

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 20057

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. 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)	<u>Emission Rates *</u> lb/hr	
<u>TPY</u>				
<u>DMTA OPERATION</u>				
K-1798	Flare Stack	PM	<0.01	<0.01
		VOC	<0.01	<0.01
		NO <sub>x</sub>	0.02	0.07
		SO <sub>2</sub>	<0.01	<0.01
		CO	0.02	0.07
K-1790	Vent Stack	PM	<0.01	0.01
		VOC	0.40	1.74
		NO <sub>x</sub>	2.06	9.05
		SO <sub>2</sub>	0.52	2.29
		CO	0.05	0.23
		Cl <sub>2</sub>	<0.01	0.09
		HCl	0.10	0.44
		H <sub>2</sub> S	0.01	0.02
WB-1769	HMP Scrubber	VOC	0.1	<0.03
		Formaldehyde	<0.01	<0.001
		MEK	0.01	0.001
		MeOH	0.01	0.001
S582F-1	Storage Tank Farm (4)	VOC	1.37	6.00
		Cl <sub>2</sub>	0.04	0.19
		H <sub>2</sub> S	0.15	0.64
		HCl	0.28	1.22
S582-2	Process Unit Fugitives (4)	VOC	0.88	3.86
PK-1901	Cooling Tower (4)	VOC	0.40	1.76

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<u>TPY</u>				
D-1868	HCl/Cl2 Scrubber	HCl	<0.01	<0.01
K-1892	Carbon Canister	VOC	<0.01	0.01
K-1970	DMTA Generator	VOC	1.59	0.02
		PM	1.39	0.02
		CO	4.24	0.06
		SO <sub>2</sub>	1.30	0.02
		NO <sub>x</sub>	19.65	0.26
<u>HMP OPERATION</u>				
K-1790	Vent Stack	VOC	0.44	0.77
		NO <sub>x</sub>	0.60	0.99
		SO <sub>2</sub>	<0.001	<0.01
		CO	0.10	0.15
		PM	<0.001	<0.01
		Formaldehyde	0.02	0.025
		MEK	<0.01	0.001
		MeOH	0.02	0.07
D-1868	HCl/Cl <sub>2</sub> Scrubber	VOC	0.001	<0.01
S582F-1	Tank Farm Fugitives (4)	VOC	0.16	0.30
		Formaldehyde	0.01	0.03
		MEK	<0.01	<0.01
		MeOH	0.15	0.67
S582F-2	Process Unit Fugitives (4)	VOC	0.42	1.84
		Formaldehyde	<0.01	0.03
		MEK	<0.01	<0.01
		MeOH	0.08	0.35
S582F-3	Wastewater Fugitives (4)	Formaldehyde	<0.01	<0.001
		MEK	<0.01	<0.001

MeOH 0.02 0.07

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- (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) 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. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.  
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1. The VOC does not include hazardous air pollutants.  
NO<sub>x</sub> - total oxides of nitrogen  
SO<sub>2</sub> - sulfur dioxide  
CO - carbon monoxide  
Cl<sub>2</sub> - chlorine  
HCl - hydrochloric acid mist  
H<sub>2</sub>S - hydrogen sulfide  
MEK - methyl ethyl ketone  
MeOH - methyl alcohol
  - (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rates.
- \* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

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<u>TPY</u>			

5,160 hours/yr for DMTA operation and 3,600 hours /yr for HMP operation.

Dated December 17, 2003