



South Coast Air Quality Management District

**Valero Refinery (formerly Ultramar)
2016 Rule 1118 Quarterly Flare Emissions**

Emission Target

2016 SOx Emissions Target (lbs)	Year-to-Date SOx Emissions (lbs)
29,600	39,229.9

Quarter I (January 1, 2016 - March 31, 2016):

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
LPG	7,497,903	36.7	3,411.6	78.7	839.8	52.5
Phase 0	3,785,739	28.4	492.1	26.6	132.8	3.2
Phase 1	5,055,430	39.6	649.8	42.4	219.1	405.7
Phase 2	6,139,616	80.6	718.5	259.4	1,501.6	380.6
Total	22,478,688	185.3	5,271.9	407.1	2,693.2	841.9

Quarter II (April 1, 2016 - June 30, 2016):

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
LPG	6,164,061	30.2	2,804.7	64.7	690.4	43.2
Phase 0	3,762,418	28.3	488.9	26.5	132.7	3.1
Phase 1	4,213,355	37.0	519.2	48.1	259.0	187.0
Phase 2	8,673,776	131.5	1,043.3	541.0	3,154.2	336.7
Total	22,813,610	226.9	4,856.1	680.3	4,236.3	570.0

Quarter III (July 1, 2016 - September 30, 2016):

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
LPG	8,790,925	43.1	3,999.9	92.3	984.6	61.5
Phase 0	3,851,904	30.0	494.0	30.0	152.9	9,653.4
Phase 1	4,986,973	52.6	589.1	107.6	608.1	2,012.1
Phase 2	6,725,777	90.0	695.2	213.8	1,232.3	289.7
Total	24,355,579	215.7	5,778.2	443.6	2,977.9	12,016.8

Quarter IV (October 1, 2016 - December 31, 2016):

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
LPG	6,881,468	33.7	3,131.1	72.3	770.7	48.2
Phase 0	9,573,788	75.5	1,224.0	78.6	404.6	25,266.7
Phase 1	4,093,988	33.4	522.6	42.5	225.5	262.0
Phase 2	4,264,614	37.5	539.7	62.3	342.1	224.4
Total	24,813,858	180.0	5,417.4	255.6	1,743.0	25,801.3