Permit Numbers 9868A and PSD-TX-102M4

EMISSION CAP TABLE

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.

See Attachment I for Source Name and Emission Point Number Index.

VOC EMISSION CAP

Source Name	Year	lb/hr	TPY
Flares	1995 (Initial)	11,071	10,202
Fired Units (Furnaces, Heaters, Boilers, etc.)	1996	10,978	10,134
FCCU CO Boilers	1997	10,776	9,912
Engines	1998	8,908	9,795
Cooling Towers	1999	4,941	9,374
Wastewater (4)	2000	4,399	7,396
Tanks	2001	4,229	7,140
Truck and Rail Loading	2002	4,068	6,718
Fugitives (4)	2003	3,760	6,320
Incinerators	2004	3,436	5,924
Vents (56V1)	2005	3,111	5,552
	2006 (Final)	2,329	5,082

NO_x EMISSION CAP

Source Name	Year	lb/hr	TPY
Flares	1995 (Initial)	2,082	4,632
Fired Units (Furnaces, Heaters, Boilers, etc.)	1996	2,014	4,632
FCCU CO Boilers	1997	1,957	4,632
Engines	1998	1,957	4,632
Incinerators	1999	1,843	4,452
	2000	1,753	3,699
	2001	1,697	3,456
	2002	1,590	3,115
	2003	1,519	2,802
	2004	1,519	2,804
	2005	1,519	2,810
	2006 (Final)	1,626	2,908

NO_x EMISSION SUB CAP FOR BOILERS 81B17 AND 81B18 (5)

<u>EPNs</u>	Year	lb/hr	TPY
81B17 and 81 B18	2002 (final)	68	57

Source Name	Year	lb/hr	TPY
Flares	1995 (Initial)	7,128	12,740
Fired Units (Furnaces, Heaters, Boilers, etc.)	1996	7,004	12,560
FCCU CO Boilers	1997	6,880	12,016
Engines	1998	6,880	12,017
Incinerators	1999	6,877	12,015
Sulfur Handling	2000	6,850	11,934
Fugitives (4)	2001	6,850	11,934
Wastewater (4)	2002	6,847	11,927
	2003	6,847	11,927
	2004	6,848	11,928
	2005	6,848	11,929
	2006 (Final)	6,853	5,201

CO EMISSION CAP

Year	lb/hr	TPY
1995 (Initial)	1,285	5,305
1996	1,295	5,305
1997	1,302	5,305
1998	1,302	5,305
1999	1,260	5,305
2000	1,204	4,758
2001	1,206	4,765
2002	1,164	4,642
2003	1,168	4,606
2004	1,173	4,610
2005	1,174	4,618
2006 (Final)	1,250	4,947
	1995 (Initial) 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005	1995 (Initial) 1,285 1996 1,295 1997 1,302 1998 1,302 1999 1,260 2000 1,204 2001 1,206 2002 1,164 2003 1,168 2004 1,173 2005 1,174

PM EMISSION CAP

Source Name	Year	lb/hr	TPY
Some	TEAL	11 1/ 1 11	1 1 7 1

Flares	1995 (Initial)	271	1,129
Fired Units (Furnaces, Heaters, Boilers, etc.)	1996 `	271	1,129
FCCU CO Boilers	1997	271	1,129
Engines	1998	271	1,129
Incinerators	1999	271	1,129
	2000	261	1,125
	2001	261	1,125
	2002	261	1,125
	2003	261	1,125
	2004	261	1,124
	2005	261	1,119
	2006 (Final)	261	1,111

H₂S EMISSION CAP

Year	lb/hr	TPY
1995 (Initial)	128	307
1996	126	299
1997	125	292
1998	128	305
1999	120	243
2000	43	115
2001	42	108
2002	42	108
2003	42	108
2004	37	103
2005	38	104
2006 (Final)	37	97
	1995 (Initial) 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005	1995 (Initial) 128 1996 126 1997 125 1998 128 1999 120 2000 43 2001 42 2002 42 2003 42 2004 37 2005 38

HCI EMISSION CAP

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Flores	1005 (Initial)	10	20
Flares	1995 (Initial)	13	30
Fugitives (4)	1996	13	30
	1997	12	28
	1998	12	28
	1999	12	28
	2000	5.7	25
	2001	5.7	25
	2002	5.7	25
	2003	5.7	25
	2004	5.7	25
	2005	5.7	25
	2006 (Final)	5.7	25

