

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 18899

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, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

## Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
C-HTR	Hot Oil Heater Train C	VOC	0.03	0.12
		CO	0.41	1.80
		NO <sub>x</sub>	0.49	2.15
		PM	0.04	0.16
		PM <sub>10</sub>	0.04	0.16
		PM <sub>2.5</sub>	0.04	0.16
		SO <sub>2</sub>	0.01	0.01
907	Flare (6)	CO	85.19	1.70
		NO <sub>x</sub>	16.71	0.32
		SO <sub>2</sub>	0.01	0.01
		VOC	10.51	1.01
C-LOAD	Tank Truck Loading	VOC	0.28	0.01
C-FUG	Train C Fugitives	VOC	1.17	5.14
C-OILWATER	Oil-Water Separator	VOC	0.01	0.01
6080	Tank V-6080	VOC	1.37	0.93
6063	Tank V-6063	VOC	0.01	0.01
6072	Tank V-6072	VOC	0.35	0.12
C-6264	Tank V-6264	VOC	0.01	0.01
C-7422	Tank V-7422	NaOH	0.01	0.01
C-7810	Tank V-7810	VOC	0.01	0.01

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C-7820	Tank V-7820	VOC	0.01	0.01
C-7830	Tank V-7830	VOC	0.01	0.01
C-7840	Tank V-7840	VOC	0.01	0.01
C-7850	Tank V-7850	VOC	0.01	0.01
C-7940	Tank V-7940	VOC	0.01	0.01
1200	Vent Scrubber Train A	BF <sub>3</sub>	0.01	0.01
		NH <sub>3</sub>	0.15	0.64
1201	Water Scrubber	NH <sub>3</sub>	0.15	0.64
1202	Water Scrubber	NH <sub>3</sub>	0.15	0.64
1202A	Water Scrubber	NH <sub>3</sub>	0.15	0.64
1203A	Tank V-6030	VOC	0.18	0.18
1203B	Tank V-6031	VOC	0.18	0.02
1203C	Tank V-6032	VOC	0.18	0.02
1203D	Tank V-6035	VOC	0.02	0.05
1203E	Tank V-6036	VOC	0.18	0.02
1203F	Tank V-6210	VOC	0.18	0.18
1203G	Tank V-6211	VOC	0.18	0.18
1203H	Tank V-6310	VOC	0.23	0.25
1203I	Tank V-6311	VOC	0.23	0.25
1203J	Tank V-6312	VOC	0.23	0.06
1203K	Tank V-6313	VOC	0.23	0.19
1204A	Tank V-6061	VOC	0.69	0.01
1204B	Tank V-6062	VOC	0.69	0.01
1204D	Tank V-6064	VOC	0.01	0.01
1204E	Tank V-6065	VOC	0.01	0.01

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1204F	Tank V-6066	VOC	0.01	0.01
1204G	Tank V-6067	VOC	0.01	0.01
1204H	Tank V-6068	VOC	0.01	0.01
1204I	Tank V-6069	VOC	0.01	0.01
1204J	Tank V-6070	VOC	0.01	0.01
1204K	Tank V-6071	VOC	0.01	0.01
1204N	Tank V-6081	VOC	0.45	0.81
1204O	Tank V-6082	VOC	0.69	0.05
1204P	Tank V-6091	VOC	0.10	0.30
		NH <sub>3</sub>	0.09	0.27
1204Q	Tank V-6092	VOC	0.10	0.30
		NH <sub>3</sub>	0.09	0.27
1205	Hot Oil Heater – A Train	VOC	0.03	0.13
		CO	0.44	1.95
		NO <sub>x</sub>	0.53	2.32
		PM	0.04	0.18
		PM <sub>10</sub>	0.04	0.18
		PM <sub>2.5</sub>	0.04	0.18
		SO <sub>2</sub>	0.06	0.26
1206	A Train Fugitives	VOC	0.87	3.81
		BF <sub>3</sub>	0.06	0.25
		NH <sub>3</sub>	0.02	0.10
1206A	Process Centrifuges	VOC	1.98	8.67
1207A	Tank V-6250	VOC	0.01	0.01
1207B	Tank V-6251	VOC	0.01	0.01

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1207C	Tank V-6252	VOC	0.01	0.01
1207D	Tank V-6253	VOC	0.01	0.01
1207E	Tank V-6254	VOC	0.01	0.01
1207F	Tank V-6255	VOC	0.01	0.01
1207G	Tank V-6256	VOC	0.01	0.01
1207H	Tank V-6257	VOC	0.01	0.01
1207I	Tank V-6258	VOC	0.01	0.01
1207J	Tank V-6259	VOC	0.01	0.01
1207K	Tank V-6260	VOC	0.01	0.01
1207L	Tank V-6261	VOC	0.01	0.01
1207M	Tank V-6262	VOC	0.01	0.01
1207N	Tank V-6263	VOC	0.01	0.01
1207O	Tank V-6264	VOC	0.01	0.01
1207P	Tank V-6265	VOC	0.01	0.01
1207Q	Tank V-6266	VOC	0.01	0.01
1207R	Tank V-6277	VOC	0.02	0.04
		NH <sub>3</sub>	0.04	0.11
1207U	Tank V-6268	VOC	0.02	0.09
		NH <sub>3</sub>	0.04	0.23
1207V	Tank V-6269	VOC	0.02	0.09
		NH <sub>3</sub>	0.04	0.23
1207S	Tank V-6270	VOC	0.01	0.01
1207T	Tank V-6271	VOC	0.01	0.01
1208	Loading	VOC	8.37	0.15

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1209	B Train Scubber	BF <sub>3</sub>	0.01	0.01
		NH <sub>3</sub>	0.20	0.87
		Fluorides	0.01	0.01
1210	B Train Ammonia Scrubber	NH <sub>3</sub>	0.01	0.01
1211	B Train Ammonia Scrubber	NH <sub>3</sub>	0.01	0.01
1212	B Train Fugitives	VOC	0.73	3.16
		BF <sub>3</sub>	0.06	0.27
		NH <sub>3</sub>	0.02	0.10
1213	Hot Oil Treater – B Train	VOC	0.04	0.19
		CO	0.67	2.92
		NO <sub>x</sub>	0.79	3.47
		PM	0.05	0.20
		PM <sub>10</sub>	0.05	0.20
		PM <sub>2.5</sub>	0.05	0.20
		SO <sub>2</sub>	0.09	0.40
1216	Process Hotwells/Centrifuge Fugitives	VOC	0.05	0.22
1217	Oil Water Separators	VOC	0.50	2.38

- (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
  - SO<sub>2</sub> - sulfur dioxide
  - 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
  - CO - carbon monoxide
  - BF<sub>3</sub> - boron trifluoride

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NH<sub>3</sub> - ammonia

NaOH - sodium hydroxide

- (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.
- (6) Contributions from this permitted facility are emitted from this emission point number. The flare is listed in new source review Permit Number 5040 and operated by another company.

Date: January 20, 2016