



**South Coast Air Quality Management District**

**Valero Refinery (formerly Ultramar)  
2018 Rule 1118 Quarterly Flare Emissions**

**Emission Target**

2018 SOx Emissions Target (lbs)	Year-to-Date SOx Emissions (lbs)
29,600	3,743.2

**Quarter I (January 1, 2018 - March 31, 2018):**

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
LPG	5,748,759	40.2	2,917.5	181.1	1,649.9	40.2
Phase 0	8,225,347	66.4	1,034.2	64.8	332.2	34.1
Phase 1	3,853,828	32.2	484.9	39.7	211.0	450.6
Phase 2	5,892,126	71.7	778.8	295.8	1,714.1	74.8
<b>Total</b>	<b>23,720,060</b>	<b>210.5</b>	<b>5,215.4</b>	<b>581.4</b>	<b>3,907.2</b>	<b>599.7</b>

**Quarter II (April 1, 2018 - June 30, 2018):**

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
LPG	6,049,460	42.9	3,108.6	193.0	1,758.0	42.9
Phase 0	4,039,850	30.4	524.6	28.7	144.1	4.1
Phase 1	4,106,020	37.2	5,505.0	98.0	553.3	2,134.3
Phase 2	5,615,140	67.0	622.1	148.1	846.6	599.3
<b>Total</b>	<b>19,810,470</b>	<b>177.5</b>	<b>9,760.3</b>	<b>467.8</b>	<b>3,302.0</b>	<b>2,780.6</b>

**Quarter III (July 1, 2018 - September 30, 2018):**

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
LPG	6,473,109	45.3	3,285.1	203.9	1,857.8	45.3
Phase 0	4,066,552	30.5	528.6	28.5	142.7	3.4
Phase 1	3,830,341	30.9	487.0	34.9	182.5	26.2
Phase 2	4,103,679	34.8	516.8	47.1	253.6	128.9
<b>Total</b>	<b>18,473,681</b>	<b>141.5</b>	<b>4,817.5</b>	<b>314.4</b>	<b>2,436.6</b>	<b>203.8</b>

**Quarter IV (October 1, 2018 - December 31, 2018):**

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
LPG	7,044,393	49.3	3,575.0	221.9	2021.7	49.3
Phase 0	9,629,551	72.4	1,251.0	68.0	340.7	8.3
Phase 1	3,738,872	28.7	483.5	29.4	150.3	97.3
Phase 2	3,870,988	29.4	501.4	28.8	145.8	4.2
<b>Total</b>	<b>24,283,804</b>	<b>179.9</b>	<b>5,811.0</b>	<b>348.2</b>	<b>2,658.6</b>	<b>159.1</b>