Emission Sources - Maximum Allowable Emission Rates

Permit Number 40782

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 (5)
WTP	Wastewater Treatment Plant (8)	VOC	606.84	51.14
		Non-VOC	69.95	1.99
		CO	0.33	1.44
		NO_x	1.27	5.57
		SO_2	<0.01	0.01
		PM	0.03	0.13
		PM_{10}	0.03	0.13
		$PM_{2.5}$	0.03	0.13
		Ammonia	0.43	1.89
TK4101	2nd Step Aeration Tank 1	VOC	51.82	
		Non-VOC	4.29	
		Ammonia	0.04	
TK4102	2nd Step Aeration Tank 2	VOC	51.82	
		Non-VOC	4.29	
		Ammonia	0.04	
TK4103	2nd Step Aeration Tank 3	VOC	51.82	
		Non-VOC	4.29	
		Ammonia	0.04	
TK4104	2nd Step Aeration Tank 4	VOC	51.82	
		Non-VOC	4.29	
		Ammonia	0.04	
TK4105	2nd Step Aeration Tank 5	VOC	51.82	
		Non-VOC	4.29	
		Ammonia	0.04	
CLRIFIER1	Clarifier 1	VOC	0.09	
		Non-VOC	<0.01	

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		Ammonia	<0.01	
CLRIFIER2	Clarifier 2	VOC	0.09	
		Non-VOC	0.01	
		Ammonia	<0.01	
CLRIFIER3	Clarifier 3	VOC	0.09	
		Non-VOC	0.01	
		Ammonia	<0.01	
CLRIFIER4	Clarifier 4	VOC	7.35	
		Non-VOC	2.55	
		Ammonia	0.01	
CLRIFIER5	Clarifier 5	VOC	7.35	
		Non-VOC	2.55	
		Ammonia	0.01	
CLRIFIER6	Clarifier 6	VOC	7.35	
		Non-VOC	2.55	
		Ammonia	0.01	
CLRIFIER7	Clarifier 7 (10)	VOC	15.51	0.80
		Non-VOC	2.61	0.12
		Ammonia	0.02	
CHLORINESP	Chlorine Sump	VOC	0.17	
		Non-VOC	0.03	
		Ammonia	<0.01	
CHLORINETK	Pond 9 Chlorine Contact Basin (formerly Chlorine Contact Tank)	VOC	2.24	(9)
		Non-VOC	0.40	(9)
		Ammonia	<0.01	(9)
		Chlorine	<0.01	<0.01
		Hypochlorite	0.04	0.18
SPLITRBX	Splitter Box	VOC	2.65	
		Non-VOC	0.29	
		Ammonia	<0.01	
CHANNEL	Clean Stream	VOC	<0.01	
		Non-VOC	<0.01	
		Ammonia	<0.01	
POND2	Pond No. 2	VOC	0.34	

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		Non-VOC	<0.01	
		Ammonia	<0.01	
POND3	Pond No. 3	VOC	<0.01	
		Non-VOC	<0.01	
		Ammonia	<0.01	
POND4	Pond No. 4	VOC	17.16	
		Non-VOC	0.85	
		Ammonia	<0.01	
POND5	Pond No. 5	VOC	36.81	
		Non-VOC	3.41	
		Ammonia	<0.01	
POND6	Pond No. 6	VOC	36.77	
		Non-VOC	3.40	
		Ammonia	0.07	
POND7	Pond No. 7	VOC	73.53	
		Non-VOC	13.17	
		Ammonia	0.07	
POND8	Pond No. 8	VOC	46.30	
		Non-VOC	5.95	
		Ammonia	<0.01	
POND9	Pond No. 9	VOC	49.10	
		Non-VOC	8.51	
		Ammonia	0.05	
BPBASN601	B-Plant Basin No. 601	VOC	0.60	
		Non-VOC	0.05	
		Ammonia	<0.01	
BPBASN602	B-Plant Basin No. 602	VOC	0.60	
		Non-VOC	0.05	
		Ammonia	<0.01	
BPBASN603	B-Plant Basin No. 603	VOC	0.60	
		Non-VOC	0.05	
		Ammonia	<0.01	
BPBASN604	B-Plant Basin No. 604	VOC	0.60	
		Non-VOC	0.05	

