EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 594

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 *	Source	Air Contaminant	<u>Emission</u>	Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
4A	Gold Kettles Stack	PM_{10} NO_{x} SO_{2} CO VOC HNO_{3}	2.2 2.7 0.01 0.06 0.05 6.3	7.6 9.2 0.03 0.20 0.16 22.0
4B	By-Products Stack 120.5	PM PM_{10} NO_x	27.5 14.4 0.8	63.1 3.5
	268.5 140.2	SO₂ CO VOC	61.3 112 32.0	491
4C	Slimes Leach Tanks	H_2SO_4	0.02	0.09
4D	Gold and Silver Melt Furnace	PM_{10} SO_2 CO VOC	0.5 0.02 1.1 1.3	2.2 0.10 4.8 5.7
4E	Slag Crusher	PM_{10}	0.6	1.3
4F	Fugitives (4)	PM PM ₁₀	1.2 0.7	5.3 3.1

NO_x	0.1	0.4
SO ₂	2.4	10.5
CO	4.4	19.3
VOC	1.3	5.7

Permit No. 594 Page 2

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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(Including Species)

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

PM - particulate matter (including species)

PM₁₀ - particulate matter 10 microns and smaller (including species)

CO - carbon monoxide

 HNO_3 - nitric acid H_2SO_4 - sulfuric acid

(4) Fugitive emissions are an estimate only.

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

Plant Operational: <u>24 Hrs/day _ 7 Days/week or _ 52 Weeks/year</u>

Following operations limited to the indicated maximum annual operating hours:

Gold Kettles: 6,880 Hrs/year By-Products Stack: 8,760 Hrs/year

Slimes and Leach Tanks: 8,760 Hrs/year Gold and Silver

Melt Furnace: 8,760 Hrs/year

Slag Crusher: 4, 212 Hrs/year Fugitives: 8,760 Hrs/year

<u>Maximum Annual Throughput</u>: 2,000 tons charged to bottom blown oxygen cupel and conventional cupel furnaces

Dated_____