

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 4351

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. 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 *	
			lb/hr	TPY**
ANI-ABS62	Ammonia Scrubber	Aniline	0.01	0.01
		Benzene	0.43	1.31
		Nitrobenzene	0.02	0.05
		Phenol	0.01	0.01
		NH ₃	3.33	10.54
ANI-AN262A	Aniline Reactor Off-Gas Analyzer Vent	Aniline	0.01	0.01
		Benzene	0.01	0.01
		Cyclohexanone	0.01	0.01
		Phenol	0.01	0.01
		NH ₃	0.01	0.01
ANI-CT208A	Aniline Cooling Tower South Stack	VOC	0.21	0.91
ANI-CT208B	Aniline Cooling Tower Center Stack	VOC	0.21	0.91
ANI-CT208C	Aniline Cooling Tower North Stack	VOC	0.21	0.91
ANI-CTF286	Centrifuge Vent	Benzene	0.01	0.01
		Nitrobenzene	0.04	0.18
ANI-DCN257	Aniline Product Decanter	Aniline	0.96	0.01
		Benzene	0.35	0.01
ANI-DCN258	Aniline Off-Spec Decanter Vent	Aniline	0.01	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY**
ANI-F1304	Aniline T/C Spot 1304 Fugitive (4)	Aniline	0.02	0.10
ANI-FANAL	Aniline Analysis Area Fugitive (4)	Aniline	0.13	0.57
ANI-FANBLK	Aniline Bulk Storage Area Fugitive (4)	Aniline	0.12	0.51
ANI-FANFLR	Aniline Flare Fugitives (4)	Aniline	0.01	0.02
		Cyclohexanone	0.01	0.01
ANI-FANMFG	Aniline Fugitives (4)	Aniline	1.26	5.54
		Benzene	0.19	0.85
		Nitrobenzene	0.55	2.42
		m-phenylenediamine	0.01	0.02
ANI-FBARGE	Aniline Barge Loading Fugitive (4)	Aniline	0.01	0.03
		Benzene	0.08	0.36
ANI-FBZBLK	Aniline Benzene Bulk Storage Tank Fugitive (4)	Benzene	0.04	0.18
ANI-FCOOLT	Aniline Cooling Tower Fugitive	VOC	0.04	0.20
ANI-FCRDTF	Aniline Crude Tank Farm Fugitive (4)	Aniline	0.19	0.84
		Benzene	0.01	0.06
		Nitrobenzene	0.35	1.53
ANI-FDHN	DHN Fugitives (4)	Benzene	1.06	4.63
		Nitrobenzene	0.44	1.92

