#### Permit Numbers 18838 and PSD-TX-843

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	Source	Air (	Contaminant	Emission Rates *			
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY**		
AH-PXP-1N	Analyzer Vent		VOC	0.01	0.01		
AH-PXP-1S	Analyzer Vent		VOC	0.01	0.01		
DG-1	Aromatics Degreaser No. 2	1	VOC	0.15	0.65		
DG-2	Aromatics Degreaser No. 2	2	VOC	0.15	0.65		
DG-3	Aromatics Degreaser No. 3	3	VOC	0.15	0.65		
DG-5	Aromatics Degreaser No. 5	5	VOC	0.15	0.65		
EH-31		O <sub>x</sub> M <sub>10</sub>	CO 0.79 0.06 SO <sub>2</sub> VOC	0.67 3.48 0.26 0.01 0.04	2.92 0.02 0.19		
EH-37	No. 2 Lift Station Middle (330 hours per year)		CO NO <sub>x</sub> PM <sub>10</sub> SO <sub>2</sub> 0.25	1.15 1.75 0.01 0.01 0.04	0.19 0.29 0.01 0.01		
EH-37A	No. 2 Lift Station North (100 hours per year)		CO NO <sub>x</sub> PM <sub>10</sub> SO <sub>2</sub> 0.27	1.26 1.92 0.01 0.01 0.02	0.06 0.10 0.01 0.01		

# AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2	<b>)</b>	Air Contam Name (		Emission Rate	<u>s *</u> TPY**
EH-39	Emergency Fire W hours per year) $PM_{10}  0.77  0.01$ $SO_2  0.72  0.01$	ater Pump	CO 2.34 0		10/111	<u>-11-1 -</u>
	302 0.72 0.01		VOC 0.88 0	0.01		
EH-40 (26	Emergency Fire W hours per year) $PM_{10} 0.84 0.01$ $SO_2 0.78 0.01$	•		0.03		
	302 0.70 0.01		VOC 0.95 0	0.01		
EH-57 (26	Emergency Fire W hours per year) PM <sub>10</sub> 1.15 0.01	•		).05		
	SO <sub>2</sub> 1.07 0.01		VOC 1.31 0	0.02		
EH-9201	Reboiler B-9201	CO 2.89	7.71 NO <sub>x</sub> (7) 7 PM <sub>10</sub> 0.72 1			
	SO <sub>2</sub> 0.09 0.23 VOC 0.20 0.54		1 WI 0.72 I			
EH-9301	Heater B-9301	CO 1.79	5.52 NO <sub>x</sub> (7) 4 PM <sub>10</sub> 0.45 1			
	SO <sub>2</sub> 0.05 0.16 VOC 0.25 0.77		FIW10 0.45 I			
EH-9400	Reboiler B-9400	CO 1.10	3.44			

NO<sub>x</sub> (7) 2.75 7.75

# AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission Rates *		
Point No. (1)	Name (2)	Name (3)	lb/hr TPY**		
	VOC 0.15 0.48	PM <sub>10</sub> 0.28 0.86 SO <sub>2</sub> 0.03 0.10			
EH-9401	Reboiler B-9401 CO	6.13 23.21 NO <sub>x</sub> (7) 15.32 46.43 PM <sub>10</sub> 1.53 5.80			
	SO <sub>2</sub> 0.18 0.69 VOC 0.43 1.64				
EH-9402	Reboiler B-9402 CO	1.12 2.63 $NO_x$ (7) 2.79 5.91 $PM_{10}$ 0.28 0.66			
	SO <sub>2</sub> 0.03 0.08 VOC 0.16 0.37	1 W <sub>10</sub> 0.20 0.00			
EH-9601 (Nor	Flare Paraxylene Unit mal Operation Only) NO <sub>x</sub> SO <sub>2</sub> 0.02 0.08	CO 1.57 6.86 0.31 1.35			
	302 0.02 0.00	VOC 1.12 4.92			
	enance Operation Only hours per year) NO <sub>x</sub>				
(400 fiddis per year) 140 <sub>x</sub>		SO <sub>2</sub> 1.09 0.25 VOC 15.99 3.67			
	enance Operation Only hours per year) (9) NO <sub>x</sub>				
(012	modis per year) (e) Trex	SO <sub>2</sub> 0.16 0.05 VOC 55.15 18.53			
EH-9602	Wharf Loading VCS	CO 2.30 5.04 NO <sub>x</sub> 7.40 16.21 VOC 13.79 11.75			

# AIR CONTAMINANTS DATA

Emission Source				Conta	minant	Emission Ra	Emission Rates *		
Point No. (1)	Name (2)			Nam	e (3)		lb/hr	TPY**	
EH-9603 Oxid	Wharf Tank Farm Thermal izer $NO_x$ 0.20 0.88 $PM_{10}$ 0.26 1.14 $SO_2$ 0.01 0.01	CC	)	0.35					
EH-9604 Oxid	Refinery Tank Farm Thermal	CC	)	0.86 0.12	0.53				
		V		0.31	1.34				
EH-9616 (876	Emergency Fire Water Pump hours per year) $NO_x$ 16.9 $PM_{10}$ 1.20 0.02			3.65	0.05				
	SO <sub>2</sub> 1.12 0.01	V	ОС	1.37	0.02				
EM-2 Coolir	g Tower No. 2 VOC 0.63	2.7	'6						
EM-37	Carbon Adsorption System			(5) (6) (8)	4.30 )	0.01 0.41	0.12		
EM-38	Carbon Adsorption System			(5) (6) (8)	4.30 )		0.12		
EM-9601	Cooling Tower M-9601 VOC	0.5	0	2.21					
ET-4 Sulfur	ic Acid Storage Tank H <sub>2</sub> S	<b>O</b> <sub>4</sub>		0.01	0.01				
ET-34	Reformate Storage Tank VOC	0.8	31	1.05					
ET-79	Sulfuric Acid Storage Tank	H <sub>2</sub> S	SO	ļ.	0.01	0.01			
ET-1201	Diesel Storage Tank VOC	0.2	26	0.01					
ET-9621	Diesel Storage Tank VOC	0.2	26	0.01					

EF-3	Process Fugitives (4)	VOC	0.59	2.56	
EF-4	Process Fugitives (4)	VOC	0.16	0.72	
EF-6	Process Fugitives (4)	VOC	0.27	1.19	
EF-9	Process Fugitives (4)	VOC	1.35	5.90	
EF-10	Process Fugitives (	4)	VOC	0.26	1.12
EF-11	. Process Fugitives (	4)	VOC	0.06	0.26
EF-17	Process Fugitives (	4)	VOC	0.28	1.24

- (1) Emission point identification either specific equipment designated 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
  - H<sub>2</sub>SO<sub>4</sub> sulfuric acid
  - NO<sub>x</sub> total oxides of nitrogen
  - $PM_{10}$  particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
  - SO<sub>2</sub> sulfur dioxide
  - VOC volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Four hours per year from EPNs EM-37 and EM-38 is allowed.
- (6) Emission allowables shown for EPNs EM-37 and EM-38 do not emit at the same time during planned maintenance activities.
- (7) PSD-TX-843 pollutant
- (8) 568 hours per rolling 12 months
- (9) 672 hours per rolling 12 months when the vapor control system to EPN EH-9602 for control of collected VOC emissions from barge and ship loading is down for planned maintenance.

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*	<b>Emission</b>	rates	are	based	on a	and t	he	facilities	are	limited	by th	e fo	ollowing	maximum	operat	ting
sch	edule:															

Hrs/day 24 Days/week 7 Weeks/year 52

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

Dated <u>October 25, 2007</u>