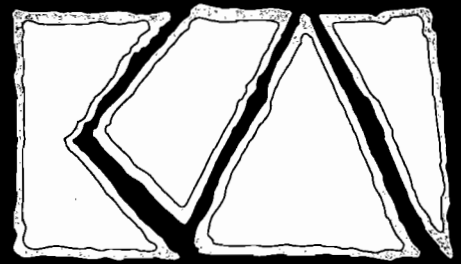
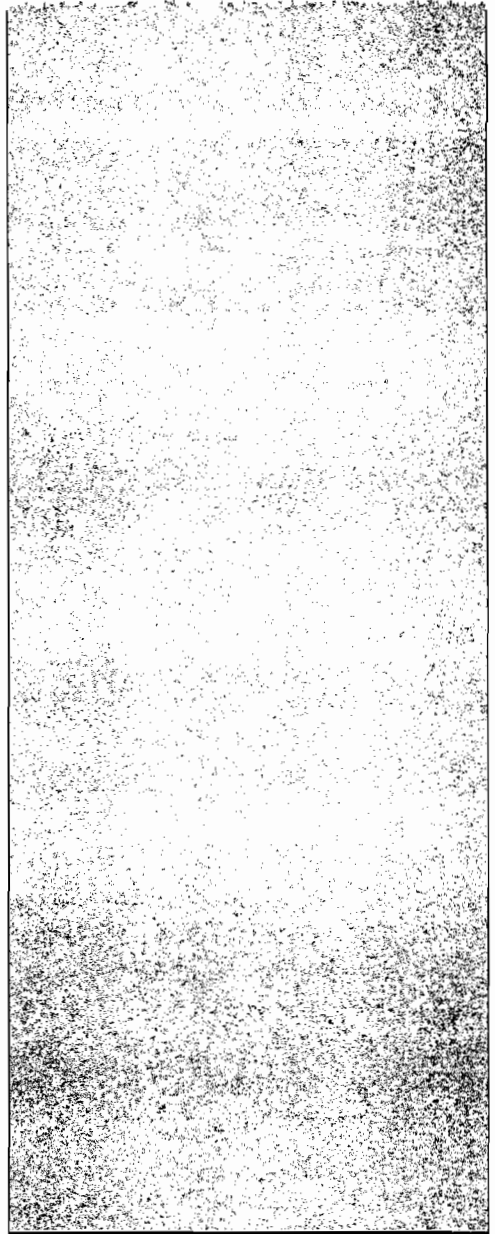


**REPORT IN SUPPORT OF
AN APPLICATION FOR A PSD
CONSTRUCTION PERMIT REVIEW**

**NATURAL RESOURCES OF
CENTRAL FLORIDA, INC.
dba AMERICAN CEMENT COMPANY
Cement Plant
Sumterville, Sumter County, Florida**

