

Minnesota Steel Industries
Nashwauk, Minnesota

Barr Engineering Co.
July 8, 2005

TABLE 23-2
PRELIMINARY - Controlled Emissions Summary (tons/yr)

Criteria Pollutant	Mine		Concentrator		Pellet Plant		DRI		Mini-Mill		Slag		Point Sources	Fugitive Sources	Total Facility
	Point	Fugitive	Point	Fugitive	Point	Fugitive	Point	Fugitive	Point	Fugitive	Point	Fugitive	ton/yr	ton/yr	ton/yr
PM:	6	297	4.3	406	325	5.2	268	91	298	5.2	30	30	901	834	1,735
PM 10:	6	126	4.3	139	325	2.5	268	43	235	2.5	14	14	838	327	1,165
SOx:	0	0	0.2	0	297	0.0	120	0	275	0.0	0	0	692		692
NOx:	0	0	10.9	0	367	0.0	263	0	572	0.0	0	0	1,213		1,213
CO:	0	0	2.5	0	79	0.0	216	0	2,790	0.0	0	0	3,088		3,088
VOC:	0	0	0.4	0	37	0.0	13	0	11	0.0	0	0	61		61
Pb:	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-01	0.00E+00	0.00E+00	0.00E+00	7.20E-03	0.00E+00		0.00E+00	1.30E-01		1.30E-01

HAP Compounds	Mine		Concentrator		Pellet Plant		DRI		Mini-Mill		Slag		Point Sources	Fugitive Sources	Total Facility
	Point	Fugitive	Point	Fugitive	Point	Fugitive	Point	Fugitive	Point	Fugitive	Point	Fugitive	ton/yr	ton/yr	ton/yr
Acenaphthene			4.93E-06		6.97E-06		2.06E-05		1.06E-05				4.31E-05		4.31E-05
Acenaphthylene			9.96E-06		1.22E-05		2.79E-05		1.58E-05				6.59E-05		6.59E-05
Acetaldehyde			1.03E-04		1.42E-04		1.92E-04		1.42E-04				5.80E-04		5.80E-04
Acrolein			1.74E-05		2.21E-05		3.02E-05		2.21E-05				9.18E-05		9.18E-05
Anthracene			1.45E-06		4.16E-06		2.02E-05		9.03E-06				3.48E-05		3.48E-05
Antimony Compounds					4.35E-06				2.79E-06				7.14E-06		7.14E-06
Arsenic Compounds	7.86E-07	3.81E-06	4.94E-07	2.53E-05	3.16E-04	1.33E-06	1.60E-03	2.39E-05	7.89E-01				7.91E-01	5.43E-05	7.91E-01
Benzene			8.88E-04		3.23E-03		1.71E-02		7.49E-03				2.87E-02		2.87E-02
Beryllium Compounds	2.55E-07	1.24E-06	1.61E-07	8.56E-06	4.32E-05	4.57E-07	1.21E-04	8.26E-06	2.68E-01				2.68E-01	1.85E-05	2.68E-01
1,3 Butadiene			3.93E-06		5.94E-06		7.94E-06		5.94E-06				2.37E-05		2.37E-05
Cadmium Compounds	1.98E-07	9.60E-07	1.24E-07	2.59E-05	1.30E-03	1.52E-06	8.48E-03	3.14E-05	1.77E+00				1.78E+00	5.97E-05	1.78E+00
Chlorine, Chlorides															
Chromium Compounds	3.77E-07	1.83E-06	2.37E-07	6.50E-05	1.66E-03	2.64E-06	1.07E-02		1.72E+00		3.23E-01		1.73E+00	3.23E-01	2.05E+00
Cobalt Compounds	1.83E-06	8.89E-06	1.15E-06	4.02E-05	3.65E-04	4.06E-06	9.16E-04	7.27E-05	2.44E+00				2.44E+00	1.26E-04	2.44E+00
Dichlorobenzenes					1.31E-03		9.02E-03		3.74E-03				1.41E-02		1.41E-02
Formaldehyde			2.00E-04		8.22E-02		5.64E-01		2.34E-01				8.81E-01		8.81E-01
Hexane					1.97E+00		1.35E+01		5.61E+00				2.11E+01		2.11E+01
Hydrogen Chloride (as Cl)					2.96E+00		8.98E-01						3.86E+00		3.86E+00
Hydrogen Fluoride (as F)					1.32E+01		9.64E-01						1.42E+01		1.42E+01
Lead Compounds	1.86E-06	9.01E-06	1.17E-06	6.29E-05	1.23E-01	2.82E-06	3.95E-03	5.07E-05	8.77E-03				1.36E-01	1.25E-04	1.36E-01
Magnesium Compounds	1.19E-01	5.76E-01	7.46E-02	1.09E+01	3.72E-01	5.41E-03	4.19E-01	1.01E-01	5.79E-02	3.86E-02	1.61E+00		1.04E+00	1.32E+01	1.43E+01
Manganese Compounds	1.33E-02	6.44E-02	8.34E-03	1.27E+00	1.30E-01	2.10E-03	1.52E-01	3.86E-02	1.15E-02	1.07E-03	1.95E+00		3.15E-01	3.33E+00	3.65E+00
Mercury Compounds	3.19E-08	1.55E-07	2.01E-08	2.08E-06	1.80E-01	2.60E-08	1.96E-03	4.56E-07	1.62E-02				1.98E-01	2.72E-06	1.98E-01
Naphthalene			1.42E-04		8.12E-04		4.79E-03		2.05E-03				7.79E-03		7.79E-03
Nickel Compounds	6.39E-08	3.10E-07	4.01E-08	1.19E-05	2.30E-03	1.89E-07	1.58E-02	4.26E-06	1.51E-01		5.07E-02		1.70E-01	5.07E-02	2.20E-01
Selenium Compounds	1.05E-06	5.08E-06	6.58E-07	3.75E-05	1.39E-04	1.76E-06	3.05E-04	3.20E-05	1.03E+00				1.03E+00	7.64E-05	1.03E+00
Toluene			3.29E-04		4.06E-03		2.60E-02		1.10E-02				4.14E-02		4.14E-02
Xylene			2.26E-04		2.41E-04		3.38E-04		2.41E-04				1.05E-03		1.05E-03