

# Emission Sources - Certified Emission Rates

Registration Number 97111

This table lists the certified emission rates and all sources of air contaminants on the applicant's property covered by this registration. The emission rates shown are those derived from information submitted as part of the registration for PBR.

## Air Contaminants Data

CERTIFIED SITEWIDE EMISSIONS															
EPN / Emission Source	Specific VOC or Other Pollutants	VOC		NOx		CO		PM <sub>10</sub> /PM <sub>2.5</sub>		SO <sub>2</sub>		Other		Other	
		lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy
CONTINUOUS															
HT / 0.50 MMBtu/hr heater treater		<0.01	0.01	0.05	0.22	0.04	0.18	<0.01	0.02	<0.01	<0.01				
FUG / Sitewide fugitives		0.48	2.10												
DAYS 1-60															
TANK1/400 bbl crude oil tank		0.05	0.03												
TANK2/400 bbl crude oil tank		0.05	0.03												
TANK3/400 bbl crude oil tank		0.05	0.03												
TANK4 / 400 bbl produced water tank		<0.01	<0.01												
C LOAD / Crude loading		6.70	0.85												
PW LOAD / Produced water loading		0.22	0.01												
COMB / Two 2.00 MMBtu/hr MRW combustors		3.44	3.72	0.35	0.38	0.29	0.31	0.03	0.03	<0.01	<0.01				
FLARE / Process flare		8.02	5.77	3.82	2.75	7.63	5.49	<0.01	<0.01	<0.01	<0.01				
REMAINDER OF YEAR															
TANK1/400 bbl crude oil tank		0.05	0.13												
TANK2/400 bbl crude oil tank		0.05	0.13												
TANK3/400 bbl crude oil tank		0.05	0.13												
TANK4 / 400 bbl produced water tank		<0.01	<0.01												
C LOAD / Crude loading		6.70	3.14												
PW LOAD / Produced water loading		0.22	0.06												
COMB / 3.60 MMBtu/hr MRW combustor		3.44	7.82	0.35	1.16	0.29	0.96	0.03	0.10	<0.01	0.01				
FLARE / Process flare (5)		Removed from operation after 60 days.													
TOTAL EMISSIONS (lbs/hr):		19.01		4.22		7.96		0.03		<0.01					
TOTAL EMISSIONS (TPY):			23.96		4.51		6.94		0.15		0.01				
MAXIMUM OPERATING SCHEDULE:		Hours/Day		24	Days/Week		7	Weeks/Year		52	Hours/Year		8,760		

\* Hourly emissions are based on days 1-60, which represent the highest hourly emission rates.

\*\* No planned MSS emissions have been represented or reviewed for this registration.

- (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 Title 30 Texas Administrative Code § 101.1
- NO<sub>x</sub> - total oxides of nitrogen
- CO - carbon monoxide
- SO<sub>2</sub> - sulfur dioxide

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PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented

PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter

(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations. Emission values should be used for federal applicability.

Effective  
Date:

August 15, 2011