

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 48710

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)	Emission Rates *	
			lb/hr	TPY**
G-D-1	MP-1 Flare (7)	VOC	80.75	44.36
		NO <sub>x</sub> 7.52	4.13	
		CO 54.30	29.83	
B-D-0	HB-2 Flare	VOC	228.34	143.20
		Aluminum Oxide	54.30	14.90
		HCl 46.19	8.82	
		NO <sub>x</sub> 18.74	17.45	
		CO 135.40	126.12	
C-B-2	T693	VOC	0.88	0.06
C-E-15	C8320	VOC	3.14	0.02
C-G-22	D269	VOC	144.39	1.70
		Aluminum Oxide	0.29	0.01
		HCl 0.05	0.01	
C-G-23	D270	VOC	144.39	1.70
		Aluminum Oxide	0.29	0.01
		HCl 0.05	0.01	
E-A-2	East Blockhouse	VOC	167.45	3.72
		Aluminum Oxide	9.22	0.03
		HCl 3.09	0.01	
E-A-3	West Blockhouse	VOC	167.45	3.72
		Aluminum Oxide	9.22	0.03
		HCl 3.09	0.01	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
C-G-20B	Trailer Load Spot Drybox	VOC	0.03	0.01
		Aluminum Oxide	0.03	0.01
C-A-1A	Trailer Load Spot No. 1	VOC	33.49	(5)
		Aluminum Oxide	1.84	(5)
		HCl 0.62	(5)	
C-A-1B	Trailer Load Spot No. 2	VOC	33.49	(5)
		Aluminum Oxide	1.84	(5)
		HCl 0.62	(5)	
C-A-1C	Trailer Load Spot No. 3	VOC	33.49	(5)
		Aluminum Oxide	1.84	(5)
		HCl 0.62	(5)	
Total Annual Allowables for Trailer Load Spots 1, 2, and 3 (5)			VOC	
	2.56			
		Aluminum Oxide		0.03
		HCl	0.03	
C-A-1I	Alkyl PT Cleanout Spot No. 1	VOC	11.05	(6)
		Aluminum Oxide	0.61	(6)
		HCl 0.51	(6)	
C-A-1J	Alkyl PT Cleanout Spot No. 2	VOC	11.05	(6)
		Aluminum Oxide	0.61	(6)
		HCl 0.51	(6)	
C-A-1K	Alkyl PT Cleanout Spot No. 3	VOC	11.05	(6)
		Aluminum Oxide	0.61	(6)
		HCl 0.51	(6)	
Total Annual Allowables for PT Cleanout Spots 1, 2, and 3 (6)			VOC	
	2.49			
		Aluminum Oxide		0.06
		HCl	0.06	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
C-J-16	D8332 Vacuum Pump Separation Drum Clean Out	VOC	15.17	0.04
C-I-12	JF-5 Alkyl Sample Dry Box X270	VOC	0.02	0.01
F-A-1	Solvent Spot	VOC	0.01	0.01
C-F-7	H-155C	Aluminum Oxide	1.54	1.84
C-F-7	D153B	VOC	0.10	0.02
C-G-1A	D232	VOC	4.03	0.02
C-G-1B	D234	VOC	4.03	0.02
C-H-22	D297	VOC	0.07	0.01
C-B-0	East Drainage Basin	VOC	0.04	0.01
C-E-10C	R201C Reactor Dip Pipe Clean Out (4)	Aluminum Oxide	10.31	0.12

(1) Emission point identification - either specific equipment designation or emission point number from a plot plan.

(2) Specific point source names. For fugitive sources, use an area name or fugitive source name.

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

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

CO - carbon monoxide

HCl - hydrogen chloride

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- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Total annual allowables for Trailer Load Spots 1, 2, and 3.
- (6) Total annual allowables for PT Cleanout Spots 1, 2, and 3.
- (7) Listed emissions are exclusively from the alkyl unit. Flare G-D-1 pilot emissions are authorized under Permit Number 3962.
  - \* Emission rates are based on and the facilities are limited by the following maximum operating schedule:
- \*\* Compliance with annual emission limits is based on a rolling 12-month period.

24 Hrs/day 7 Days/week 52 Weeks/year or 8,760 Hrs/year

Dated July 28, 2006