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		Ammonia	<0.01	
BPBASN605	B-Plant Basin No. 605	VOC	0.60	
		Non-VOC	0.05	
		Ammonia	<0.01	
BPBASN606	B-Plant Basin No. 606	VOC	0.60	
		Non-VOC	0.05	
		Ammonia	<0.01	
A-PLANT	A-Plant	VOC	<0.01	
BPRESS810	Belt Press No. 810 (7)	VOC	1.25	
		Non-VOC	<0.01	
		Ammonia	<0.01	
BPRESS820	Belt Press No. 820 (7)	VOC	1.25	
		Non-VOC	<0.01	
		Ammonia	<0.01	
BPRESS830	Belt Press No. 830 (7)	VOC	1.25	
		Non-VOC	<0.01	
		Ammonia	<0.01	
BPRESS840	Belt Press No. 840 (7)	VOC	1.25	
		Non-VOC	<0.01	
		Ammonia	<0.01	
SMCHNL	Small Channel	VOC	0.34	
		Non-VOC	<0.01	
		Ammonia	<0.01	
BLCLCONT	B-Plant Contact Sump	VOC	0.09	
		Non-VOC	0.01	
		Ammonia	<0.01	
TO2601	Thermal Oxidizer (RTO) (5)(6)	VOC	40.57	
		Non-VOC	1.27	
		CO	0.33	
		NOx	1.27	
		SO_2	<0.01	
		PM	0.03	
		PM_{10}	0.03	
		$PM_{2.5}$	0.03	

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		Ammonia	0.15	
TO2602	Thermal Oxidizer (RTO) (5)(6)	VOC	40.57	
		Non-VOC	1.27	
		CO	0.33	
		NO_x	1.27	
		SO_2	<0.01	
		PM	0.03	
		PM_{10}	0.03	
		$PM_{2.5}$	0.03	
		Ammonia	0.15	
NH4OHTK	Ammonium Hydroxide Tank	Ammonia	<0.01	
NH4OHTK2	Ammonium Hydroxide Tank	Ammonia	<0.01	
H2PO4TK	Phosphoric Acid Tank	Phosphoric Acid	<0.01	<0.01
BLCHTK1	Bleach Tank 1 (T-511)	Hypochlorite	0.03	0.11
		Chlorine	<0.01	<0.01
BLCHTK2	Bleach Tank 2 (T-512)	Hypochlorite	0.03	0.11
		Chlorine	<0.01	<0.01
BLCHTK3	Bleach Tank 3	Hypochlorite	0.03	0.11
		Chlorine	<0.01	<0.01
POLYMERR	Raw Polymer Tank	VOC	<0.01	<0.01
POLYMERD	Dilute Polymer Tank	VOC	<0.01	<0.01
COOLTWER	Cooling Tower	VOC	1.88	1.42
		Non-VOC	0.32	<0.01
		PM	1.09	4.79
		PM_{10}	0.31	1.36
		$PM_{2.5}$	0.31	1.36
FINALDCHNL	Final D Channel (10)	VOC	1.65	0.08
		Non-VOC	0.16	0.01
		Ammonia	<0.01	

(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.

Emission Sources - Maximum Allowable Emission Rates

(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
Non-VOC - Acetone, chlorodifluoromethane, hydrocyanic acid, methyl acetate, methylene chloride, tetrachloroethylene and 1,1,1-trichloroethane
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
(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
(5) Emissions from the 1st Aeration Basin (EPN's T2001, T02002, T-2003, and T-2004) are routed to the RTO.
(6) Only one RTO operates at a time. Emissions from both RTO's are not additive.
(7) Belt Press emissions include emissions from truck loading of sludge.
(8) Does not include EPN's POLYMERR, POLYMERD, and COOLTWER, NH4OHTK, NH4OHTK2, H2PO4TK, CHLORINETK (hypochlorite and chlorine), BLCHTK1, BLCHTK2, and BLCHTK3.
(9) Annual emissions for this compound for this tank are included in the WTP totals.
(10)Emissions from EPNs CLRIFIER7 and FINALDCHNL are include in totals for EPN WTP.

Date: June 4, 2015