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
ANI-FIL190	Filter and Thickener Vent	Aniline	0.50	2.19
ANI-FLR296	DHN Emergency Flare	VOC	0.04	0.16
		NO _x	0.04	0.15
		CO	0.07	0.31
		SO ₂	0.01	0.06
ANI-FLR373	NO _x Flare Discharge (5)	VOC	0.27	1.18
		Aniline	0.02	0.09
		Benzene	0.81	3.47
		Nitrobenzene	0.08	0.34
		Cyclohexanone	0.01	0.02
		NO _x	89.72	385.64
		CO	5.95	24.29
		SO ₂	0.60	2.63
		H ₂ S	0.01	0.01
		NH ₃	0.01	0.03
ANI-FLR374	Aniline Flare (5)	VOC	0.01	0.01
		Aniline	0.19	0.84
		Benzene	0.06	0.25
		Nitrobenzene	0.01	0.01
		Cyclohexanone	0.01	0.06
		NO _x	4.87	21.29
		CO	19.05	83.46
		SO ₂	0.01	0.02
		NH ₃	0.01	0.01
		Phenol	0.01	0.01
ANI-FNOXFL	Aniline NO _x Flare Fugitive (4)	Aniline	0.01	0.01
		Benzene	0.01	0.06
		Nitrobenzene	0.01	0.01
		NH ₃	0.01	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
ANI-FPRCBL	Aniline PRC Battery Limit Fugitive (4)	Aniline	0.01	0.02
		Benzene	0.01	0.02
		Nitrobenzene	0.01	0.04
ANI-FRRTUN	Aniline RR/Truck Unload Fugitive (4)	Aniline	0.06	0.26
		Benzene	0.01	0.01
		Nitrobenzene	0.01	0.05
ANI-FSITE	Aniline OSBL Fugitive (4)	Aniline	0.01	0.06
		Benzene	0.03	0.14
ANI-LBA96	Aniline Barge Loading	Aniline	1.75	0.38
ANI-LRC195	Rework Railcar Loading	Aniline	0.26	0.01
ANI-LRC97	Aniline Railcar Loading	Aniline	0.36	0.06
		Nitrobenzene	0.19	0.01
ANI-LTR95	Nitric Truck Loading	NO _x	0.25	0.01
ANI-LTR98	Aniline Product Truck Loading	Aniline	0.28	0.01
		Benzene	0.01	0.01
		Nitrobenzene	0.01	0.01
ANI-LTR99	Tar Tank Truck Loading	Aniline	1.29	0.04
		m-phenylenediamine	0.01	0.01
		diphenylamine	0.03	0.01
		n-phenylbenzenediamine	0.01	0.01
		cyclohexanone	3.85	0.11
		p-aminophenol	0.01	0.01
		biphenyl	0.01	0.01
		nitrobenzene	0.01	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
ANI-ORGTRK	Decant Organic Liquid Truck Loading	Aniline	0.01	0.01
		Benzene	0.37	0.01
		Nitrobenzene	0.02	0.01
ANI-STK169	Ammonia Blowdown Pot Vent	NH ₃	4.79	0.06
ANI-STK83	AOP Abater Discharge	VOC	1.84	8.05
		NO _x	44.28	126.47
		SO ₂	1.63	7.15
ANI-STR69A	Wastewater Column Vent No. 1	Aniline	0.01	0.01
		Benzene	0.01	0.01
		Nitrobenzene	0.01	0.01
ANI-STR69B	Wastewater Column Vent No. 2	Aniline	0.01	0.01
		Benzene	0.01	0.01
		Nitrobenzene	0.01	0.01
ANI-TF189E	East Wastewater Tank Vent	Aniline	0.01	0.01
		Benzene	0.04	0.01
		Nitrobenzene	0.01	0.01
ANI-TF2561	Aniline Crude Analysis Tank Vent No. 1	Aniline	2.37	0.98
		Benzene	0.85	0.38
		Nitrobenzene	0.01	0.01
ANI-TF2562	Aniline Crude Analysis Tank Vent No. 2	Aniline	2.37	0.98
		Benzene	0.85	0.38
		Nitrobenzene	0.01	0.01
ANI-TFL75	Benzene Bulk Storage Tank Vent	Benzene	0.59	1.73
ANI-TFX59	Deepwell Injection Tank Vent	Ammonia	3.45	0.21
		Aniline	0.01	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
	Benzene	0.01	0.01	
		Nitrobenzene	0.01	0.01
ANI-TFX61	Deepwell Surge Tank Vent	Ammonia	3.45	0.85
		Aniline	0.01	0.01
	Benzene	0.01	0.01	
		Nitrobenzene	0.01	0.01
ANI-TFX70	Catalyst Mix Tank Vent	Aniline	0.04	0.01
ANI-TFX72	Water Draw-Off Tank Vent	Aniline	0.01	0.01
ANI-TFX73	East Aniline Extractor Hold Tank Vent	Aniline	0.01	0.01
ANI-TFX74	Wastewater Column OVHD Separator	Aniline	0.01	0.01
		Benzene	0.01	0.01
		Nitrobenzene	0.01	0.01
ANI-TFX84	Reactor Catalyst Feed Tank	Aniline	0.15	0.01
ANI-TFX85	Thickener Feed Storage Tank	Aniline	0.19	0.02
ANI-TFX90	Alternate Wastewater Diversion Tank	Aniline	0.01	0.01
		Benzene	0.03	0.01
		Nitrobenzene	0.01	0.01
ANI-TFX91A	Aniline Bulk Storage Tank - North	Aniline	3.88	0.30
ANI-TFX91B	Aniline Bulk Storage Tank - South	Aniline	3.88	0.30
ANI-TFX92A	Aniline No. 1 Analysis Storage Tank	Aniline	0.86	0.14
ANI-TFX92B	Aniline No. 2 Analysis	Aniline	0.86	0.14

