

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 9347 and PSDTX285M5

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)
Plant 1				
DR401D	PVC Dryer	PM	1.80	
		PM <sub>10</sub>	1.80	
		PM <sub>2.5</sub>	1.80	
		NVVOC	8.50	
		VCM	5.10	
DR401E	PVC Dryer	PM	1.80	
		PM <sub>10</sub>	1.80	
		PM <sub>2.5</sub>	1.80	
		NVVOC	8.50	
		VCM	5.10	
DR401F	PVC Dryer	PM	1.80	
		PM <sub>10</sub>	1.80	
		PM <sub>2.5</sub>	1.80	
		NVVOC	8.50	
		VCM	5.10	
DR401G	PVC Dryer	PM	1.80	
		PM <sub>10</sub>	1.80	
		PM <sub>2.5</sub>	1.80	
		NVVOC	8.50	
		VCM	5.10	
LV-5	VCM Incinerator	CO	0.10	
		HCl	0.20	
		Cl <sub>2</sub>	0.02	
		NO <sub>x</sub>	2.10	
		VCM	0.10	
		PM	0.20	
		PM <sub>10</sub>	0.20	
		PM <sub>2.5</sub>	0.20	

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		SO <sub>2</sub>	0.01	
		VOC	0.03	
TK116	VOC Tank	VOC	0.34	
TK117	VOC Tank	VOC	0.34	
TK124	VOC Tank	VOC	1.84	
TK115	VOC Tank	VOC	0.24	
TK123	VOC Tank	VOC	0.85	
TK502A, TK502B, TK502C, TK502D, TK503A, TK503C, TK503D, TK503E, TK551A, TK551E	Plant 1 Silos	PM	3.58	
		PM <sub>10</sub>	3.58	
		PM <sub>2.5</sub>	3.58	
		VCM	2.80	
TK503B	PVC Loading Silo	PM	0.35	
		PM <sub>10</sub>	0.35	
		PM <sub>2.5</sub>	0.35	
		VCM	0.30	
TK510	PVC Storage Silo	PM	0.18	
		PM <sub>10</sub>	0.18	
		PM <sub>2.5</sub>	0.18	
		VCM	0.01	
TK561A	PVC Storage Silo	PM	0.19	
		PM <sub>10</sub>	0.19	
		PM <sub>2.5</sub>	0.19	
		VCM	0.60	
TK561B	PVC Storage Silo	PM	0.19	
		PM <sub>10</sub>	0.19	
		PM <sub>2.5</sub>	0.19	
		VCM	0.60	
TK561C	PVC Storage Silo	PM	0.25	
		PM <sub>10</sub>	0.25	
		PM <sub>2.5</sub>	0.25	
		VCM	0.60	
UN752A	Boiler	CO	13.14	
		NO <sub>x</sub>	4.38	
		PM	0.61	
		PM <sub>10</sub>	0.61	
		PM <sub>2.5</sub>	0.61	

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		SO <sub>2</sub>	1.04	
		VOC	0.39	
UN752B	Boiler	CO	13.14	
		NO <sub>x</sub>	4.38	
		PM	0.61	
		PM <sub>10</sub>	0.61	
		PM <sub>2.5</sub>	0.61	
		SO <sub>2</sub>	1.04	
		VOC	0.39	
UN752D	Boiler	CO	1.08	
		NO <sub>x</sub>	0.90	
		PM	0.50	
		PM <sub>10</sub>	0.50	
		PM <sub>2.5</sub>	0.50	
		SO <sub>2</sub>	0.85	
		VOC	0.32	
P1FUG	Plant 1 Fugitives (5)	VCM	1.11	
		NVVO	0.58	
		Exempt Solvent	0.01	
		IOC-U	0.15	
PL1WWSTRIP	Wastewater Stripper	VCM	0.14	
PL1BIO	Biological Treatment	VCM	0.15	
<b>Plant 2</b>				
DR-2401A	PVC Dryer	PM	1.76	
		PM <sub>10</sub>	1.76	
		PM <sub>2.5</sub>	1.76	
		NVVO	8.50	
		VCM	6.80	
DR-2401B	PVC Dryer	PM	1.76	
		PM <sub>10</sub>	1.76	
		PM <sub>2.5</sub>	1.76	
		NVVO	8.50	
		VCM	6.80	
DR-2401C	PVC Dryer	PM	1.80	
		PM <sub>10</sub>	1.80	

