

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 18915

This table lists the maximum allowable emission rates from all sources of air contaminants covered by this permit. From the date of this table until the start-of-operation of expanded Fab 11 which includes installation of the rotary concentrator/thermal oxidizer, the maximum allowable emission rates table dated June 4, 1997 remains in effect. Submission of TNRCC Form PI-3A as required establishes start-of-operation date and the effective date of this table.

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name	Name (2)	lb/hr	TPY
(3)				
Building A				
AS1	Fab 10 and Fab 11	VOC	18.70	9.46(4)
	Processes Controlled by	non-VOC		26.10
	13.00(4)			
	Thermal Oxidizer	Inorganics	<0.01	<0.01
		PM (5)	<0.01	0.02
		SO ₂	0.04	0.01
		NO _x	1.02	0.24
		CO	1.62	0.37
		TOC	0.35	0.08
AF1A and/or AF1B	Fab 10 and Fab 11	VOC	0.09	0.41
and/or AF2 and/or		Processes Controlled by		
	Halocarbons	<0.01	0.01	
AF3A and/or AF3B	Alkali Scrubbers, Acid	Acids		0.38
	1.66			
and/or AF4 and/or		Scrubbers, and Guardian		
	Inorganics	0.16	0.07	
AF5A and/or AF5B	Oxidizers	Specialty Gases	<0.01	0.01
and/or AF6				
ABB1	Calibration Baths	Halocarbons	1.03	4.50
AST1	Waste Solvent Tank	VOC	<0.01	0.01
		non-VOC	0.10	0.26

ABS1	Two Boilers	NO _x	0.82	3.20
		SO ₂	<0.01	0.02
		CO	0.18	0.76
		PM (5)	0.10	0.43
		TOC	0.07	0.29
AIWT1-3	Industrial Wastewater Treatment Tanks 1, 2, and 3	VOC (6)	<0.01	<0.01

Buildings B and F

BS1 and/or BS2 and/or FS1	Uncontrolled Assembly, Cleaning and Prototype 1.86	VOC	5.09	22.30
		non-VOC		0.42
and/or FS2	Processes	Halocarbons	0.53	2.33
		Acids	<0.01	<0.01
		PM (5)	0.06	0.28
		Inorganics	<0.01	<0.01

(1) Emission point identification from site plan.

(2) VOC - volatile organic compounds and as identified on Confidential Table 1 (dated 12/5/97).

PM - particulate matter, suspended in the atmosphere, including PM₁₀ and as identified on Confidential Table 1 (dated 9/9/97).

PM₁₀ - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.

NO_x - nitrogen oxides

SO₂ - sulfur dioxide

CO - carbon monoxide

TOC -total organic compounds (includes methane)

Non-VOC -carbon compounds determined not to affect the formation of ozone and as identified on Confidential Table 1 (dated 12/5/97).

Halocarbons - as identified on Confidential Table 1 (dated 12/5/97).

Acids -as identified on Confidential Table 1 (dated 12/5/97).

Inorganics - as identified on Confidential Table 1 (dated 12/5/97).

(3) Rates for any 12-consecutive month period.

(4) Includes some uncontrolled emissions for maintenance of add-on control system.

(5) Includes PM₁₀.

(6) Fugitive emissions.

* The facilities may operate: Hours/day 24 Days/week _____
7 Weeks/year 52

Dated_____