September 29, 2005

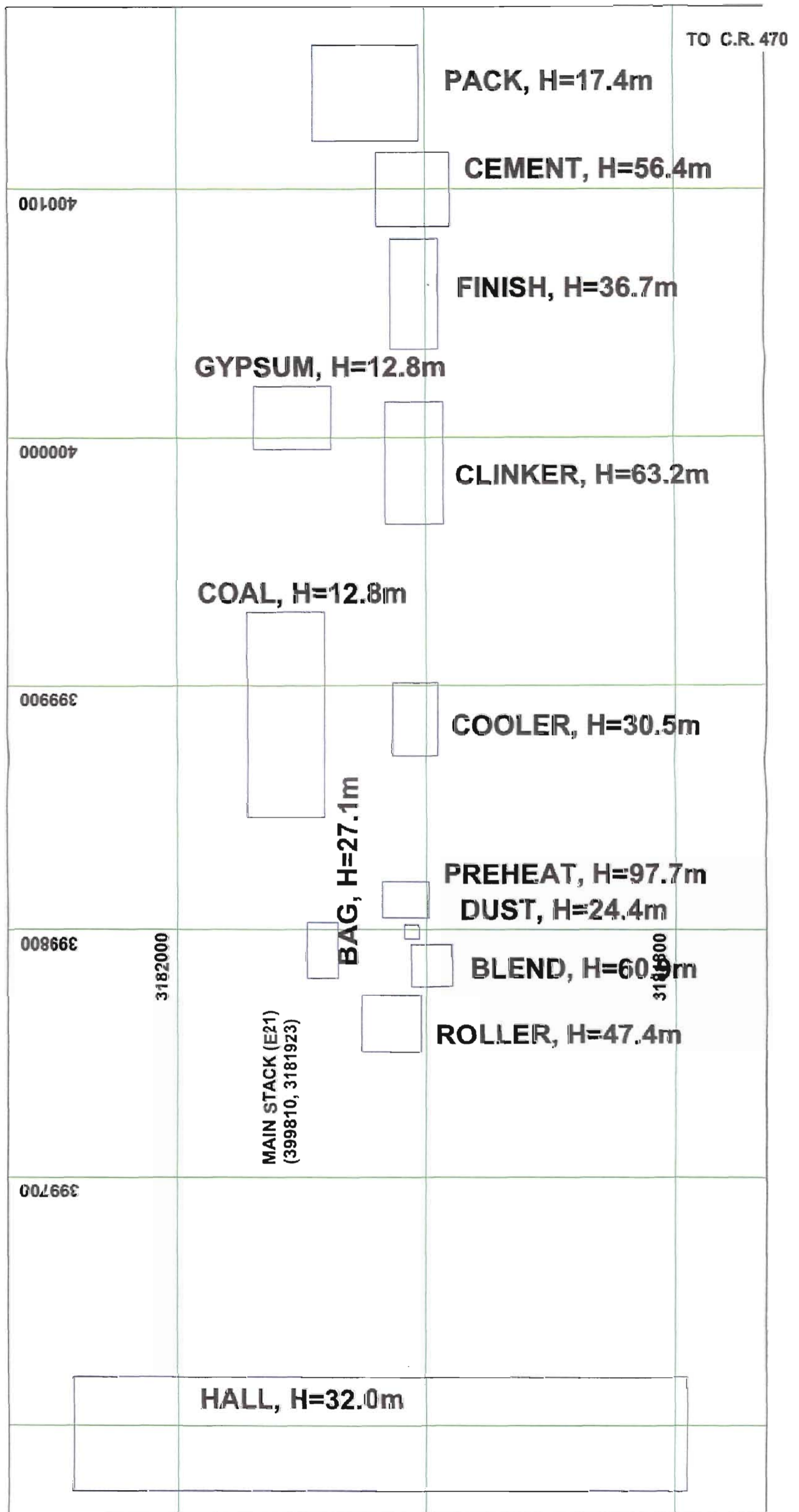


**KOOGLER & ASSOCIATES
ENVIRONMENTAL SERVICES**

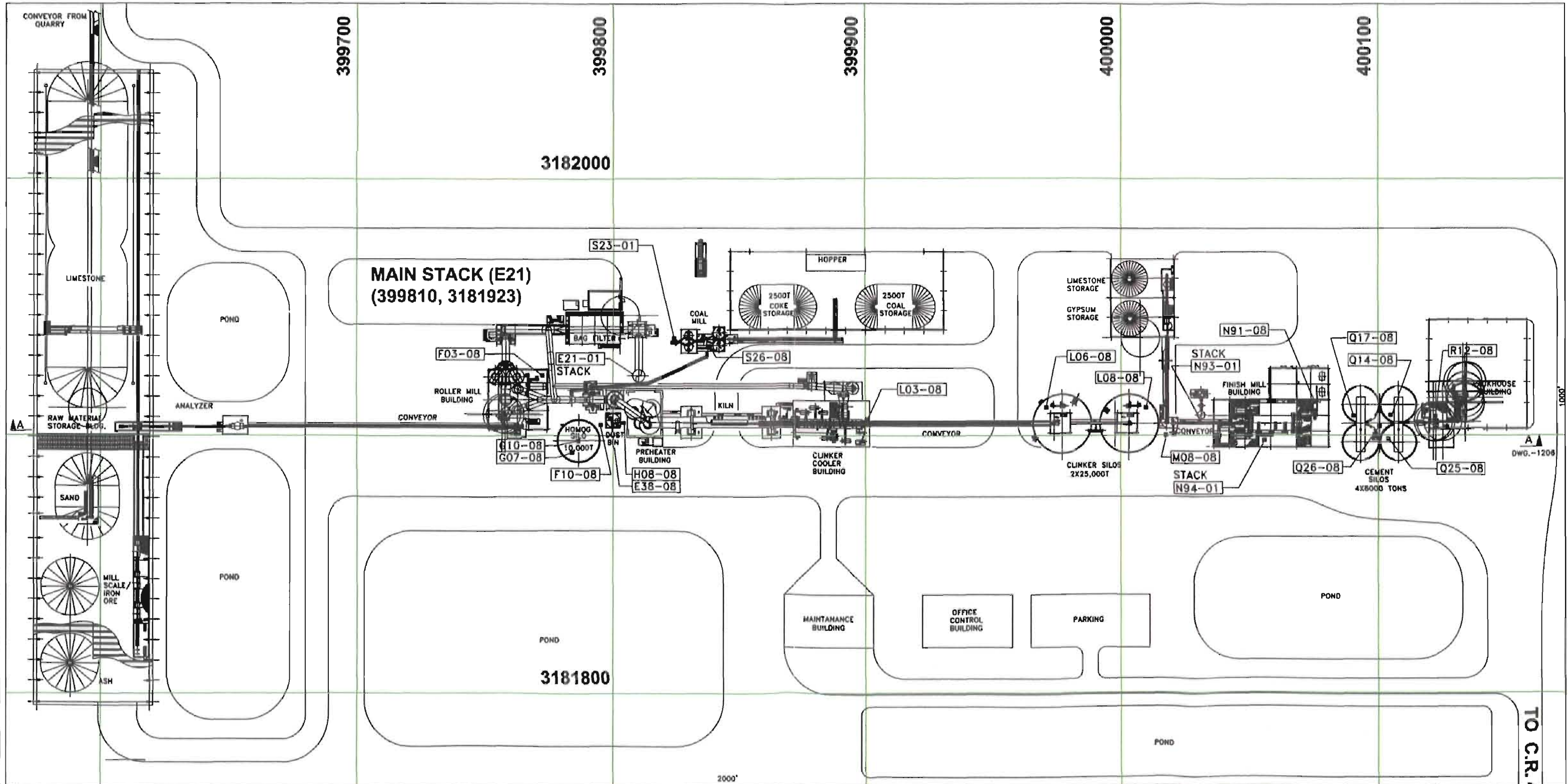
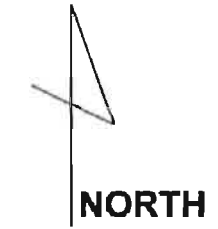
4014 NW THIRTEENTH STREET
GAINESVILLE, FLORIDA 32609
352/377-5822 ■ FAX/377-7158

NATURAL RESOURCES OF CENTRAL FLORIDA, INC.
dba American Cement Company

Scale 1" = 37.5 meters



NATURAL RESOURCES OF CENTRAL FLORIDA, INC.
 dba American Cement Company
 Scale 1" = 37.5 meters



TO C.R. 470

DWG. - 1208

Table 6-3. Summary of Previous PM/PM₁₀/PM_{2.5} BACT Determinations from Preheaters, Precalciners, Calciners, and Kilns at Portland Cement Plants

