

## Emission Sources - Maximum Allowable Emission Rates

Permit Number 83822

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

### Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY
MSS-QE1E-VAC	QE-1 East Vacuum Trucks	VOC	1.66	0.16
MSS-QE1W-VAC	QE-1 West Vacuum Trucks	VOC	1.66	0.16
MSS-Q1-VAC	Q-1 Vacuum Trucks	VOC	1.66	0.16
MSS-ABIII-VAC	ABIII Vacuum Trucks	VOC	1.66	0.16
MSS-QE1E-VAC, MSS-QE1W-VAC, MSS-Q1-VAC, and MSS-ABIII-VAC	Annual Vacuum Truck Limit	VOC	--	0.16
MSS-QE1E-FRAC	QE-1 East Frac Tanks	VOC	4.32	0.24
MSS-QE1W-FRAC	QE-1 West Frac Tanks	VOC	4.32	0.24
MSS-Q1-FRAC	Q-1 Frac Tanks	VOC	4.32	0.24
MSS-ABIII-FRAC	ABIII Frac Tanks	VOC	4.32	0.24
MSS-QE1E-FRAC, MSS-QE1W-FRAC, MSS-Q1-FRAC, and MSS-ABIII-FRAC	Annual Frac Tank Limit	VOC	--	0.24
MSS-QE1E-RM	QE-1 East Routine Maintenance	VOC	0.10	0.01
MSS-QE1W-RM	QE-1 West Routine Maintenance	PM/PM <sub>10</sub>	0.04	0.01
		VOC	3.65	0.01
		NH3	0.01	0.01
MSS-QE1-MWW	QE-1 Maintenance Wastewater	VOC	0.03	0.01

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MSS-QE1-VC	QE-1 Vessel Clearing	VOC	612.21	1.01
MSS-QE1E-TK	QE-1 East Tank - MSS	CO	0.19	0.01
		NO <sub>x</sub>	0.09	0.01
		VOC	17.86	0.36
MSS-QE1W-TK	QE-1 West Tank - MSS	CO	0.26	0.01
		NO <sub>x</sub>	0.13	0.01
		VOC	16.32	0.11
MSS-Q1-RM	Q-1 Routine Maintenance	VOC	0.23	0.01
MSS-Q1-MWW	Q-1 Maintenance Wastewater	VOC	1.01	0.01
MSS-Q1-VC	Q-1 Vessel Clearing	VOC	13.05	0.01
MSS-Q1-TK	Q-1 Tank MSS	CO	0.25	0.01
		NO <sub>x</sub>	0.13	0.01
		VOC	2.05	0.08
MSS-ABIII-RM	AB-III Routine Maintenance	VOC	6.22	0.01
MSS-ABIII-MWW	AB-III Maintenance Wastewater	VOC	0.72	0.01
MSS-ABIII-VC	AB-III Vessel Clearing	VOC	14.09	0.13
MSS-ABIII-TK	AB-III Tank MSS	CO	2.21	0.01
		NO <sub>x</sub>	1.10	0.01
		VOC	13.44	0.14
L3FLARE	AB-III Tank Flare	CO	351.85	5.36
		NO <sub>x</sub>	69.05	1.05
		VOC	457.00	7.01

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QE3050B	ARU Flare	CO	187.2	11.44
		NO <sub>x</sub>	36.00	2.21
		VOC	155.47	5.66
QE8050B	Elevated Flare	CO	3276.00	60.62
		NO <sub>x</sub>	630.00	11.66
		VOC	2250.00	27.82
QE1Furnaces	Furnace 1-9	CO	138.84	0.42
		NO <sub>x</sub>	161.20	0.48
QE1Boilers	Boiler A & B	CO	60.28	0.18
		NO <sub>x</sub>	65.00	0.20
UTBLR	Utility Boiler G & H	CO	160.00	1.50
		NO <sub>x</sub>	160.00	1.50
HSFLARE	Q1 Flare	CO	159.47	2.73
		NO <sub>x</sub>	31.30	0.54
		VOC	203.55	3.49

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources use area name or fugitive source name.
- (3) CO - carbon monoxide  
NO<sub>x</sub> - total oxides of nitrogen  
PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>  
PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter  
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- (4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.

\* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day \_\_\_ Days/week \_\_\_ Weeks/year \_\_\_ or Hrs/year 8,760

\*\* Compliance with annual emission limits is based on a rolling 12-month period.

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Date: February 8, 2013