Emission Sources - Maximum Allowable Emission Rates

Permit Number 52107

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)
81	Disinfection Tank	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
		POM	0.01	0.01
		HCN	0.01	0.01
		NH_3	0.01	0.01
		H_2S	0.01	0.01
		VOC	0.01	0.01
201	Headworks	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
		POM	0.01	0.01
		HCN	0.01	0.01
		NH_3	0.11	0.34
		H_2S	0.29	0.78
		VOC	1.19	1.43
110	First Step Aeration Tank	PM	0.02	0.03
		PM_{10}	0.02	0.03
		$PM_{2.5}$	0.02	0.03
		POM	0.04	0.06
		HCN	0.41	0.52
		NH_3	1.16	5.64
		H_2S	0.31	1.10

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		VOC	95.68	116.92
111	Primary Clarifier	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
		POM	0.01	0.01
		HCN	0.01	0.01
		NH_3	1.65	7.36
		H_2S	0.23	0.96
		VOC	4.46	7.26
319	Aeration Tank	PM	0.02	0.03
		PM_{10}	0.02	0.03
		$PM_{2.5}$	0.02	0.03
		POM	0.02	0.02
		HCN	1.19	1.49
		NH_3	2.75	11.27
		H_2S	0.01	0.03
		VOC	17.74	24.20
	Maintenance Scenario 6 (5)	PM	0.03	0.01
		PM_{10}	0.03	0.01
		$PM_{2.5}$	0.03	0.01
		POM	0.20	0.04
		HCN	1.19	0.20
		NH_3	2.75	0.47
		H_2S	0.07	0.02
		VOC	112.49	18.90
320	Aeration Tank	PM	0.02	0.03
		PM_{10}	0.02	0.03
		$PM_{2.5}$	0.02	0.03
		POM	0.02	0.02

Emission Sources - Maximum Allowable Emission Rates

		HCN	1.18	1.49
		NH_3	2.75	11.27
		H_2S	0.01	0.03
		VOC	17.68	24.13
	Maintenance Scenario 6 (5)	PM	0.03	0.01
		PM_{10}	0.03	0.01
		$PM_{2.5}$	0.03	0.01
		POM	0.20	0.04
		HCN	1.18	0.20
		NH_3	2.75	0.47
		H_2S	0.07	0.02
		VOC	112.32	18.87
421	Aeration Tank	PM	0.02	0.03
		PM_{10}	0.02	0.03
		$PM_{2.5}$	0.02	0.03
		POM	0.02	0.02
		HCN	0.56	1.49
		NH_3	2.76	11.28
		H_2S	0.01	0.03
		VOC	17.78	24.26
	Maintenance Scenario 6 (5)	PM	0.03	0.01
		PM_{10}	0.03	0.01
		$PM_{2.5}$	0.03	0.01
		POM	0.20	0.04
		HCN	1.19	0.20
		NH_3	2.76	0.47
		H_2S	0.07	0.02
		VOC	112.60	18.92
316	Secondary Clarifier	PM	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
		POM	0.01	0.01
		HCN	0.10	0.13
		NH_3	0.76	2.02
		H_2S	0.01	0.01
		VOC	0.89	1.39
	Maintenance Scenario 6 (5)	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
		POM	0.01	0.01
		HCN	0.10	0.02
		NH_3	0.76	0.13
		H_2S	0.01	0.01
		VOC	2.62	0.45
317	Secondary Clarifier	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
		POM	0.01	0.01
		HCN	0.10	0.17
		NH_3	0.76	2.02
		H_2S	0.01	0.01
		VOC	1.19	1.85
	Maintenance Scenario 6 (5)	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
		POM	0.01	0.01
		HCN	0.10	0.02
		NH_3	0.76	0.13

