EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number S-18925

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**
EP-1	Processing Area Stack A	VOC	0.01	0.01
EP-2	Processing Area Stack B	Inorganics	0.19	0.82
EP-5	Fugitives - Tank Farm (4)	VOC	0.03	0.12
		Inorganics	0.01	0.01
EP-5A	Fugitives - Bleach Tank Farm (4)	Inorganics	0.01	0.01
EP-7A	Truck Loadings excluding Bleach - Total VOC loading	VOC	0.82	0.43
EP-7B	Emissions			
EP-7C	Truck Loading of Bleach	Inorganics	0.01	0.01
EP-8	Fugitives - Manufacturing Building	VOC	5.10	2.66
		Exempt VOC	0.01	0.01
		Inorganics	0.02	0.02
		PM 0.02	0.03	
EP-9 (5)	Regenerative Thermal Oxidizer	VOC	1.53	2.07
		Exempt VOC	0.97	2.52
		Inorganics	0.37	1.64
		CO 0.02	0.07	
		NO_x	0.08	0.36
		PM	0.01	0.04
		SO_2	0.01	0.01

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EP-9 (5)	Carbon Adsorption System	VOC	0.19	0.82
		Exempt VOC	0.22	0.95
		Inorganics	0.01	0.01
EP-12	Boiler No. 2	VOC	0.13	0.55
		CO	0.77	3.38
		NO_x	3.00	8.21
		PM	0.50	0.69
		SO_2	6.39	2.36
EP-23	Boiler No. 4	VOC	0.11	0.46
		CO	0.64	2.81
		NO_x	1.48	6.47
		PM	0.11	0.46
		SO_2	0.01	0.05
EP-24	Neutralization Tank No. 1	VOC	0.01	0.01
EP-24A	Neutralization Tank No. 2	VOC	0.01	0.01
EP-24B	Neutralization Tank No. 3	VOC	0.01	0.01
EP-25	Fugitives - Production and Cell Building No. 1	VOC	0.02	0.01
		Inorganics	0.08	0.29
EP-25A	Fugitives - Production and Cell Building No. 2	VOC	0.01	0.01
		Inorganics	0.06	0.28
EP-30	Collection Tank No. 1	VOC	0.01	0.01
EP-30A	Collection Tank No. 2	VOC	0.01	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY**
EP-31	QAS Production Tank No. 3	VOC	0.01	0.01
EP-32	QAS Production Tank No. 1	VOC	0.01	0.01
EP-33	QAS Production Tank No. 2	VOC	0.01	0.01
EP-34	QAS Production Tank No. 4	VOC	0.01	0.01
EP-35	Conversion Storage Tank No. 1	VOC	0.01	0.01
EP-35A	Conversion Storage Tank No. 1	VOC	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) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
CO - carbon monoxide
NO_x - total oxides of nitrogen
PM - particulate matter, suspended in the atmosphere, including PM_{10}
PM_{10} - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.
SO_2 - sulfur dioxide
Exempt VOC - chemical compounds that are non-photochemically reactive

Inorganics include:
HBr - hydrogen bromide
HCl - hydrogen chloride
HF - hydrogen fluoride
HI - hydrogen iodine
H_2O_2 - hydrogen peroxide
Cl_2 - chlorine
NH_2OH - hydroxylamine

H_2SO_4 - sulfuric acid

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(4) Fugitive emissions are an estimate based on component count.
(5) CAS is backup for RTO - CAS outlet routed into same stack as RTO outlet.

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

8,760 hrs/year

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

Dated June 3, 2005