



South Coast Air Quality Management District

**Tesoro Carson Refinery (formerly BP Carson)
2019 Rule 1118 Quarterly Flare Emissions**

Emission Target

2019 SOx Emissions Target (lbs)	Year-to-Date SOx Emissions (lbs)
95,200	4,091.5

Quarter I (January 1, 2019 - March 31, 2019):

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
5 Flare	12,026,972	90.2	1,563.5	84.2	420.9	10.0
FFHDS	4,450,326	33.4	578.5	31.2	155.8	3.7
HC	9,004,842	67.6	1,170.5	64.6	315.8	14.3
FCC	5,248,343	39.4	682.2	37.4	184.0	4.4
S. Flare-Coker	9,764,539	84.9	1,229.2	724.1	640.9	492.4
Total	40,495,022	315.5	5,224.0	941.4	1,717.4	524.7

Quarter II (April 1, 2019 - June 30, 2019):

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
5 Flare	36,044,440	618.5	2,549.7	14,083.7	6,940.3	118.8
FFHDS	10,137,683	152.9	786.0	2,346.8	1,243.2	434.7
HC	9,247,765	70.1	1,197.9	102.6	339.7	19.0
FCC	6,952,747	85.9	796.5	2,355.0	1,247.4	268.2
S.Flare-Coker	9,135,136	70.8	1,177.9	171.7	364.9	184.4
Total	71,517,772	998.2	6,507.9	19,059.8	10,135.5	1,025.0

Quarter III (July 1, 2019 - September 30, 2019):

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
5 Flare	12,279,989.2	92.1	1,596.4	86.0	429.8	10.2
FFHDS	4,367,560.4	32.8	567.8	30.6	152.9	3.6
HC	9,312,060.0	69.9	1,210.5	66.1	326.3	7.7
FCC	5,491,806.0	41.2	713.9	38.4	192.2	4.6
S.Flare-Coker	9,445,429.4	74.9	1,219.4	338.4	448.9	2,039.9
Total	40,896,845	310.8	5308.0	559.5	1550.1	2066.0

Quarter IV (October 1, 2019 - December 31, 2019):

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
5 Flare	12,158,982	91.3	1580.3	89.2	427.2	10.1
FFHDS	4,416,002	33.1	574.0	31.6	154.8	3.7
HC	16,502,418	222.3	1610.7	4875.7	2582.0	420.5
FCC	5,389,816	40.5	700.5	39.7	189.5	4.5
S.Flare-Coker	9,083,700	68.2	1180.6	68.2	319.9	36.9
Total	47,550,919	455.4	5646.1	5104.3	3673.4	475.7

*All data is subject to change per Rule 1118 reporting standards