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		PM <sub>2.5</sub>	1.80	
		NVOC	10.00	
		VCM	8.00	
TK551B, TK551C, TK551D, TK553A, TK553B, TK2503A, TK2503B, TK2503C TK2503D, TK2503E, TK2503F, TK2503G, TK2503H, TK2503I	Plant 2 Silos	PM	2.95	
		PM <sub>10</sub>	2.95	
		PM <sub>2.5</sub>	2.95	
		VCM	2.10	
UNLDGA	VCM Unloading	VCM	0.02	
UNLDGB	VCM Unloading	VCM	0.02	
UNLDGC	VCM Unloading	VCM	0.02	
UNLDGD	VCM Unloading	VCM	0.02	
UNLDGE	VCM Unloading	VCM	0.02	
UNLDGF	VCM Unloading	VCM	0.02	
UNLDGG	VCM Unloading	VCM	0.02	
UNLDGH	VCM Unloading	VCM	0.02	
UNLDGJ	VCM Unloading	VCM	0.02	
UNLDGK	VCM Unloading	VCM	0.02	
UNLDGL	VCM Unloading	VCM	0.02	
UNLDGM	VCM Unloading	VCM	0.02	
UN2701A	Boiler	PM	0.63	
		PM <sub>10</sub>	0.63	
		PM <sub>2.5</sub>	0.63	
		VOC	0.41	
		NO <sub>x</sub>	4.56	
		SO <sub>2</sub>	1.09	
		CO	8.36	
UN2701B	Boiler	PM	0.63	
		PM <sub>10</sub>	0.63	
		PM <sub>2.5</sub>	0.63	
		VOC	0.41	
		NO <sub>x</sub>	4.56	
		SO <sub>2</sub>	1.09	
		CO	8.36	
UN2701C	Boiler	PM	0.63	
		PM <sub>10</sub>	0.63	

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		PM <sub>2.5</sub>	0.63	
		VOC	0.41	
		NO <sub>x</sub>	4.56	
		SO <sub>2</sub>	1.09	
		CO	8.36	
UN2703A	VCM Incinerator	PM	0.20	
		PM <sub>10</sub>	0.20	
		PM <sub>2.5</sub>	0.20	
		NO <sub>x</sub>	2.10	
		SO <sub>2</sub>	0.01	
		CO	0.16	
		VCM	0.60	
		HCl	0.20	
		Cl <sub>2</sub>	0.02	
		VOC	0.03	
UN2703B	VCM Incinerator	PM	0.20	
		PM <sub>10</sub>	0.20	
		PM <sub>2.5</sub>	0.20	
		NO <sub>x</sub>	2.10	
		SO <sub>2</sub>	0.01	
		CO	0.16	
		VCM	0.60	
		HCl	0.20	
		Cl <sub>2</sub>	0.02	
		VOC	0.03	
		VCM	0.69	
P2FUG	Plant 2 Fugitives (5)	VCM	1.81	
		NVOC	0.25	
		Exempt Solvent	0.17	
		IOC-U	0.15	
PL2WWSTRIP	Wastewater Stripper	VCM	0.14	
PLBIO	Biological Treatment	VCM	0.15	
TK2115A	VOC Storage Tank	VOC	0.01	
TK2115B	VOC Storage Tank	VOC	0.01	
TK2131	VOC Storage Tank	VOC	7.86	
TK2132	VOC Storage Tank	VOC	1.79	

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TK2133	VOC Storage Tank	VOC	17.50	
<b>Plant 3</b>				
DR3401A	PVC Dryer	NVVOG	11.50	
		PM	2.05	
		PM <sub>10</sub>	2.05	
		PM <sub>2.5</sub>	2.05	
		VCM	6.90	
DR3401B	PVC Dryer	NVVOG	11.50	
		PM	2.05	
		PM <sub>10</sub>	2.05	
		PM <sub>2.5</sub>	2.05	
		VCM	6.90	
DR3401C	PVC Dryer	NVVOG	13.13	
		PM	2.40	
		PM <sub>10</sub>	2.40	
		PM <sub>2.5</sub>	2.40	
		VCM	7.88	
TK3503A, TK3503B, TK3503C, TK3503D, TK3503E, TK3503F, TK3503G, TK3503H, TK3503I	Plant 3 Silos	PM	1.44	
		PM <sub>10</sub>	1.44	
		PM <sub>2.5</sub>	1.44	
		VCM	0.90	
UN3701A	Boiler	CO	1.31	
		NO <sub>x</sub>	1.10	
		PM	0.63	
		PM <sub>10</sub>	0.63	
		PM <sub>2.5</sub>	0.63	
		SO <sub>2</sub>	1.04	
		VOC	0.39	
UN3701B	Boiler	CO	1.10	
		NO <sub>x</sub>	4.63	
		PM	0.63	
		PM <sub>10</sub>	0.63	
		PM <sub>2.5</sub>	0.63	
		SO <sub>2</sub>	1.04	
		VOC	0.39	
UN3701C	Boiler	CO	1.10	

