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KOOGLER & ASSOCIATES

ENVIRONMENTAL SERVICES

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Project No. 263-03-10

Fax

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Date: <u>10/12/04</u>	Time:
Sent By: <u>JJK</u>	

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Annual Emissions Summary (1)

Rinker Materials Corporation

Miami Cement Plant

Year	Pollutant (tpy)						SAM
	PM	PM10	SO ₂	NO _x	VOC	CO	
2003	29.7	25.3	11.9	1468	41.1	841	6.4
2002	11.7	10.0	11.7	1309	54.1	988	6.3
2001	10.5	8.9	8.5	948	35.0	347	4.6
2000 (2)	33.9	28.9	1492	1742	33.3	631	-
1999	116.0	97.8	1070	2499 (3)	46.8	1735	-
1998	114.7	97.5	1696	2569 (3)	46.7	1724	-
1997	115.1	97.9	1402	2314 (3)	46.8	1733	-
1996	118.7	100.9	1511	2526 (3)	48.3	1790	21.9
1995	126.6	107.6	1459	3451 (4)	47.0	1740	21.7
1994	169.5	144.1	1789	4649	45.2	1676	-
1993	126.2	107.3	1530	4813	46.8	1735	-
1992	122.1	103.8	1550	4654	45.3	1677	-

using 1998
Heat content.

(1) 1992 - March 2000 emissions are for Kilns 1 and 2

March 2000 - 2003 emissions are for Kiln and Cooler

(2) Kilns 1 and 2 shut down 4/2000 and PH/PC Kiln started in March 2000

(3) NO_x @ 2.0 lb NO_x/mmBTU

(4) NO_x @ 2.0 lb NO_x/mmBTU from 6/1/95

RINKER - MIAMI - 1998

	KILN #1		KILN #2		KILN TOTAL	
	tons	hours	tons	hours	tons	hours
DRY FEED TOTAL	450,411	8,072	451,253	8,116	901,665	16,188
TPH	55.80		55.60		55.70	
CLINKER TOTAL	258,857	8,072	259,341	8,116	518,198	16,188
TPH	32.07		31.95		32.01	
TPD	770		767		768	

FUEL	KILN #1		KILN #2		TOTAL	
	tons	hours	tons	hours	tons	hours
coal, tons	33,990		34,054		68,044	tons
pet coke, tons	7,035		7,049		14,084	tons
oil, gallon	1,810,640		1,814,026		3,624,666	gallon
gas, mcf	7,993		8,007		16,000	mcf
tires, tons	40		0		40	tons

HEAT	KILN #1		KILN #2		TOTAL		mmBtu/unit
	tons	hours	tons	hours	tons	hours	
tires	1,200		0		1,200		
coal	870,150 ✓		871,777		1,741,926	mmBtu	25.6
pet coke	185,735 ✓		186,082		371,818	mmBtu	26.4
oil, gal.	219,087 ✓		219,497		438,585	mmBtu	0.121
gas, mcf (1000 ft ³)	8,200 ✓		8,216		16,416	mmBtu	1.026
	1,283,173 + (200)		1,285,572		(2,568,745) + (200)		
fuel eff.	4.96		4.96		4.96	mmBtu per ton clk.	

FINISH MILL #1	FINISH MILL #2	FINISH MILL #3	FINISH MILL #4
tons	hours	tons	hours

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RINICKER - MIAMI

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CALENDAR 1999

	CRUSHER		RAW MILLS		KILN #1		KILN #2		KILN TOTAL	
	tons	hours	tons	hours	tons	hours	tons	hours	tons	hours
DRY FEED TOTAL TPH					444,535 54.58	8,144	425,268 54.58	7,791	869,803 54.58	15,935
CLINKER TOTAL TPH TPD	0	0	0	0	255,480 31.37 753	8,144	244,407 31.37 753	7,791	499,887 31.37 753	15,935
<u>FUEL</u>									TOTAL	
coal tons @ 12856 BTU/lb					41,776		39,965		81,741	tons
pet coke tons @ 14,220 BTU/lb					1,142		1,092		2,234	tons
oil, gallon @ 13040 BTU/gal					1,508,653		1,443,457		2,952,310	gallon
gas, mcf (1000 cu.ft) @ 1,025 BTU/ft ³					12,840		12,284		25,124	mcf
<u>HEAT</u>									TOTAL	
coal					1,044,396		999,129		2,043,525	mmBtu
pet coke					29,685		28,399		58,084	mmBtu
oil, gal.					190,116		181,876		371,991	mmBtu
gas, mcf					13,174		12,603		25,777	mmBtu
					1,277,370		1,222,007		2,499,377	
fuel eff.					5.00		5.00		5.00	mmBtu per ton

YEAR TOTAL TPH	FINISH MILL #1		FINISH MILL #2		FINISH MILL #3		FINIS TONS 1.004/005
	tons	hours	tons	hours	tons	hours	
	98,280 12.5	7,862	98,280 12.5	7,862	124,884 15.9	7,862	114,000 1.004/005

1999

HEAT INPUT										
	BTU/LB	BTU/GAL	BTU/TON	BTU/SCF	TON/YR	GAL/YR	UNITS	MCF/YR	MMBTU/YR	
COAL	12836				81741				2098455	
COKE	14220				2234				63534.96	
OIL		130410				2952310			385010.7	
TIRES			250000		0		0		0	
NG				1025				25124	25752.1	
									2572753	
HEAT EFFICIENCY		5.15E-06	MMBTU/TON							
ALLOWED SO2		OIL	231.0	TON/YR						
		COAL	1621.5	TON/YR						
		TOTAL	1852.5	TON/YR						
EXCESS EMISSIONS			-782.2	TON/YR						

2/21/00
9:49 AM

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1999