

Emission Sources - Certified Emission Rates

Registration Number 99150

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.

CERTIFIED SITEWIDE EMISSIONS														
EPN / Emission Source	VOC		NOx		CO		PM ₁₀ /PM _{2.5}		SO ₂		H ₂ S		CH ₂ O*	
	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy
C-1 / 1,775 hp Caterpillar G3606 LE compressor engine equipped with NSCR catalyst (Serial Number: 4ZS01418)	0.93	4.06	1.96	8.57	0.54	2.35	<0.01	<0.01	0.02	0.10			0.19	0.82
C-2 / 1,775 hp Caterpillar G3606 LE compressor engine equipped with NSCR catalyst (Serial Number: 4ZS01419)	0.93	4.06	1.96	8.57	0.54	2.35	<0.01	<0.01	0.02	0.10			0.19	0.82
C-3 / 1,775 hp Caterpillar G3606 LE compressor engine equipped with NSCR catalyst (Serial Number: 4ZS01435)	0.93	4.06	1.96	8.57	0.54	2.35	<0.01	<0.01	0.02	0.10			0.19	0.82
C-4 / 1,775 hp Caterpillar G3606 LE compressor engine equipped with NSCR catalyst (Serial Number: 4ZS01433)	0.93	4.06	1.96	8.57	0.54	2.35	<0.01	<0.01	0.02	0.10			0.19	0.82
T-1 / 300 bbl produced water storage tank	<0.01	0.01									<0.01	<0.01		
T-2 / 300 bbl produced water storage tank	<0.01	0.01									<0.01	<0.01		
T-3 / 300 bbl produced water storage tank	<0.01	0.01									<0.01	<0.01		
T-4 / 300 bbl produced water storage tank	<0.01	0.01									<0.01	<0.01		
LOAD / Produced water truck loading	0.17	<0.01									<0.01	<0.01		
FUG / Sitewide fugitives	0.67	2.93									<0.01	0.01		
MSS / Maintenance, startup, and shutdown emissions	13.15	0.21			10.72	0.17							10.68	0.17
TOTAL EMISSIONS (lbs/hr):	17.71		7.84		12.88		<0.01		0.09		<0.01		11.44	
TOTAL EMISSIONS (TPY):		19.42		34.28		9.57		0.02		0.41		0.01		3.45
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.

** Planned MSS emissions include compressor blowdowns and engine control downtime. Compressor blowdowns are based on four blowdowns per engine per year and 30 minutes per blowdown. Engine control downtime is based on quarterly engine maintenance for each engine and two hours of runtime until the engine reaches the maximum operating temperature. 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
- CH₂O - formaldehyde
- NO_x - total oxides of nitrogen
- CO - carbon monoxide
- PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
- PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
- SO₂ - sulfur dioxide
- H₂S - hydrogen sulfide
- (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.

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Effective
Date:

November 17, 2011