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
	Storage Tank			
ANI-TFX92C	Aniline No. 3 Analysis Storage Tank	Aniline	0.86	0.14
ANI-TFX192	Tar Tank Vent	Aniline	0.08	0.02
		m-phenylenediamine	0.01	0.01
		diphenylamine	0.01	0.01
		n-phenylbenzenediamine	0.01	0.01
		cyclohexanone	0.23	0.05
		p-aminophenol	0.01	0.01
		biphenyl	0.01	0.01
		nitrobenzene	0.01	0.01
ANI-TFX193	West Aniline Extractor Hold Tank Vent	Aniline	0.01	0.01
ANI-TFX194	Aniline Extractor Feed Tank Vent	Aniline	0.01	0.01
ANI-TFX205	Acid Recovery Tank Vent	Benzene	0.01	0.01
		Nitrobenzene	0.01	0.01
		H ₂ SO ₄	0.01	0.01
ANI-TFX255	Aniline Rework Storage Tank Vent	Aniline	0.14	0.11
ANI-TFX259	Aniline Safety Tank Vent	Aniline	0.08	0.01
ANI-TFX260	Crude Aniline Storage Tank Vent	Aniline	2.11	0.10
		Benzene	0.76	0.04
		Nitrobenzene	0.07	0.01
ANI-TFX261	Nitrobenzene Storage	Benzene	0.37	0.01
		Nitrobenzene	1.08	0.03
ANI-TFX282	Purge Column Feed Tank Vent	Aniline	0.07	0.05

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ANI-TFX283	Coarse Water Feed Tank Vent	Aniline	0.01	0.01
ANI-TFX290	Reactor Nitrobenzene Feed Tank	Aniline	0.01	0.01
		Benzene	0.03	0.01
		Nitrobenzene	0.04	0.01
ANI-TFX301	Consolidated Effluent Tank Vent	Aniline	0.01	0.01
		Benzene	0.01	0.01
		Nitrobenzene	0.01	0.01
ANI-VNT196	Aniline Building Process Water Sump Vent	Aniline	0.07	0.30
		Benzene	0.01	0.01
		Nitrobenzene	0.01	0.01
		Phenol	0.01	0.01
ANI-VNT264	AOP NO _x Analyzer Vent	NO	0.01	0.01
ANI-VNT297	DHN Sump	Benzene	0.01	0.01
		Nitrobenzene	0.01	0.01
ANI-VT263A	AOP Oxygen Analyzer Vent	NO	0.01	0.01
		N ₂ O	0.01	0.01
		NO _x	0.01	0.01
ANI-VT263B	AOP Methane Analyzer Vent	NO _x	0.01	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.

(3) NH₃ - ammonia

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

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NO_x - total oxides of nitrogen

CO - carbon monoxide

SO₂ - sulfur dioxide

H₂S - hydrogen sulfide

H₂SO₄ - hydrogen sulfate

NO - nitrogen oxide

N₂O - nitrous oxide

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) The VOC emission estimates do not include emissions of VOC which are specifically identified by chemical name.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

_____Hrs/day ____Days/week ____Weeks/year or 8,760 Hrs/year

** Compliance with annual emission limits is based on a rolling 12-month period.

Dated August 30, 2005