



**South Coast Air Quality Management District**

**Valero Refinery (formerly Ultramar)  
2022 Rule 1118 Quarterly Flare Emissions**

**Emission Target**

2022 SOx Emissions Target (lbs)	Year-to-Date SOx Emissions (lbs)
29,600	4,094.0

**Quarter I (January 1, 2022 - March 31, 2022):**

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
LPG	4,862,409	34.0	2,467.7	153.2	1,395.5	32.3
Phase 0	9,926,121	74.6	1,289.7	75.5	349.9	315.3
Phase 1	70,235,786	1,437.0	3,721.6	31,172.6	14,730.9	2,127.1
Phase 2	27,368,277	533.5	2,095.1	12,446.6	5,943.1	512.1
<b>Total</b>	<b>112,392,592</b>	<b>2,079</b>	<b>9,574</b>	<b>43,848</b>	<b>22,419</b>	<b>2,987</b>

**Quarter II (April 1, 2022 - June 30, 2022):**

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
LPG	5,740,034	40.2	2,913.1	180.8	1,647.4	38.2
Phase 0	10,147,653	76.1	1,319.2	71.0	355.2	8.4
Phase 1	2,855,474	21.6	370.2	30.3	104.3	6.5
Phase 2	4,310,038	37.9	527.3	197.7	216.4	36.1
<b>Total</b>	<b>23,053,199</b>	<b>175.9</b>	<b>5,129.8</b>	<b>479.9</b>	<b>2,323.2</b>	<b>89.2</b>

**Quarter III (July 1, 2022 - September 30, 2022):**

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
LPG	4,333,584	30.3	2,199.3	136.5	1243.7	28.8
Phase 0	10,312,252	77.3	1,340.6	72.2	360.9	8.6
Phase 1	2,931,857	23.4	375.3	85.1	129.7	507.7
Phase 2	4,445,621	43.2	519.4	323.3	269.8	181.5
<b>Total</b>	<b>22,023,314</b>	<b>174.2</b>	<b>4,434.6</b>	<b>617.1</b>	<b>2,004.1</b>	<b>726.6</b>

**Quarter IV (October 1, 2022 - December 31, 2022):**

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
LPG	3,746,979	26.2	1,901.6	118.0	1075.4	24.9
Phase 0	8,593,313	64.5	1,117.1	60.2	300.8	7.1
Phase 1	2,965,427	22.7	383.5	46.2	114.6	72.4
Phase 2	4,797,837	48.0	630.4	1,050.1	617.2	187.0
<b>Total</b>	<b>20,103,556</b>	<b>161</b>	<b>4,033</b>	<b>1,275</b>	<b>2,108</b>	<b>291</b>