



South Coast Air Quality Management District

Chevron El Segundo Refinery 2009 Rule 1118 Quarterly Flare Emissions

Emission Target

2009 SOx Emissions Target (lbs)	Year-to-date SOx Emissions (lbs)
190,000	116,995.60

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

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	S as SO2
LSFO	5,162,255	40.9	657.7	43.7	226.4	11.9
Coker	4,440,392	33.3	577.3	31.1	155.4	3.7
FCC	48,828,891	823.4	4,412.50	2,390.60	13,948.70	6,300.70
Isomax	10,659,255	138.7	1,026.20	235.2	1,342.70	1,648.90
Ground Flare	22,151,589	36.1	651.6	33.6	1,137.00	1
Alky Flare	3,578,455	29.1	473.1	51.5	281.7	2.8
Total	94,820,837	1,101.50	7,798.40	2,785.70	17,091.80	7,969.00

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

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	S as SO2
LSFO	18,196,785	136.5	2,365.60	127.4	636.9	15.1
Coker	6,414,242	48.1	833.8	45	225.1	5.4
FCC	25,395,797	190.8	3,302.30	181.1	908.4	40.1
Isomax	43,514,224	327.7	5,649.30	309.1	1,549.80	37.2
Alky Flare	4,133,380	31	537.3	28.9	144.7	3.4
Total	97,654,428	734.1	12,688.30	691.4	3,464.90	86.1

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

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	S as SO2
LSFO	14,248,973	106.9	1,852.40	99.7	498.7	11.8
Coker	17,362,022	130.2	2,257.10	121.5	607.7	14.4
FCC	22,650,793	169.9	2,944.60	158.7	793.4	19.4
Isomax	37,719,635	283.4	4,900.90	265.6	1,329.60	31.7
Alky Flare	3,815,805	28.6	496.1	26.8	134.2	3.2
Total	95,797,228	719	12,451.10	672.3	3,363.60	80.5

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

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	S as SO2
LSFO	18,742,942	142.2	2,430.60	139	702.6	129.7
Coker	12,763,775	95.7	1,659.30	89.4	446.7	10.6
FCC	19,735,665	148.7	2,565.00	143	719.4	22
Isomax	19,247,511	329.3	1,758.30	999.3	5,835.30	108,694.80
Alky Flare	3,598,038	27.7	468.7	31.7	164.5	2.9
Total	74,087,931	414.4	7,127.40	403.2	2,034.10	108,860