.07	0.00	2.67	2.40	0.00	1.09	0.95	1.13	0.143	0.000	55.36	0.00	0.00	0.00	0.05	20.13	5.81	5.38	0.00	2.81	2.54	0.00	1.16	1.00	1.20
1/19/2025 0:00	998	0.3	53.77	0.06	4.21	0.00	0.06	22.80	5.87	5.17	0.00	2.53	2.39	0.00	1.06	0.90	1.07	0.0998	0.00003	53.77	0.00	0.24	0.00	0.06	22.80	5.87	5.17	0.00	2.53	2.39	0.00	1.06	0.90	1.07	0.104	0.000	56.03	0.00	0.25	0.00	0.06	23.76	6.11	5.39	0.00	2.64	2.49	0.00	1.10	0.94	1.11
1/30/2025 14:00	980	0.44	66.87	0.10	3.27	0.00	0.45	14.36	4.09	3.57	0.00	1.91	1.95	0.00	1.03	0.91	1.39	0.0980	0.000044	66.87	0.00	0.37	0.00	0.45	14.36	4.09	3.57	0.00	1.91	1.95	0.00	1.03	0.91	1.39	0.102	0.000	68.93	0.00	0.39	0.00	0.46	14.80	4.22	3.68	0.00	1.97	2.01	0.00	1.07	0.94	1.43
1/31/2025 0:00	1550.00	0.53	49.18	1.91	11.39	0.00	0.52	20.60	4.68	3.18	0.00	2.51	2.22	0.00	1.30	0.99	1.37	0.155	0.000053	49.18	0.00	7.18	0.00	0.52	20.60	4.68	3.18	0.00	2.51	2.22	0.00	1.30	0.99	1.37	0.161	0.000	52.38	0.00	7.65	0.00	0.55	21.95	4.98	3.39	0.00	2.68	2.36	0.00	1.38	1.06	1.46
2/3/2025 14:00	1680	0.55	49.50	0.56	6.23	0.00	0.50	23.57	5.17	4.88	0.00	2.51	2.57	0.00	1.27	1.10	1.97	0.168	0.000055	49.50	0.00	2.09	0.00	0.50	23.57	5.17	4.88	0.00	2.51	2.57	0.00	1.27	1.10	1.97	0.175	0.000	51.94	0.00	2.19	0.00	0.52	24.73	5.43	5.13	0.00	2.64	2.70	0.00	1.33	1.15	2.06
2/4/2025 14:00	1750	0.53	50.89	0.45	6.20	0.00	0.53	23.66	5.32	4.71	0.00	2.24	2.22	0.00	1.00	0.89	1.67	0.175	0.000053	50.89	0.00	1.66	0.00	0.53	23.66	5.32	4.71	0.00	2.24	2.22	0.00	1.00	0.89	1.67	0.189	0.000	53.55	0.00	1.75	0.00	0.56	24.90	5.60	4.96	0.00	2.36	2.34	0.00	1.05	0.94	1.76
2/6/2025 14:00	1600	0.72	52.74	1.23	9.04	0.00	0.54	23.01	4.25	3.14	0.00	1.44	1.40	0.00	0.72	0.57	1.77	0.16	0.000072	52.74	0.00	4.61	0.00	0.54	23.01	4.25	3.14	0.00	1.44	1.40	0.00	0.72	0.57	1.77	0.170	0.000	55.90	0.00	4.89	0.00	0.57	24.38	4.51	3.33	0.00	1.52	1.49	0.00	0.77	0.61	1.87
2/13/2025 14:00	1620	0.44	50.40	0.84	8.57	0.00	0.51	22.24	4.59	4.41	0.00	2.24	2.29	0.00	1.05	0.95	1.74	0.162	0.000044	50.40	0.00	3.14	0.00	0.51	22.24	4.59	4.41	0.00	2.24	2.29	0.00	1.05	0.95	1.74	0.173	0.000	53.77	0.00	3.36	0.00	0.54	23.73	4.90	4.70	0.00	2.39	2.44	0.00	1.12	1.01	1.86
2/18/2025 14:00	1510	0.68	49.96	1.27	8.77	0.00	0.51	22.39	4.25	4.27	0.00	2.25	2.31	0.00	1.12	0.97	1.79	0.151	0.000068	49.96	0.00	4.76	0.00	0.51	22.39	4.25	4.27	0.00	2.25	2.31	0.00	1.12	0.97	1.79	0.158	0.000	52.75	0.00	5.03	0.00	0.53	23.63	4.49	4.51	0.00	2.37	2.44	0.00	1.18	1.02	1.89
