Emission Sources - Maximum Allowable Emission Rates

Permit Number 150625

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) (6)	Emission Rates	
			lbs/hour	TPY (4)
T-13-1	Storage Tank T-13-1	VOC	1.74	0.10
		IA	<0.01	<0.01
T-13-2	Storage Tank T-13-2	VOC	1.74	0.15
		IA	<0.01	<0.01
T-13-3	Storage Tank T-13-3	VOC	1.73	0.16
		IA	<0.01	<0.01
T-30	Storage Tank T-30	VOC	1.73	0.07
		IA	<0.01	<0.01
T-41	Storage Tank T-41	VOC	1.73	0.20
		IA	<0.01	<0.01
T-46	Storage Tank T-46	VOC	1.73	0.17
		IA	<0.01	<0.01
T-47	Storage Tank T-47	VOC	1.73	0.20
		IA	<0.01	<0.01
T-80	Storage Tank T-80	VOC	1.73	0.15
		IA	<0.01	<0.01
T-81	Storage Tank T-81	VOC	1.73	0.15
		IA	<0.01	<0.01
T-82	Storage Tank T-82	VOC	1.73	0.15
		IA	<0.01	<0.01
T-83	Storage Tank T-83	VOC	1.73	0.15
		IA	<0.01	<0.01
T-85	Storage Tank T-85	VOC	1.73	0.15
		IA	<0.01	<0.01

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T-87	Storage Tank T-87	VOC	1.73	0.15
		IA	<0.01	<0.01
T-90	Storage Tank T-90	VOC	1.73	0.15
		IA	<0.01	<0.01
T-91	Storage Tank T-91	VOC	1.73	0.15
		IA	<0.01	<0.01
T-92	Storage Tank T-92	VOC	1.73	0.15
		IA	<0.01	<0.01
T-93	Storage Tank T-93	VOC	1.73	0.15
		IA	<0.01	<0.01
T-94	Storage Tank T-94	VOC	1.74	0.15
		IA	<0.01	<0.01
T-95	Storage Tank T-95	VOC	1.73	0.15
		IA	<0.01	<0.01
T-96	Storage Tank T-96	VOC	1.73	0.15
		IA	<0.01	<0.01
T-97	Storage Tank T-97	VOC	1.73	0.15
		IA	<0.01	<0.01
T-98	Storage Tank T-98	VOC	1.74	0.15
		IA	<0.01	<0.01
T-99	Storage Tank T-99	VOC	1.74	0.15
		IA	<0.01	<0.01
T-100	Storage Tank T-100	VOC	1.73	0.15
		IA	<0.01	<0.01
T-101	Storage Tank T-101	VOC	1.73	0.15
		IA	<0.01	<0.01
T-102	Storage Tank T-102	VOC	1.73	0.15
		IA	<0.01	<0.01
T-103	Storage Tank T-103	VOC	1.73	0.15

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		IA	<0.01	<0.01
T-104	Storage Tank T-104	VOC	1.73	0.15
		IA	<0.01	<0.01
BL-1	Bulk Loading Station BL-1	VOC	2.25	-
		IA	<0.01	-
		HCl	<0.01	-
BL-2	Bulk Loading Station BL-2	VOC	2.25	-
		IA	<0.01	-
		HCl	<0.01	-
BL-3	Bulk Loading Station BL-3	VOC	2.25	-
		IA	<0.01	-
		HCl	<0.01	-
BL-4	Bulk Loading Station BL-4	VOC	2.25	-
		IA	<0.01	-
		HCl	<0.01	-
BL-5	Bulk Loading Station BL-5	VOC	2.25	-
		IA	<0.01	-
		HCl	<0.01	-
BL-1 through BL-5	Bulk Loading Station BL-1 through BL-5	VOC	-	2.85
		IA	-	1.32
		HCl	-	1.32
DR-1	Bulk Loading Station DR-1	VOC	0.58	-
		IA	<0.01	-
		HCl	<0.01	-
DR-2	Bulk Loading Station DR-2	VOC	0.58	-
		IA	<0.01	-
		HCl	<0.01	-
DR-3	Bulk Loading Station DR-3	VOC	0.58	-
		IA	<0.01	-

Emission Sources - Maximum Allowable Emission Rates

		HCl	<0.01	-
DR-4	Bulk Loading Station DR-4	VOC	0.58	-
		IA	<0.01	-
		HCl	<0.01	-
DR-1 through DR-4	DR-1 through DR-4	VOC	-	3.94
		IA	-	1.82
		HCl	-	1.82
FUG-1	Northern Tank Farm (5)	VOC	0.14	0.63
		IA	0.14	0.63
		NH_3	<0.01	0.04
FUG-2	New Tank Farm (5)	VOC	0.38	1.66
		IA	0.38	1.66
		CH_2O (7)	<0.01	0.04
FUG-3	Reactor and Loading Area (5)	VOC	0.36	1.56
		IA	0.36	1.56
		HCl	0.04	0.16
		CH_2O	<0.01	0.03
		NH_3	0.06	0.27
FUG-4	Southern Tank Farm (5)	VOC	0.89	3.91
		IA	0.89	3.91
		HCl	0.03	0.12
PWDRL-56	Powder Loading Unit 56	PM	0.07	<0.01
		PM_{10}	0.03	<0.01
		$PM_{2.5}$	0.01	<0.01
HS-1	HCl Water Scrubber HS-1	HCl	<0.01	<0.01
FS-1	Formaldehyde Water Scrubber FS-1	VOC	20.54	0.47
		CH_2O	<0.01	<0.01
CAS-1	Benzyl Chloride storage tank T-42	VOC	0.8	3.49
RTO-1	Process Emissions (Includes emissions from bulk loading station	VOC	1.19	5.22

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		IA	0.37	1.62
		HCl	0.16	0.72
		NH_3	0.08	0.34
	RTO Combustion Emissions	NOx	0.15	0.67
		PM	0.02	0.08
		CO	0.21	0.92
		VOC	0.01	0.06
		SO_2	<0.01	<0.01
MSS-LP	MSS Line Purge	VOC	<0.01	<0.01
		IA	<0.01	<0.01
		HCl	<0.01	<0.01
		CH_2O	<0.01	<0.01
HAP	Hazardous Air Pollutants (Individual) Site-wide	HAP	-	<10
HAP	Hazardous Air Pollutants (Total) Site-wide	HAP	-	<25

(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
IA - inorganic acids including phosphonic acid and phosphorous acid (excludes HCl)
HCl - hydrochloric acid
NH_3 - ammonia
CH_2O - formaldehyde
CO - carbon monoxide
NOx. - total oxides of nitrogen
SO2 - 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
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
(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) Attachment C of the Special Conditions lists the approved chemicals.
(7) Formaldehyde emissions are included in the VOC emission rates.

Date: TBD