Emission Sources - Maximum Allowable Emission Rates

		H_2S	0.01	0.01
		VOC	2.62	0.45
430	Secondary Clarifier	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
		POM	0.01	0.01
		HCN	0.02	0.05
		NH_3	0.31	0.83
		H_2S	0.01	0.01
		VOC	0.30	0.49
	Maintenance Scenario 6 (5)	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
		POM	0.01	0.01
		HCN	0.04	0.01
		NH_3	0.31	0.06
		H_2S	0.01	0.01
		VOC	0.79	0.14
440	Secondary Clarifier	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
		POM	0.01	0.01
		HCN	0.02	0.05
		NH_3	0.31	0.83
		H_2S	0.01	0.01
		VOC	0.30	0.49
	Maintenance Scenario 6 (5)	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

		POM	0.01	0.01
		HCN	0.04	0.01
		NH_3	0.31	0.06
		H_2S	0.01	0.01
		VOC	0.79	0.14
450	Secondary Clarifier	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
		POM	0.01	0.01
		HCN	0.02	0.05
		NH_3	0.31	0.83
		H_2S	0.01	0.01
		VOC	0.30	0.49
	Maintenance Scenario 6 (5)	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
		POM	0.01	0.01
		HCN	0.04	0.01
		NH_3	0.31	0.06
		H_2S	0.01	0.01
		VOC	0.79	0.14
460	Secondary Clarifier	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
		POM	0.01	0.01
		HCN	0.02	0.04
		NH_3	0.31	0.83
		H_2S	0.01	0.01
		VOC	0.30	0.49

Emission Sources - Maximum Allowable Emission Rates

	Maintenance Scenario 6 (5)	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
		POM	0.01	0.01
		HCN	0.04	0.01
		NH_3	0.31	0.06
		H_2S	0.01	0.01
		VOC	0.79	0.14
326	Stilling Well	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
		POM	0.01	0.01
		HCN	0.01	0.01
		NH_3	0.01	0.02
		H_2S	0.01	0.01
		VOC	0.01	0.01
	Maintenance Scenario 6 (5)	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
		POM	0.01	0.01
		HCN	0.01	0.01
		NH_3	0.01	0.01
		H_2S	0.01	0.01
		VOC	0.02	0.01
MH7	Effluent Wet Well	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
		POM	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

		HCN	0.01	0.01
		NH_3	0.01	0.01
		H_2S	0.01	0.01
		VOC	0.01	0.01
MH7A	Effluent Wet Well	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
		POM	0.02	0.02
		HCN	0.01	0.01
		NH_3	0.01	0.01
		H_2S	0.01	0.01
		VOC	0.01	0.01
MH7B	Effluent Wet Well	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
		POM	0.01	0.01
		HCN	0.01	0.01
		NH_3	0.01	0.02
		H_2S	0.01	0.01
		VOC	0.01	0.01
700	Sludge Blend Tank	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
		POM	0.02	0.02
		HCN	0.01	0.01
		NH_3	0.01	0.04
		H_2S	0.03	0.04
		VOC	0.24	0.31
BPB	Belt Press Building	PM	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
		POM	0.01	0.01
		HCN	0.01	0.01
		NH_3	0.09	0.29
		H_2S	0.03	0.01
		VOC	0.62	1.13
	Maintenance Scenario 6 (5)	PM	0.31	0.06
		PM_{10}	0.31	0.06
		$PM_{2.5}$	0.31	0.06
		POM	0.01	0.01
		HCN	0.01	0.01
		NH_3	0.09	0.02
		H_2S	0.01	0.01
		VOC	0.67	0.12
518	Sludge Thickener	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
		POM	0.01	0.01
		HCN	0.01	0.01
		NH_3	0.01	0.01
		H_2S	0.01	0.01
		VOC	0.01	0.01
	Maintenance Scenario 6 (5)	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
		POM	0.01	0.01
		HCN	0.01	0.01
		NH_3	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