2/19/2025 14:00	1170	0.56	57.82	0.29	4.73	0.00	0.30	20.69	3.70	4.00	0.00	2.13	2.18	0.00	1.13	1.00	1.91	0.117	0.000056	57.82	0.00	1.08	0.00	0.30	20.69	3.70	4.00	0.00	2.13	2.18	0.00	1.13	1.00	1.91	0.122	0.000	60.19	0.00	1.13	0.00	0.31	21.54	3.85	4.16	0.00	2.22	2.27	0.00	1.18	1.04	1.99
2/20/2025 14:00	1750	0.52	53.84	0.07	4.36	0.00	0.51	22.32	4.16	4.59	0.00	2.44	2.68	0.00	1.33	1.23	0.18	0.175	0.000052	53.84	0.00	0.26	0.00	0.51	22.32	4.16	4.59	0.00	2.44	2.68	0.00	1.33	1.23	0.18	0.187	0.000	57.44	0.00	0.28	0.00	0.54	23.82	4.44	4.90	0.00	2.61	2.86	0.00	1.42	1.32	0.19
2/21/2025 15:00	1180	0.51	61.79	1.75	9.70	0.00	0.27	15.48	2.52	2.84	0.00	1.44	1.41	0.00	0.73	0.63	1.30	0.118	0.000051	61.79	0.00	6.59	0.00	0.27	15.48	2.52	2.84	0.00	1.44	1.41	0.00	0.73	0.63	1.30	0.124	0.000	64.96	0.00	6.92	0.00	0.29	16.28	2.65	2.99	0.00	1.51	1.48	0.00	0.77	0.66	1.37
2/23/2025 18:45	827	0.45	68.96	0.41	4.27	0.00	0.29	16.20	2.34	2.41	0.00	1.32	1.26	0.00	0.67	0.56	1.22	0.0827	0.000045	68.96	0.00	1.53	0.00	0.29	16.20	2.34	2.41	0.00	1.32	1.26	0.00	0.67	0.56	1.22	0.085	0.000	71.20	0.00	1.58	0.00	0.30	16.73	2.41	2.49	0.00	1.36	1.31	0.00	0.69	0.58	1.26
2/23/2025 8:00	886	0.6	61.01	0.10	4.26	0.00	0.38	17.97	3.47	4.34	0.00	2.24	2.15	0.00	1.12	0.92	1.95	0.0886	0.00006	61.01	0.00	0.38	0.00	0.38	17.97	3.47	4.34	0.00	2.24	2.15	0.00	1.12	0.92	1.95	0.092	0.000	63.55	0.00	0.39	0.00	0.39	18.71	3.61	4.52	0.00	2.33	2.24	0.00	1.16	0.96	2.03
2/28/2025 23:00	2258	0.8	51.61	0.24	5.41	0.00	0.47	22.46	4.49	5.12	0.00	2.88	2.95	0.00	1.43	1.16	1.54	0.2258	0.00008	51.61	0.00	0.92	0.00	0.47	22.46	4.49	5.12	0.00	2.88	2.95	0.00	1.43	1.16	1.54	0.237	0.000	54.18	0.00	0.97	0.00	0.50	23.58	4.71	5.37	0.00	3.02	3.10	0.00	1.50	1.22	1.61
3/1/2025 23:00	1395	0.68	58.43	0.15	5.27	0.00	0.50	20.65	3.66	3.76	0.00	1.97	2.00	0.00	0.98	0.83	1.64	0.1395	0.000068	58.43	0.00	0.56	0.00	0.50	20.65	3.66	3.76	0.00	1.97	2.00	0.00	0.98	0.83	1.64	0.147	0.000	61.42	0.00	0.59	0.00	0.53	21.71	3.84	3.96	0.00	2.07	2.10	0.00	1.03	0.88	1.73
3/15/2025 23:00	2241	1.02	47.95	0.88	7.66	0.00	0.48	24.45	3.81	4.46	0.00	2.65	2.72	0.00	1.57	1.24	1.90	0.2241	0.000102	47.95	0.00	3.32	0.00	0.48	24.45	3.81	4.46	0.00	2.65	2.72	0.00	1.57	1.24	1.90	0.236	0.000	50.59	0.00	3.51	0.00	0.51	25.89	4.02	4.71	0.00	2.79	2.87	0.00	1.66	1.30	2.00
