Emission Sources - Maximum Allowable Emission Rates

Permit Number 3275A

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)
RD-250	Plant flare	VOC	16.84	11.08
		NO_x	2.21	6.79
		SO_2	5.02	0.21
		CO	11.04	48.34
FA-013	Scrubber, A-Plant(6)	VOC (10)	19.69	1.37
		Acids/Bases	0.20	0.10
Total Storage Tank		VOC	20.45	1.97
		Acids/Bases	0.53	0.01
TB-994	Storage Tank (7)	VOC		
TB-995	Storage Tank (7)	VOC		
TB-996	Storage Tank (7)	VOC		
TB-997	Storage Tank (7)	VOC		
TB-998	Storage Tank (7)	VOC		
TC-988	Storage Tank (7)	VOC		
TC-989	Storage Tank (7)	VOC		
TD-950	Storage Tank (7)	VOC		
TD-951	Storage Tank (7)	VOC		

TD-953	Storage Tank (7)	VOC	
TD-978	Storage Tank (7)	VOC	
TD-990	Storage Tank (7)	VOC	
TD-991	Storage Tank (7)	VOC	
TD-992	Storage Tank (7)	VOC	
TD-993	Storage Tank (7)	VOC	
TE-800	Storage Tank (7)	VOC	
TE-803	Storage Tank (7)	VOC	
TE-804	Storage Tank (7)	VOC	
TE-805	Storage Tank (7)	VOC	
TE-906	Storage Tank (7)	VOC	
TE-907	Storage Tank (7)	VOC	
TE-908	Storage Tank (7)	VOC	
TE-909	Storage Tank (7)	VOC	
TE-910	Storage Tank (7)	VOC	
TE-911	Storage Tank (7)	VOC	
TE-912	Storage Tank (7)	VOC	
TE-913	Storage Tank (7)	VOC	
TE-918	Storage Tank (7)	VOC	
TE-919	Storage Tank (7)	VOC	
TE-920	Storage Tank (7)	VOC	
TE-921	Storage Tank (7)	VOC	
TE-922	Storage Tank (7)	VOC	
TE-923	Storage Tank (7)	VOC	

TE-924	Storage Tank (7)	VOC	
TE-925	Storage Tank (7)	VOC	
TE-926	Storage Tank (7)	VOC	
TE-927	Storage Tank (7)	VOC	
TE-928	Storage Tank (7)	VOC	
TE-929	Storage Tank (7)	VOC	
TE-931	Storage Tank (7)	VOC	
TE-932	Storage Tank (7)	VOC	
TE-933	Storage Tank (7)	VOC	
TE-934	Storage Tank (7)	VOC	
TE-935	Storage Tank (7)	VOC	
TE-936	Storage Tank (7)	VOC	
TE-937	Storage Tank (7)	VOC	
TE-938	Storage Tank (7)	VOC	
TE-939	Storage Tank (7)	VOC	
TE-940	Storage Tank (7)	VOC	
TE-941	Storage Tank (7)	VOC	
TE-945	Storage Tank (7)	VOC	
TE-946	Storage Tank (7)	VOC	
TE-947	Storage Tank (7)	VOC	
TE-948	Storage Tank (7)	VOC	
TE-949	Storage Tank (7)	VOC	
TE-960	Storage Tank (7)	VOC	
TE-961	Storage Tank (7)	VOC	

TE-962	Storage Tank (7)	VOC		
TE-963	Storage Tank (7)	VOC		
TE-964	Storage Tank (7)	VOC		
TE-965	Storage Tank (7)	VOC		
TE-966	Storage Tank (7)	VOC		
TE-967	Storage Tank (7)	VOC		
TE-968	Storage Tank (7)	VOC		
TE-970	Storage Tank (7)	VOC		
TE-971	Storage Tank (7)	VOC		
TE-972	Storage Tank (7)	VOC		
TE-973	Storage Tank (7)	VOC		
TE-974	Storage Tank (7)	VOC		
TE-975	Storage Tank (7)	VOC		
TE-980	Storage Tank (7)	VOC		
TE-981	Storage Tank (7)	VOC		
TE-982	Storage Tank (7)	VOC		
TE-983	Storage Tank (7)	VOC		
TE-984	Storage Tank (7)	VOC		
TE-985	Storage Tank (7)	VOC		
TE-986	Storage Tank (7)	VOC		
TE-987	Storage Tank (7)	VOC		
TD-001	Diesel tank (fire water)	VOC	0.03	<0.01
TD-004	Diesel Storage Tank	VOC	0.11	<0.01
TD-005	Gasoline Storage Tank	VOC	3.50	0.05