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		NO <sub>x</sub>	4.63	
		PM	0.63	
		PM <sub>10</sub>	0.63	
		PM <sub>2.5</sub>	0.63	
		SO <sub>2</sub>	1.04	
		VOC	0.39	
UN3703A	Incinerator	Cl <sub>2</sub>	0.02	
		CO	0.41	
		HCl	0.05	
		NO <sub>x</sub>	1.03	
		VCM	0.06	
		SO <sub>2</sub>	0.01	
		PM	0.20	
		PM <sub>10</sub>	0.20	
		PM <sub>2.5</sub>	0.20	
		VOC	0.03	
UN3703B	Incinerator	Cl <sub>2</sub>	0.02	
		CO	0.41	
		HCl	0.05	
		NO <sub>x</sub>	1.03	
		VCM	0.06	
		SO <sub>2</sub>	0.01	
		PM	0.20	
		PM <sub>10</sub>	0.20	
		PM <sub>2.5</sub>	0.20	
		VOC	0.03	
TK3132	VOC Storage Tank	VOC	2.68	
TK3133	VOC Storage Tank	VOC	16.00	
TK3134	VOC Storage Tank	VOC	0.98	
TK3510	PVC Storage Silo	PM	0.18	
		PM <sub>10</sub>	0.18	
		PM <sub>2.5</sub>	0.18	
		VCM	0.01	
P3FUG	Plant 3 Fugitive (5)	VCM	1.42	
		NVOC	0.37	
		Exempt Solvent	0.24	

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		IOC-U	0.16	
PL3WWSTRIP	Wastewater	VCM	0.14	
PL3BIO	Lagoon	VCM	0.10	
<b>Small Organic Liquid Storage Vessels</b>				
TK107	Tank TK107	VOC	0.20	
TK108	Tank TK108	VOC	0.20	
TK109	Tank TK109	VOC	0.44	
TK110	Tank TK110	VOC	0.05	
TK111	Tank TK111	VOC	0.05	
TK120	Tank TK120	VOC	0.27	
TK121	Tank TK121	VOC	0.62	
TK353	Tank TK353	VOC	0.13	
TK2119	Tank TK2119	VOC	0.66	
TK2120	Tank TK2120	VOC	0.66	
TK2121	Tank TK2121	VOC	0.26	
TK2122	Tank TK2122	VOC	0.26	
TK2125	Tank TK2125	VOC	0.46	
TK2126	Tank TK2126	VOC	0.46	
TK2130	Tank TK2130	VOC	0.02	
TK3115	Tank TK3115	VOC	0.24	
TK3116	Tank TK3116	VOC	0.01	
TK3117	Tank TK3117	VOC	0.09	
TK3118	Tank TK3118	VOC	0.01	
TK3119	Tank TK3119	VOC	0.64	
TK3120	Tank TK3120	VOC	0.64	
TK3121	Tank TK3121	VOC	0.57	
TK3122	Tank TK3122	VOC	0.57	
TK3124	Tank TK3124	VOC	0.72	
TK3125	Tank TK3125	VOC	0.72	
<b>Emission Caps</b>				
<b>Total Site Emissions (all EPNs) for routine operations</b>		CO		257.8
		Cl <sub>2</sub>		0.6
		HCl		2.2
		NO <sub>x</sub>		151.6
		SO <sub>2</sub>		40.9
		PM		140.6



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		PM <sub>10</sub>		22.6
		PM <sub>2.5</sub>		22.6
		VCM		61.4
		VOC		152.9
<b>Sitewide Reactors, Refer to Footnote (6) for EPNs</b>		VCM	7.99	
<b>Maintenance, Start-Up, and Shutdown Emissions</b>				
MSSSPHERE	VCM Storage Sphere MSS includes TK2901 A-D, TK3901 A-B	VCM	62.29	0.25
MSSSOLV	Solvent Usage	VOC	1.32	1.37
MSSMISC	Turnarounds, Process Vessels, Fugitive component repair	VCM	12.40	0.22

- (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.
  - IOC-U - inorganic compounds (unspeciated)
  - PM - total particulate matter, suspended in the atmosphere
  - PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter
  - PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter
  - NVVOG - non-vinyl chloride volatile organic compounds
  - VCM - vinyl chloride monomer
  - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
  - CO - carbon monoxide
  - NO<sub>x</sub> - total oxides of nitrogen
  - SO<sub>2</sub> - sulfur dioxide
  - HCl - hydrogen chloride
  - Cl<sub>2</sub> - chlorine
  - Exempt Solvent - those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.
- (3) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (4) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (5) The following EPNs are included: PL251A, PL251B, PL251C, PL251D, PL251E, PL251F, PL2251A, PL2251B, PL2251C, PL2251D, PL2251E, PL2251F, PL3251A, PL3251B, PL3251C, PL3251D, PL3251E, and PL3251F.

Date: January 12, 2015