



South Coast Air Quality Management District

**Chevron El Segundo Refinery
2011 Rule 1118 Quarterly Flare Emissions**

Emission Target

2011 SOx Emissions Target (lbs)	Year-to-date SOx Emissions (lbs)
133,224	19,656.90

Quarter I (January 1, 2011 - March 31, 2011)

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	S as SO2
LSFO	8,777,500	65.8	1,141.00	61.5	307.4	9
Coker	11,289,070	84.7	1,467.60	79	395.1	9.4
FCC	10,858,920	81.4	1,411.70	76	380.1	9
Isomax	12,857,280	96.5	1,671.20	90.2	451.4	10.7
Flare	54,306,600	77.1	1,745.00	71.7	16,814.70	0
Alky Flare	2,894,860	21.7	376.3	30.3	101.3	2.4
Total	100,984,230	427.2	7,812.80	408.7	18,450.00	40.5

Quarter II (April 1, 2011 - June 30, 2011)

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	S as SO2
LSFO	8,443,120	63.3	1,097.60	59.1	295.5	7
Coker	12,070,250	90.5	1,569.10	84.5	422.5	10
FCC	63,235,000	993.8	5,943.20	2,698.10	15,694.80	17,833.00
Isomax	13,288,960	107	1,681.50	111.6	577.4	157.8
Alky Flare	3,027,330	22.7	393.6	21.2	106	2.5
Total	100,064,660	1,277.30	10,685	2,974.50	17,096.20	18,010.30

Quarter III (July 1, 2011 - September 30, 2011)

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	S as SO2
LSFO	8,918,122	66.9	1,159.40	62.4	312.1	7.5
Coker	12,453,310	93.4	1,618.90	87.2	435.9	10.3
FCC	20,193,814	151.5	2,625.20	141.4	706.8	16.8
Isomax	13,976,343	119.8	1,844.70	126.6	658.1	38.1
Alky Flare	2,325,471	17.4	302.3	16.3	81.4	1.9
Total	57,867,060	449	7,550.50	433.9	2,194.30	74.6

Quarter IV (October 1, 2011 - December 31, 2011)

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	S as SO2
LSFO	7,648,146	65.2	1,013.70	71.6	373.7	6.2
Coker	12,198,849	92.6	1,603.80	86.6	433.4	13
FCC	22,402,288	389.3	3,651.30	1,072.90	6,177.00	1,153.60
Isomax	12,555,760	116.5	1,567.80	117.6	618.7	357
Ground Flare						
Alky Flare	2,078,444	15.8	270.9	16.8	86.2	1.7
Total	56,883,487	679.4	8,107.50	1,366.50	7,689	1,531.50