NH₃ EMISSION CAP

Source Name	Year	lb/hr	TPY
Fugitives (4)	1995 (Initial)	82	355
Wastewater (4)	1996	82	355
Vent (32V1)	1997	82	355
Tank (3003)	1998	82	355
	1999	5	7
	2000	2.0	5.4
	2001	2.0	5.4
	2002	2.0	5.4
	2003	2.0	5.5
	2004	2.0	5.5
	2005	2.0	5.5
	2006 (Final)	2.0	5.5

HF EMISSION CAP

Source Name	Year	lb/hr	TPY
Fugitives (4)	1995 (Initial)	0.56	2.44
	1996	0.56	2.44
	1997	0.56	2.44
	1998	0.56	2.44
	1999	0.56	2.44
	2000	0.43	1.9
	2001	0.43	1.9
	2002	0.43	1.9
	2003	0.43	1.9
	2004	0.43	1.9
	2005	0.43	1.9
	2006 (Final)	0.43	1.9

SPECIATED VOC EMISSION CAPS

Benzene CAP

Source Name	Year	lb/hr	TPY
Flares	1995 (Initial)	47	78
Tanks	1996	45	75
Truck and Rail Loading	1997	42	68
Fugitives (4)	1998	41	67
Wastewater (4)	1999	22	65
` '	2000	14	35
	2001	13	34
	2002	13	33
	2003	13	33
	2004	12	32
	2005	12	32
	2006 (Final)	11	31

Cyclohexane CAP

Source Name	Year	lb/hr	TPY
Flares	1995 (Initial)	828	316
Tanks	1996	827	316
Truck and Rail Loading	1997	813	268
Fugitives (4)	1998	308	223
Wastewater (4)	1999	104	211
	2000	89	118
	2001	89	120
	2002	89	118
	2003	89	116
	2004	82	107
	2005	82	107
	2006 (Final)	74	95

Ethylbenzene CAP

Source Name	Year	lb/hr	<u>TPY</u>
Flares	1995 (Initial)	15	61
Tanks	1996	15	61
Fugitives (4)	1997	15	61
Wastewater (4)	1998	14	60
	1999	13	55
	2000	12	50
	2001	1.8	6.8
	2002	1.8	6.7
	2003	1.8	6.7
	2004	1.7	6.6
	2005	1.7	6.6
	2006 (Final)	1.6	6.6

Hexane CAP

Source Name	Year	lb/hr	TPY
Flares Tanks Truck and Rail Loading Fugitives (4) Wastewater (4)	1995 (Initial) 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 (Final)	1,353 1,353 1,333 576 163 111 112 111 112 112 111	400 399 368 350 341 141 144 140 121 119 119
	Toluene CAP		
Source Name	Year	lb/hr	TPY
Flares Tanks Fugitives (4) Wastewater (4)	1995 (Initial) 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 (Final)	104 103 102 76 29 22 21 21 21 20 20 19	110 106 102 101 97 59 58 57 57 56 56

Xylene CAP

Source Name	Year	lb/hr	TPY
Flares	1995 (Initial)	15	67
Tanks	1996	14	63
Fugitives (4)	1997	14	63
Wastewater (4)	1998	13	63
. ,	1999	13	60
	2000	7.9	41
	2001	7.9	41
	2002	7.8	41
	2003	7.8	41
	2004	7.6	41
	2005	7.0	40
	2006 (Final)	6.9	40

- (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 area name or fugitive source name.
- (3) VOC volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

CO - carbon monoxide

PM - particulate matter, suspended in the atmosphere, including PM₁₀

 PM_{10} - 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.

H₂S - hydrogen sulfide

HCl - hydrogen chloride

NH₃ - ammonia

HF - hydrogen fluoride

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

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	EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES
(5)	emission rate. The $NO_{\scriptscriptstyle X}$ emissions in this subcap are also included in the overall $NO_{\scriptscriptstyle X}$ cap.
sche	Emission rates are based on and the facilities are limited by the following maximum operating edule:
	Hrs/dayDays/weekWeeks/year or Hrs/year_8,760_
	Dated