		H_2S	0.01	0.01
		VOC	0.01	0.01
MH1, MH2, MH4, MH5, MH6, MH8, MH11, MH11A, MH16, MH17, MH19, MH21, MH2LOAD	Manhole Emissions	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
		POM	0.01	0.01
		HCN	0.01	0.01
		NH_3	0.01	0.01
		H_2S	0.01	0.01
		VOC	0.01	0.01
MH28	Manhole MH28	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
		POM	0.01	0.01
		HCN	0.01	0.01
		NH_3	0.01	0.01
		H_2S	0.01	0.01
		VOC	0.01	0.01
GT	Gasoline Tank	VOC	0.40	0.50
DT	Diesel Tank	VOC	0.01	0.01
761	Polymer Mix Tank	VOC	0.01	0.01
762	Polymer Feed Tank	VOC	0.01	0.01
760	Ferric Sulfate Tank	VOC	0.01	0.01
91	Ferric Sulfate Tank	VOC	0.01	0.01
80	Caustic Tank	VOC	0.01	0.01
88	Spent Caustic Tank	VOC	0.01	0.01
82	Sulfuric Acid Tank	VOC	0.01	0.01
84	Sulfuric Acid Tank	VOC	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

85	Sulfuric Acid Tank	VOC	0.01	0.01
89	Sulfuric Acid Tank	VOC	0.01	0.01
220	Aqueous Ammonia Salt Tank	NH_3	0.01	0.01
270	Phosphoric Acid Tank	VOC	0.01	0.01
260	Phosphoric Acid Tank (spare)	VOC	0.01	0.01
841	Non-Potable Water Tank	VOC	0.01	0.01
UOT	Used Oil Tank	VOC	0.01	0.01
UOS	Used Oil Sink	VOC	0.01	0.01
GBOD	Gear Box Oil Dispensing	VOC	0.01	0.01
UGBO	Used Gear Box Oil	VOC	0.01	0.01
DEG	Degreaser	VOC	0.12	0.15
CAB-BLAST	Blast Cabinet	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
GRIT-1	Grit Dewatering	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
		VOC	0.01	0.01
GRIT-2	Grit Pad	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
		VOC	0.01	0.01
112	Primary Clarifier Scum Tank 112	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
		POM	0.01	0.01
		HCN	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

		NH_3	0.01	0.01
		H_2S	0.01	0.01
		VOC	0.06	0.07
113	Primary Clarifier Scum Tank 113	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
		POM	0.01	0.01
		HCN	0.01	0.01
		NH_3	0.01	0.01
		H_2S	0.01	0.01
		VOC	0.01	0.01
DPMP	Diesel Powered Pump	VOC	0.10	0.01
		NO_x	6.20	0.13
		CO	1.34	0.03
		SO_2	0.41	0.01
		PM	0.44	0.01
		PM_{10}	0.44	0.01
		$PM_{2.5}$	0.44	0.01
DIS	Disinfection Tank	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01
		POM	0.01	0.01
		HCN	0.01	0.01
		NH_3	0.01	0.02
		H_2S	0.01	0.01
		VOC	0.02	0.10
MH7C	Effluent Wet Well	PM	0.01	0.01
		PM_{10}	0.01	0.01
		$PM_{2.5}$	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

		POM	0.01	0.01
		HCN	0.01	0.01
		NH_3	0.01	0.01
		H_2S	0.01	0.01
		VOC	0.01	0.01
T1010	Peracetic Acid Tank Scrubber	VOC	0.01	0.01
T1011	Peracetic Acid Tank Scrubber	VOC	0.01	0.01
TBT1	Bleach Tank	Sodium Hypochlorite	2.56	0.28
TBT2	Bleach Tank	Sodium Hypochlorite	2.56	0.28
TBT3	Bleach Tank	Sodium Hypochlorite	2.49	0.27
TBT4	Bleach Tank	Sodium Hypochlorite	2.49	0.27
TSB2	Bisulfite Tank	Sodium Bisulfite	2.60	0.27

(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
CO - carbon monoxide
SO_2 - sulfur dioxide
H_2S - hydrogen sulfide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$
PM_{10} - particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
POM - particulate organic matter
NH_3 - ammonia
HCN - hydrogen cyanide
(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
(5) Maintenance Scenario 6 occurs when the first step aeration tank (EPN 110) is under maintenance and wastewater flow is diverted to MH4 to bypass EPN 110 as represented in permit supporting documents dated January 19, 2005.

Date: August 28, 2015