

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 18972

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
E1	E ACID (wet scrubber)	Acid	0.02	0.04
		Inorganics	<0.01	<0.01
		INOF	0.06	0.14
E2	E IPA SCRUB (wet scrubber)	VOC	0.99	2.17
E3	E ORG/VOC (uncontrolled)	VOC	6.68	14.63
E4	E ACID (wet scrubber)	INOF	0.01	0.03
W1	W ACID/ALKALI (wet scrubber)	Acid	0.23	0.51
		Alkali	0.03	0.07
		INOF	0.02	0.05
W2	W IPA SCRUB (wet scrubber)	VOC	0.99	2.17
W3	W THERMOX (thermal oxidizer)	VOC	0.39	0.86
		Non-VOC	0.01	0.01
		PM	0.01	0.03
		SO <sub>2</sub>	<0.01	0.01
		NO <sub>x</sub>	0.24	1.05
		CO	0.05	0.21
W4	W ORG/VOC (uncontrolled)	VOC	3.34	7.32
		Non-VOC	2.18	4.77
		Inorganics	<0.01	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
W5	W ACID (wet scrubber)	Acid	0.11	0.23
		Alkali	0.02	0.04
		Inorganics	0.01	0.02
		INOF	0.04	0.05
		Non-VOC	0.16	0.34
W6	W ALKALI (wet scrubber)	Alkali	0.03	0.07
		Acid	0.09	0.20
A1	STP2 ACID/ALKALI (wet scrubber)	Acid	0.23	0.50
		Alkali	<0.01	0.02
		Inorganics	<0.01	<0.01
		INOF	0.05	0.11
		VOC	0.13	0.28
		Non-VOC	0.01	0.02
M1A1	EXPAN ACID 1 (wet scrubber)	Acid	0.13	0.29
		Alkali	<0.01	<0.01
		VOC	<0.01	<0.01
		Non-VOC	0.16	0.35
		Inorganics	<0.01	0.01
		INOF	0.05	0.11
M1A2	EXPAN ACID 2 (wet scrubber)	Acid	0.13	0.29
		Alkali	<0.01	<0.01
		VOC	<0.01	<0.01
		Non-VOC	0.16	0.35
		Inorganics	<0.01	0.01
		INOF	0.05	0.11
M1A3	EXPAN ACID 3 (wet scrubber)	Acid	0.13	0.29
		Alkali	<0.01	<0.01
		VOC	<0.01	<0.01
		Non-VOC	0.16	0.35
		Inorganics	<0.01	0.01
		INOF	0.05	0.11
M1A4	EXPAN ACID 4 (wet scrubber)	Acid	0.13	0.29
		Alkali	<0.01	<0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
	(backup only)	VOC	<0.01	<0.01
		Non-VOC	0.16	0.35
		Inorganics	<0.01	0.01
		INOF	0.05	0.11
M1UC1	EXPN ALKALI 1 (wet scrubber)	Alkali	0.06	0.13
		Acid	0.01	0.02
M1UC2	EXPN ALKALI 2 (wet scrubber)	Alkali	0.06	0.13
	(backup only)	Acid	0.01	0.02
UTO1	EXPN THERMOX 1 (Thermal oxidizer)	VOC	0.92	2.04
		Non-VOC	0.01	0.12
		Inorganics	<0.01	<0.01
		Acid	<0.01	0.01
		PM	0.01	0.02
		SO <sub>2</sub>	0.01	<0.01
		NO <sub>x</sub>	0.83	0.19
		CO	0.04	0.17
WYTANKFU	W YARD TANKS (storage tanks)	VOC	0.17	0.36
		Non-VOC	0.01	0.01
		Acid	0.02	0.05
		INOF	<0.01	<0.01
EYTANKFU	E YARD TANKS (storage tanks)	Acid	<0.01	<0.01
		Alkali	<0.01	<0.01

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- (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 General Rule 101.1  
Non-VOC - volatile organic compounds specifically excluded from the definition of volatile organic compounds in General Rule 101.1
- NO<sub>x</sub> - total oxides of nitrogen
- SO<sub>2</sub> - sulfur dioxide
- PM - particulate matter
- CO - carbon monoxide
- INOF - inorganic fluoride compounds

\* These allowable emission rates do not represent the potential increases allowed under Special Condition No. 4.

Hydrofluoric acid is grouped with the inorganic fluoride compounds.

Dated \_\_\_\_\_