3/19/2025 23:00	1214	1.23	49.06	1.77	10.57	0.00	0.53	23.95	2.42	3.01	0.00	1.97	2.10	0.00	1.18	1.02	2.31	0.1214	0.000123	49.06	0.00	6.64	0.00	0.51	23.95	2.42	3.01	0.00	1.87	2.10	0.00	1.18	1.02	2.31	0.129	0.000	52.03	0.00	7.04	0.00	0.54	25.40	2.57	3.19	0.00	2.09	2.23	0.00	1.25	1.08	2.45
3/30/2025 23:00	1337	0.54	58.78	0.56	6.81	0.00	0.58	26.73	1.11	1.03	0.00	0.94	0.82	0.00	0.67	0.48	1.36	0.1337	0.000054	58.78	0.00	2.11	0.00	0.58	26.73	1.11	1.03	0.00	0.94	0.82	0.00	0.67	0.48	1.36	0.120	0.000	62.05	0.00	2.23	0.00	0.61	28.21	1.18	1.09	0.00	0.99	0.87	0.00	0.71	0.51	1.44
3/21/2025 16:00	1049	1.45	48.01	0.20	8.08	0.00	0.51	33.55	2.53	2.29	0.00	1.37	0.97	0.00	0.60	0.46	1.34	0.1049	0.000145	48.01	0.00	0.75	0.00	0.51	33.55	2.53	2.29	0.00	1.37	0.97	0.00	0.60	0.46	1.34	0.113	0.000	51.91	0.00	0.81	0.00	0.55	36.28	2.74	2.48	0.00	1.48	1.05	0.00	0.64	0.50	1.45
3/21/2025 23:00	995	1.05	24.24	5.43	28.46	0.00	0.48	32.84	1.86	1.72	0.00	1.32	1.13	0.00	0.64	0.54	1.24	0.0995	0.000105	24.24	0.00	20.40	0.00	0.48	32.84	1.86	1.72	0.00	1.32	1.13	0.00	0.64	0.54	1.24	0.112	0.000	28.02	0.00	23.58	0.00	0.55	37.97	2.15	1.99	0.00	1.53	1.30	0.00	0.74	0.62	1.43
3/22/2025 8:00	1375	1.29	48.16	0.54	11.07	0.00	0.59	33.24	1.72	1.21	0.00	0.91	0.79	0.00	0.52	0.36	0.76	0.1375	0.000129	48.16	0.00	2.04	0.00	0.59	33.24	1.72	1.21	0.00	0.91	0.79	0.00	0.52	0.36	0.76	0.152	0.000	53.26	0.00	2.26	0.00	0.66	36.75	1.90	1.34	0.00	1.01	0.88	0.00	0.57	0.39	0.84
3/22/2025 23:00	1416	0.55	38.14	0.29	15.52	0.00	0.48	34.81	2.57	4.00	0.00	1.69	0.96	0.00	0.45	0.38	0.57	0.1416	0.000055	38.14	0.00	1.11	0.00	0.48	34.81	2.57	4.00	0.00	1.69	0.96	0.00	0.45	0.38	0.57	0.166	0.000	44.72	0.00	1.30	0.00	0.57	40.81	3.01	4.69	0.00	1.98	1.12	0.00	0.53	0.44	0.67
3/23/2025 8:00	1240	0.95	32.00	0.50	39.48	0.00	0.44	20.38	1.37	2.09	0.00	1.24	0.92	0.00	0.50	0.38	0.56	0.124	0.000095	32.00	0.00	1.89	0.00	0.44	20.38	1.37	2.09	0.00	1.24	0.92	0.00	0.50	0.38	0.56	0.300	0.000	51.69	0.00	3.05	0.00	0.71	32.92	2.22	3.38	0.00	2.00	1.49	0.00	0.81	0.62	0.96
3/31/2025 19:30	2320	0.6	0.31	15.91	69.78	0.00	0.38	7.57	1.05	1.23	0.00	1.13	0.87	0.00	0.51	0.37	0.63	0.232	0.00006	0.31	0.00	59.84	0.00	0.38	7.57	1.05	1.23	0.00	1.13	0.87	0.00	0.51	0.37	0.63	0.313	0.000	0.42	0.00	80.72	0.00	0.51	10.21	1.42	1.66	0.00	1.53	1.18	0.00	0.69	0.50	0.85
