

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 4445

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

<u>Emission Rates *</u>	Source	Air Contaminant	<u>Emission</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	
<u>TPY **</u>				
VS-202	Flare	VOC	11.69	47.83
		NO <sub>x</sub> (5)	4.30	18.82
		CO (5)	21.91	95.88
		SO <sub>2</sub>	0.01	0.01
VS-205	Inhibitor System Vent	VOC	5.4	0.47
VS-206	Tank Scrubber	VOC	14.18	4.58
VS-207	Tank Scrubber	VOC	1.63	0.81
VS-208	Tank Scrubber	VOC	0.15	0.35
VS-209	Tank Scrubber	VOC	0.15	0.35
VS-212	Vent Scrubber	VOC	0.08	0.33
VS-216	Marine Loading Flare	VOC	3.09	1.11
		NO <sub>x</sub>	0.42	0.11
		CO	3.00	1.55
		SO <sub>2</sub>	0.01	
VS-315	Polymer Tanks	VOC	28.5	12.7
VS-317	Vent Scrubber	VOC	1.2	4.7
VS-318	Vent Scrubber	VOC	4.9	20.1

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VS-319	Vent Scrubber	VOC	0.1	0.6
VS-320	Vent Scrubber	VOC	0.2	0.8
VS-329	Fluidizing Blower Vent	VOC	3.86	16.9
		PM <sub>10</sub>	<0.01	<0.01
VS-331	Hopper Car Blower Vent	VOC	36.78	42.91
		PM <sub>10</sub>	<0.01	<0.01
VS-332	Hopper Car Blower Vent	VOC	0.67	2.81
		PM <sub>10</sub>	<0.01	0.04
VS-336	C and W Tank	VOC	31.0	9.0
VS-340	Tank	VOC	13.0	0.9
VS-341	Tank	VOC	7.6	1.5
VS-342	Catalyst Day Tank	VOC	30.7	6.0
VS-343	Storage Tank	VOC	23.9	0.4
VS-344	Storage Tank	VOC	12.4	0.2
VS-362	Fluidizing Blower Vent	VOC	3.86	16.9
		PM <sub>10</sub>	<0.01	<0.01
VS-365	Storage Tank	VOC	23.9	0.2
VS-366	Washwater Tank	VOC	12.0	0.2
VS-367	Storage Tank	VOC	30.0	<0.1
VS-368	Seal Flush Pot Vent	VOC	1.4	<0.1
VS-369	Condensate Receiver	VOC	3.5	<0.1

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Point No. (1)	Name (2)	Name (3)	lb/hr	TPY **
VS-371	Condensate Receiver	VOC	0.10	<0.1
VS-372	Dry Products Dust Collector		PM <sub>10</sub>	<0.01
	0.03			
VS-373	Process Tank	VOC	13.3	0.2
VS-374	Process Tank	VOC	36.7	<0.1
VS-375	Process Tank	VOC	0.9	<0.1
VS-376	Dry Products Scrubber	VOC	0.52	1.7
VS-380	North Cooling Tower	VOC	<0.1	<0.1
VS-381	South Cooling Tower (4)		VOC	0.03
	0.13			
VS-382	WW Holding Pond	VOC	2.52	1.2
VS-400	Fugitives (4)	VOC	10.90	47.72
		Methyl Acetate	1.34	5.87

(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) VOC -volatile organic compounds as defined in 30 Texas Administrative Code § 101.1

NO<sub>x</sub> - total oxides of nitrogen

CO - carbon monoxide

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.

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Point No. (1)	Name (2)	Name (3)	lb/hr	TPY **

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

(5) The annual emission rates for CO and NO<sub>x</sub> will be reduced to the following levels by December 31, 2003:

CO - 71.95 tpy \*\*

NO<sub>x</sub> - 14.12 tpy \*\*

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

Hrs/year 8,760

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

Dated \_\_\_\_\_