TD-953	Caustic Storage Tank	NaOH	<0.01	<0.01
Total Loading Emissions (6)(8)		VOC	11.84	5.00
LD-A	Plant-A Drum/Tote Loading (8)	VOC		
LD-B	Plant B Drum/Tote Loading (8)	VOC		
LD-C	Plant C Drum/Tote Loading (8)	VOC		
RAIL	Rail Loading (8)	VOC		
STRUCK	South Truck Loading (8)	VOC		
WTRUCK	West Truck Loading (8)	VOC		
PLNTFUG	Plant Fugitives (5)	VOC	1.11	4.85
		PM	0.02	0.02
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
		Acids/Bases	0.04	0.17
HTR-A	A-Hot Oil Header	VOC	0.03	0.12
		NO_x	0.50	2.19
		SO_2	0.01	0.01
		PM	0.04	0.17
		PM_{10}	0.04	0.17
		$PM_{2.5}$	0.04	0.17
		CO	0.42	1.84
HTR-B	B-Hot Oil Heater	VOC	0.01	0.05
		NO_x	0.20	0.88
		SO_2	0.01	0.01

		PM	0.02	0.07
		PM_{10}	0.02	0.07
		$PM_{2.5}$	0.02	0.07
		CO	0.17	0.74
BLR-A	A-Plant Boiler	VOC	0.05	0.20
		NO_x	0.84	3.67
		SO_2	0.01	0.02
		PM	0.06	0.28
		PM_{10}	0.06	0.28
		$PM_{2.5}$	0.06	0.28
		CO	0.70	3.08
BLR-B	B-Plant Boiler	VOC	0.08	0.35
		NO_x	1.47	6.42
		SO_2	0.01	0.04
		PM	0.11	0.49
		PM_{10}	0.11	0.49
		$PM_{2.5}$	0.11	0.49
		CO	1.23	5.39
UD-556	A-Plant Cooling Tower	VOC	0.04	0.18
		PM	0.10	0.27
		PM_{10}	0.10	0.27
		$PM_{2.5}$	0.10	0.27

UB-551	B-Plant Cooling Tower	VOC	0.04	0.18
		PM	0.10	0.27
		PM_{10}	0.10	0.27
		$PM_{2.5}$	0.10	0.27
ALL WASTEWATER SOURCES		VOC	1.21	0.31
TD-3100	Wastewater Storage Tank	VOC		
MAINSUMP	Wastewater Sump	VOC		
TD-954A	Wastewater Effluent Mod Tank	VOC		
TD-954B	Wastewater Effluent Mod Tank	VOC		
TD-3200A	Contingency WW Tank	VOC		
TD-3200B	Contingency WW Tank	VOC		
TD-3300	Contingency WW Tank	VOC		
TD-3400	Contingency WW Tank	VOC		
TD-3500	Contingency WW Tank	VOC		
TD-3600	Contingency WW Tank	VOC		
TD-3700	Contingency WW Tank	VOC		
PROPANETK1	Propane Tank	VOC	0.01	0.01
DEGSR-01	Solvent Degreaser	VOC	1.34	0.06
Sitewide VOCs (9)		Total VOCs		20.00
Sitewide HAPS (9)		Total HAPs		20.00
Individual HAPs (9)		HAPs		9.9
Routine Maintenance, Startup, and Shutdown (MSS) Emissions				
FUGMSS	Sitewide MSS Emission	VOC	37.47	1.21

	Line Breaks	VOC	0.56	0.02
	Washouts and Water Draws	VOC	1.13	0.17
	Pan Emissions	VOC	0.47	0.02
	Tank Truck Loading (vacuum)	VOC	15.89	0.19
	Frac Tanks	VOC	0.23	0.01
	Priming Pumps	VOC	4.00	0.05
	Aerosol Degreasing/Lubricants	VOC	15.19	0.76
RD-250	Flare	VOC	3.36	1.18
		NO_x	0.26	1.09
		CO	2.22	0.78

(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_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - 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
CO - carbon monoxide
HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
Acids/Bases - acidic or basic emissions
(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) Depending upon the Impacts Index which is defined in Special Condition No. 5, compounds will be vented either to the atmosphere at the individual tanks or loading spots or to the Scrubber (EPN FA-013).
(7) Storage Tanks TB-004 through TE-987 emissions is accounted for under the total storage tank emissions.

(8) Loading Spots LD-A, LD-B, LD-C, RAIL, STRUCK, WTRUCK emissions are accounted for under the total loading emissions.

(9) The emission rates associated with source names Sitewide VOCs, Sitewide HAPs, and Sitewide Individual HAPs include VOC and HAP emissions associated with MSS emissions.

(10) These scrubber emissions do not include potential emissions from tanks and loading that are vented through the scrubber. Controlled storage tank and loading emissions are accounted for under the annual total storage tank emissions and the annual total loading emissions.

Date: April 15, 2016