



South Coast Air Quality Management District

**Valero Refinery (formerly Ultramar)
2017 Rule 1118 Quarterly Flare Emissions**

Emission Target

2017 SOx Emissions Target (lbs)	Year-to-Date SOx Emissions (lbs)
29,600	9,122.4

Quarter I (January 1, 2017 - March 31, 2017):

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
LPG	6,888,553	33.8	3,134.3	72.3	771.5	48.2
Phase 0	9,124,173	69.0	1,183.5	66.3	334.1	13.4
Phase 1	3,747,323	28.6	485.0	28.4	144.1	90.8
Phase 2	5,091,481	52.2	592.4	88.6	495.5	153.5
Total	24,851,530	183.6	5,395.2	255.6	1,745.2	305.9

Quarter II (April 1, 2017 - June 30, 2017):

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
LPG	6,222,131	30.5	2,833.3	65.4	697.4	43.6
Phase 0	3,836,452	29.7	495.3	31.2	160.4	20.0
Phase 1	3,950,494	33.4	487.1	35.1	183.8	755.5
Phase 2	9,145,536	138.2	972.5	448.7	2,611.1	1,863.4
Total	23,154,613	231.8	4,788.2	580.4	3,652.7	2,682.5

Quarter III (July 1, 2017 - September 30, 2017):

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
LPG	5,797,459	89.5	2,942.2	182.6	1,663.9	40.6
Phase 0	3,781,096	28.6	490.3	27.8	140.2	10.4
Phase 1	3,854,700	31.6	489.3	38.9	206.2	1,259.5
Phase 2	7,396,958	102.3	986.2	468.2	2,725.9	152.9
Total	20,830,213	252.0	4,908.0	717.5	4,736.2	1,463.4

Quarter IV (October 1, 2017 - December 31, 2017):

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
LPG	5,949,942	41.6	3,019.6	187.4	1707.6	41.6
Phase 0	9,333,540	70.9	1,208.5	68.7	346.7	2,742.5
Phase 1	4,552,380	45.9	562.8	103.9	587.8	1,591.6
Phase 2	4,546,499	42.2	538.5	50.8	274.5	294.9
Total	24,382,361	200.6	5,329.4	410.8	2,916.6	4,670.6