



**South Coast Air Quality Management District**

**Valero Refinery (formerly Ultramar)  
2009 Rule 1118 Quarterly Flare Emissions**

**Emission Target**

2009 SOx Emissions Target (lbs)	Year-to-date SOx Emissions (lbs)
60,000	<b>30,058.00</b>

**Quarter I (January 1, 2009 - March 31, 2009)**

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	S as SO2
LPG	433,055	2.1	197	4.6	48.5	71.2
Phase 0	18,502,821	341.1	1,503.80	988.9	5,786.20	723.5
Phase I	6,578,175	90	677.9	223.7	1,292.20	194.4
Phase 2	12,447,527	213.3	704	247.9	1,434.20	538
Total	37,961,578	646.6	3,082.70	1,465.10	8,561.20	1,527.20

**Quarter II (April 1, 2009 - June 30, 2009)**

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	S as SO2
LPG	0	0	0	0	0	0
Phase 0	8,928,742	139.5	823.8	354.4	2,059.50	237.3
Phase I	6,778,206	93.6	705	244.4	1,413.10	321.8
Phase 2	12,004,257	203.4	648.8	192.3	1,107.60	64.7
Total	27,711,205	436.6	2,177.60	791.1	4,580.10	623.8

**Quarter III (July 1, 2009 - September 30, 2009)**

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	S as SO2
LPG	443,392	2.2	201.3	4.7	49.6	72.8
Phase 0	9,737,283	156	890.2	411.5	2,394.40	10,546.00
Phase I	7,092,062	99.8	711.4	245.8	1,421.30	141
Phase 2	11,812,236	198.9	666.3	204	1,175.80	493.3
Total	29,084,973	456.9	2,469.20	866	5,041.10	11,253.10

**Quarter IV (October 1, 2009 - December 31, 2009)**

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	S as SO2
LPG	444,429	2.2	201.4	4.7	49.6	72.8
Phase 0	9,682,585	154.9	826.4	352.4	2,047.20	8,448.30
Phase I	6,808,676	93.8	728.9	262	1,516.50	2,745.00
Phase 2	31,149,515	605	1,794.70	1,249.50	7,315.80	5,388.00
Total	48,085,205	855.9	3,551.40	1,868.50	10,929.10	16,654.10