

Table 51
Nkamouna Environmental and Social Impact Assessment
Inventory of Air Emissions

(Based on 1,500 tpd of PUG concentrate and 350 days operation per year)

Source	Control Equipment	Stack Gas ACFM	Emission components, lbs/day							
			SOx	CO2	CO	PM	HAPS	HCl	NOx	VOC MW=24
Leach vent scrubber	Packed tower with soda ash	10,000	44							
100 % SO2 Facility	Packed tower with soda ash	6,500	17							
CHP boilers (2 stacks)	Multicyclones	15,000	6	290,000	1170	473(a)	22	11	125	70
	Electrostatic precipitators	"	"	"	"	3(b)	"	"	"	"
Pyrohydrolysis stack	Wet venturi Packed tower ID fan sprays	6,000		68,000	40			144		
Mobile equipment diesel exhaust	none			12,000	50					
Totals (lbs/day)		37,500	67	370,000	1,260	473(a)	22	155	125	70
						3(b)				
Total (tpa)			11	59,000	200	75(a)	3.5	25	20	11
						0.5(b)				
World Bank limits (lbs/day)			2,600	none	none	76	63	none	340	none
World Bank limits (tpa)			414			12	10		54	

(a) Exceeds World Bank limit using mechanical collector (multi-cyclones)

(b) MACT controls using wet or dry electrostatic precipitators (ESP)