

# Emission Sources - Certified Emission Rates

Registration Number 94807

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		NO <sub>x</sub>		CO		PM <sub>10</sub> /PM <sub>2.5</sub>		SO <sub>2</sub>		Formaldehyde*		Other	
ENG1 (MC2166) / 32.3 hp Continental TM-27 flash gas compressor engine		11.80	0.88	0.80	3.51	1.51	6.63	0.01	0.03	<0.01	<0.01	0.01	0.03		
ENG1 / Compressor blowdowns		11.62**	0.12**												
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				
TANK1/500 bbl crude oil tank		0.18	0.77												
TANK2/500 bbl crude oil tank		0.18	0.77												
TANK3/500 bbl crude oil tank		0.18	0.77												
TANK4/500 bbl crude oil tank		0.18	0.77												
TANK5 / 500 bbl produced water tank		<0.01	0.01												
TANK6 / 500 bbl produced water tank		<0.01	0.01												
TANK7 / 500 bbl produced water tank		<0.01	0.01												
TANK8 / 500 bbl produced water tank		<0.01	0.01												
C LOAD / Crude loading		6.26	3.24												
PW LOAD / Produced water loading		0.21	0.21												
COMB / 9.20 MMBtu/hr Leed combustor		2.85	12.48	0.90	3.94	0.76	3.33	0.07	0.31	0.01	0.02				
FLARE / 2.00 MMBtu/hr flare (up to 876 hours per year)		0.62	0.27	0.28	0.12	0.55	0.24	<0.01	<0.01	<0.01	<0.01				
FUG / Sitewide fugitives (5)		0.85	3.73												
TOTAL EMISSIONS (lbs/hr):		23.32		2.03		2.86		0.08		0.01		0.01			
TOTAL EMISSIONS (TPY):			23.94		7.79		10.38		0.36		0.02		0.03		
MAXIMUM OPERATING SCHEDULE:		Hours/Day		24	Days/Week		7	Weeks/Year		52	Hours/Year		8,760		

\* Formaldehyde emissions are included in the total VOC emissions.

\*\* MSS emissions from compressor blowdowns are included with the VOC emissions from normal operations for the 32.3 hp Continental TM-27 flash gas compressor engine (EPN ENG1). VOC emission rates for the MSS emissions from compressor blowdowns are based on 1,000 SCF per blowdown, 1 hour per blowdown, and 20 blowdowns per year for the flash gas compressor engine. No other planned MSS emissions have been represented or reviewed.

- (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

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- CO - carbon monoxide
- SO<sub>2</sub> - sulfur dioxide
- 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:

July 12, 2011