Emission Sources - Maximum Allowable Emission Rates

Permit Number 18161

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)
X-A-0	Loading	VOC	4.79	1.29
X-A-1	Loading	VOC	4.79	1.42
X-A-2	Loading	VOC	4.79	0.12
X-A-4	Loading	VOC	1.89	0.13
X-A-5	Loading	VOC	3.64	0.16
X-A-6	Loading	VOC	4.79	0.12
X-A-7	Loading	VOC	4.79	0.12
X-A-8	Loading	VOC	19.76	2.19
X-A-9	Loading	VOC	4.79	0.25
X-A-10	Loading	VOC	4.79	0.25
X-A-11	Loading	VOC	0.75	0.07
X-A-12	Loading	VOC	4.79	1.19
X-A-13	Loading	VOC	4.79	0.13
X-A-14	Loading	VOC	4.79	0.26
X-A-15	Loading	VOC	0.75	0.06
X-A-16	Loading	VOC	4.79	0.19
X-A-17	Loading	VOC	4.79	0.13
X-A-18	Loading	VOC	4.79	0.12
X-A-19	Byproduct Oil	VOC	2.98	0.01
X-A-20	Loading	VOC	4.79	0.63
X-A-25	Loading	VOC	4.79	1.19

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X-A-27	Loading	VOC	4.79	1.19
X-A-28	Loading	VOC	0.01	<0.01
X-A-29	Loading	VOC	0.01	<0.01
X-B-1	Cooling Tower	VOC	0.14	0.63
		PM	0.09	0.37
		PM_{10}	0.09	0.37
		$PM_{2.5}$	0.09	0.37
X-C-1	Hot Oil Heater (20 MMBtu/hr)	VOC	0.11	0.48
		NOx	1.20	5.26
		CO	1.65	7.21
		PM	0.15	0.66
		PM_{10}	0.15	0.66
		$PM_{2.5}$	0.15	0.66
		SO_2	0.01	0.05
X-D-1	Flare	VOC	8.38	4.82
		NOx	2.16	2.67
		CO	11.15	13.77
		SO_2	0.01	0.02
X-E-1	HCl Scrubber	Cl_2	<0.01	<0.01
X-E-2	Scrubber	VOC	1.72	0.12
		MA	0.01	<0.01
X-E-3	Scrubber	VOC	0.21	0.92
		HF	0.01	0.05
		BF_3	0.04	0.16
X-G-0	Tank T-1103	VOC	1.75	0.25
X-G-1	Tank T-1105	VOC	<0.01	<0.01

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X-G-8	Tank T-1313	VOC	7.56	0.87
X-G-9	Tank T-1380	VOC	7.56	0.87
X-G-11	Tank T-1102	VOC	0.03	<0.01
X-G-12	Tank T-1301	VOC	1.89	0.80
X-G-13	Tank T-1311A	VOC	15.62	0.20
X-G-14	Tank T-1311B	VOC	19.97	0.34
X-G-15	Tank T-1311C	VOC	12.73	0.18
X-G-16	Tank T-1305	VOC	16.13	0.98
X-G-17	Tank T-1311D	VOC	12.73	0.18
X-G-18	Tank T-1314	VOC	0.12	<0.01
X-G-19	Tank T-1317	VOC	12.55	0.65
X-G-20	Tank T-1309	VOC	8.18	0.66
X-G-21	Tank T-1310	VOC	13.32	1.41
X-G-22	Tank T-1334	VOC	1.89	0.80
X-G-23	Tank T-1335	VOC	28.74	1.68
X-G-24	Tank-T-1315	VOC	12.73	1.08
X-G-25	Tank T-1316	VOC	12.73	1.62
X-G-26	Tank T-1336	VOC	1.48	0.45
X-G-29	Tank T-1171	VOC	6.21	0.07
X-G-31	Tank T-1354	VOC	0.79	0.06
X-G-32	Tank T-1390	VOC	1.18	0.42