3/25/2023 10:00	3756	0.93	33.46	2.11	33.07	0.00	0.55	25.63	1.61	1.38	0.00	1.16	0.97	0.00	0.73	0.35	0.61	0.3756	0.000093	33.46	0.00	7.96	0.00	0.55	25.63	1.61	1.58	0.00	1.16	0.97	0.00	0.73	0.35	0.61	0.503	0.000	44.79	0.00	10.64	0.00	0.73	34.28	2.15	1.84	0.00	1.55	1.30	0.00	0.97	0.47	0.81
3/24/2025 0:00	1394	0.34	34.76	1.97	18.69	0.00	1.27	28.55	2.93	2.65	0.00	2.68	2.23	0.00	1.80	0.83	1.49	0.1394	0.000034	34.76	0.00	7.40	0.00	1.27	28.55	2.93	2.65	0.00	2.68	2.23	0.00	1.80	0.83	1.49	0.161	0.000	40.07	0.00	8.53	0.00	1.47	32.91	3.38	3.06	0.00	3.09	2.57	0.00	2.08	0.96	1.72
3/27/2025 0:00	3815	0.83	33.84	1.31	28.78	0.00	0.60	26.68	1.95	1.57	0.00	1.46	1.22	0.00	0.96	0.45	0.78	0.3815	0.000083	33.84	0.00	4.92	0.00	0.60	26.68	1.95	1.57	0.00	1.46	1.22	0.00	0.96	0.45	0.78	0.510	0.000	45.23	0.00	6.58	0.00	0.80	35.65	2.61	2.10	0.00	1.95	1.63	0.00	1.28	0.60	1.04
3/28/2025 0:00	4135	0.77	37.23	0.50	17.99	0.00	0.68	32.87	2.24	1.92	0.00	1.78	1.50	0.00	1.23	0.58	1.06	0.4135	0.000077	37.23	0.00	1.87	0.00	0.68	32.87	2.24	1.92	0.00	1.78	1.50	0.00	1.23	0.58	1.06	0.466	0.000	44.69	0.00	2.24	0.00	0.82	39.43	2.69	2.30	0.00	2.14	1.80	0.00	1.48	0.69	1.27
3/28/2025 12:00	4244	0.6	37.72	0.15	19.18	0.00	0.78	32.45	2.17	1.86	0.00	1.63	1.33	0.00	1.01	0.46	0.82	0.4244	0.00006	37.72	0.00	0.58	0.00	0.78	32.45	2.17	1.86	0.00	1.63	1.33	0.00	1.01	0.46	0.82	0.522	0.000	46.43	0.00	0.72	0.00	0.96	39.94	2.68	2.30	0.00	2.01	1.64	0.00	1.24	0.57	1.00
3/29/2025 0:00	2670	0.44	45.66	0.21	11.94	0.00	0.84	33.41	2.00	1.71	0.00	1.30	0.89	0.00	0.78	0.33	0.67	0.267	0.000044	45.66	0.00	0.78	0.00	0.84	33.41	2.00	1.71	0.00	1.30	0.89	0.00	0.78	0.33	0.67	0.301	0.000	51.52	0.00	0.89	0.00	0.94	37.70	2.25	1.93	0.00	1.46	1.01	0.00	0.88	0.37	0.76
3/30/2025 0:00	2838	0.45	43.37	1.42	9.59	0.00	0.93	36.43	2.34	1.43	0.00	1.39	0.94	0.00	0.83	0.34	0.72	0.2838	0.000045	43.37	0.00	5.33	0.00	0.93	36.43	2.34	1.43	0.00	1.39	0.94	0.00	0.83	0.34	0.72	0.303	0.000	45.98	0.00	5.65	0.00	0.98	38.61	2.48	1.52	0.00	1.47	1.00	0.00	0.88	0.36	0.77
3/31/2025 0:00	2672	0.77	50.06	0.14	4.65	0.00	0.91	38.58	2.01	0.63	0.00	0.81	0.54	0.00	0.50	0.21	0.69	0.2672	0.000077	50.06	0.00	0.54	0.00	0.91	38.58	2.01	0.63	0.00	0.81	0.54	0.00	0.50	0.21	0.69	0.279	0.000	52.28	0.00	0.56	0.00	0.95	40.30	2.09	0.66	0.00	0.84	0.56	0.00	0.52	0.22	0.72