

# EMISSION SOURCES - CERTIFIED EMISSION RATES

Registration Number 95263

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

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
ENG1 (MC3704)	145 hp Caterpillar G3306 NA flash gas compressor engine equipped with NSCR and AFRC (Serial Number: G6X06746)	VOC	0.42	1.82
		H <sub>2</sub> CO (included in VOC)	0.10	0.42
		NO <sub>x</sub>	0.64	2.79
		CO	1.28	5.59
		PM <sub>10</sub> /PM <sub>2.5</sub>	0.02	0.10
		SO <sub>2</sub>	<0.01	<0.01
ENG1	Compressor blowdowns	VOC	5.22	0.05
ENG2 (MC3710)	145 hp Caterpillar G3306 NA flash gas compressor engine equipped with NSCR and AFRC (Serial Number: G6X06747)	VOC	0.42	1.82
		H <sub>2</sub> CO (included in VOC)	0.10	0.42
		NO <sub>x</sub>	0.64	2.79
		CO	1.28	5.59
		PM <sub>10</sub> /PM <sub>2.5</sub>	0.02	0.10
		SO <sub>2</sub>	<0.01	<0.01
ENG3 (MC1377)	46 hp Compressco GJ230 flash gas compressor engine (Serial Number: FP51116)	VOC	0.05	0.24
		H <sub>2</sub> CO (included in VOC)	<0.01	<0.01
		NO <sub>x</sub>	1.67	7.30
		CO	1.88	8.25
		PM <sub>10</sub> /PM <sub>2.5</sub>	<0.01	<0.01
		SO <sub>2</sub>	<0.01	<0.01
ENG4	18 hp Kohler CH18S water pump engine (Serial Number: 001H10Y)	VOC	0.01	0.03
		H <sub>2</sub> CO (included in VOC)	<0.01	<0.01
		NO <sub>x</sub>	0.08	0.36
		CO	2.00	8.74

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		PM <sub>10</sub> /PM <sub>2.5</sub>	<0.01	<0.01
		SO <sub>2</sub>	<0.01	<0.01
PU	1.00 MMBtu/hr production unit	VOC	0.01	0.04
		NO <sub>x</sub>	0.10	0.44
		CO	0.08	0.35
		PM <sub>10</sub> /PM <sub>2.5</sub>	0.01	0.04
		SO <sub>2</sub>	<0.01	<0.01
HT	0.50 MMBtu/hr heater treater	VOC	<0.01	0.02
		NO <sub>x</sub>	0.07	0.31
		CO	0.06	0.26
		PM <sub>10</sub> /PM <sub>2.5</sub>	0.01	0.04
		SO <sub>2</sub>	<0.01	<0.01
TANK1	300 bbl produced water tank	VOC	<0.01	0.01
TANK2	300 bbl produced water tank	VOC	<0.01	0.01
TANK3	300 bbl crude oil tank	VOC	0.01	0.02
TANK4	300 bbl crude oil tank	VOC	0.01	0.02
TANK5	400 bbl crude oil tank	VOC	0.18	0.78
COMB	3.00 MMBtu/hr SFI combustor	VOC	0.75	3.29
		NO <sub>x</sub>	0.292	1.27
		CO	0.24	1.05
		PM <sub>10</sub> /PM <sub>2.5</sub>	0.02	0.09
		SO <sub>2</sub>	<0.01	0.01
C LOAD	Crude loading	VOC	35.68	12.26
PW LOAD	Produced water loading	VOC	0.36	0.90
FUG	Sitewide fugitives (5)	VOC	0.57	2.49

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Air Contaminant	Total Emission Rates	
	lbs/hr	tons per year
VOC	48.92	23.85
H <sub>2</sub> CO (included in VOC)	0.20	0.84
NO <sub>x</sub>	3.49	15.26
CO	6.82	29.83
PM <sub>10</sub> /PM <sub>2.5</sub>	0.08	0.08
SO <sub>2</sub>	0.01	0.02

- (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  
H<sub>2</sub>CO - formaldehyde  
NO<sub>x</sub> - total oxides of nitrogen  
CO - carbon monoxide  
PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented  
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  
SO<sub>2</sub> - sulfur dioxide
- (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:

May 9, 2011