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X-GZ-0	Fugitives (5)	VOC	2.89	12.64
		MA	<0.01	<0.01
		Cl_2	0.06	0.24
		BF_3	0.12	0.53
		HF	0.04	0.19
		HCl	0.02	0.10
X-H-0	Tank T-1341	VOC	10.96	1.45
X-H-1	Tank T-1343	VOC	1.72	0.07
X-H-2	Tank T-1345	VOC	3.36	0.14
X-H-3	Tank T-1346 (6)	VOC	6.90	0.10
X-H-5	Tank T-1330B	VOC	3.51	0.27
X-H-6	Tank T-1321	VOC	10.77	0.15
X-H-7	Tank T-1349 (6)	VOC	3.36	0.08
X-H-8	Tank T-1347	VOC	0.17	<0.01
X-H-11	Tank T-1325	VOC	1.57	0.80
X-H-12	Tank T-1326	VOC	4.30	0.70
X-H-13	Tank T-1358	VOC	26.29	0.68
X-H-14	Tank T-1359	VOC	19.90	0.39
X-H-16	Tank T-1355	VOC	0.79	0.06
X-H-17	Tank T-1356	VOC	0.79	0.06
X-H-18	Tank T-1357	VOC	13.75	1.64
X-I-0	Tank T-1360A	VOC	35.04	0.91
X-I-1	Tank T-1360B	VOC	27.58	0.54
X-I-2	Tank T-1360C	VOC	20.68	0.54
X-I-5	Tank T-1140	VOC	<0.01	<0.01
X-I-7	Tank T-1603	VOC	<0.01	<0.01

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X-I-8	Tank T-1340	VOC	8.65	0.52
X-I-14	Tank T-1606	VOC	<0.01	<0.01
X-I-15	Tank T-1612	VOC	<0.01	0.01
X-I-16	Tank T-1628	VOC	2.59	0.08
X-J-1	Tank T-1401	VOC	4.23	1.08
X-J-2	Tank T-1402	VOC	1.49	0.49
X-J-3	Tank T-1415	VOC	0.54	0.04
X-J-4	Tank T-1404	VOC	1.32	0.62
X-J-5	Tank T-1405	VOC	0.19	0.01
X-J-6	Tank T-1445	VOC	0.19	0.01
X-J-8	Tank T-1409	VOC	0.07	0.05
X-J-9	Tank T-1411	VOC	0.07	0.03
X-J-10	Tank T-1412	VOC	0.22	<0.01
X-J-11	Tank T-1413	VOC	28.87	0.06
X-J-12	Tank T-1414	VOC	5.46	1.04
X-J-13	Tank T-1416	VOC	1.53	0.08
X-J-14	Tank T-1417	VOC	0.19	0.01
X-J-22	Tank D-1242	VOC	1.78	<0.01
X-WT-4	Tank T-1604	VOC	<0.01	<0.01
X-WT-5	Tank T-1605	VOC	<0.01	<0.01
X-WT-7	Tank T-1607	VOC	<0.01	<0.01
X-G-37	Tank T-1174	VOC	4.65	0.31
X-G-39	Tank T-1176	VOC	11.12	0.21
X-G-7	Tank T-1322	VOC	8.40	--
X-H-4	Tank T-1330A	VOC	10.96	--
X-H-9	Tank T-1312	VOC	7.56	--

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TANK CAP	Annual Cap for Tanks T-1312, T-1322, and T-1330A (EPNs X-H-9, X-G-7, and X-H-4)	VOC	--	2.10

(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_{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
BF_3 - boron trifluoride
Cl_2 - chlorine
CO - carbon monoxide
HF - hydrogen fluoride
MA - maleic anhydride
NAH - naphthalic anhydride
SiF_4 - silicon tetrafluoride
(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) EPNs X-H-3 and X-H-7 are connected such that the combined maximum hourly emissions are 0.68 lb/hr.

Date: March 12, 2021