RBLC ID	Facility Name	State	Permit No.	Date Issued	Process Type	Fuel Used	Throughput	Emission Limit (as presented in Clearinghouse)	Emission Limit (converted *)	Control Equipment Description	% Effic.
Particulate Matter (PM)											
Unknown (1)	FLORIDA ROCK INDUSTRIES, INC.	FL	PSD-FL-350/0010087-013-A	July 2005	PREHEATER/PRECALCINER KILN	COAL	125.0 TPH CLINK	28.8 LB/HR	0.23 lb/ton clinker	Baghouse	
Unknown (2)	RINKER FLORIDA CRUSHED STONE COMPANY	FL	PSD-FL-351/0530021-009-A	7/7/2005	PREHEATER/PRECALCINER KILN	COAL	125.0 TPH CLINK	28.8 LB/HR	0.23 lb/ton clinker	Baghouse	
IA-0070	LEHIGH CEMENT COMPANY - MASON CITY PLANT	IA	17-01-005	12/11/2003	KILN/CALCINER/PREHEATER	COAL	150 TPH CLINK	0.516 LB/ TON CLINK	0.516 lb/ton clinker	ESP.	
VA-0272	ROANOKE CEMENT	VA	20232	6/13/2003	LIME KILN	COAL	1,300,000 TPY CLINK	83.9 LB/H; 297.5 TPY	0.565 lb/ton (hourly); 0.46 lb/ton (annual)	ESP and GCP	
IA-0052	LAFARGE CORPORATION	IA	PROJ. # 00-057	7/1/2002	PREHEATER/PRECALCINER KILN	COAL	3,488 TON PER DAY	0.3 LB/T	0.516 LB/TON Clinker	BAGHOUSE	99.9
WA-0307	PORTLAND CEMENT CLINKERING PLANT	WA	PSD-90-03	10/5/2001	KILN EXHAUST STACK			10.6 LB/H; 46 tpy		BAGHOUSE	
TX-0355	PORTLAND CEMENT MANUFACTURING PLANT	TX	PSD-TX-145 M1	6/29/2001	GRINDING/ PREHEATING/ KILN, K-19			32.24 LB/H; 135.41 tpy		ESP	
TX-0355	PORTLAND CEMENT MANUFACTURING PLANT	TX	PSD-TX-145 M1	6/29/2001	GRINDING/ PREHEATING/ KILN, K-19			36.33 LB/H; 152.59 tpy		ESP	
CO-0043	RIO GRANDE PORTLAND CEMENT CORP.	CO	98PB0893	9/25/2000	PREHEATER/PRECALCINER, KILN		950,000 TPY CLINK	0.01 gr/dscf, 0.105 lb/ton	0.105 lb/ton clinker	High-Temp Baghouse	
FL-0139	SUWANNEE AMERICAN CEMENT COMPANY, INC.	FL	1210465-001-AC	6/1/2000	IN LINE KILN & RAW MILL	Nat. Gas	178 T/H	0.13 LB/T	0.13 LB/T	BAGHOUSE	
MI-0287	HOLNAM, INC.	MI	60-71L	3/20/2000	CEMENT KILNS, WET PROCESS (2)	COAL	100 T/H FEED	130 LB/H, 1.3 lb/ton	1.3 lb/ton	Fabric Filter, Slurry Scrubber	90
CO-0047	HOLNAM, FLORENCE	CO	98-FR-0895	7/29/1999	KILN/PREHEATER/BYPASS & CLINKER COOLER EXHAUST			132.1 T/YR		BAGHOUSE	
IN-0081	LONE STAR INDUSTRIES, INC.	IN	133-10159	4/16/1999	KILN OPERATION	COAL	360 T/H	0.016 gr/dscf, 0.3 lb/ton	0.3 lb/ton	ESP	
CO-0048	HOLNAM, LAPORTE CO.	CO	11LR338-1	9/22/1998	CALCINER/ KILN		584,000 T/YR	27.3 LB/H	0.33 lb/ton	BAGHOUSE.	99.9
NO-0112	LONE STAR INDUSTRIES, INC.	IN	133-5886-00002-3241	9/18/1998	CEMENT KILN, WET PROCESS,	COAL	75 TPH Clinker	40.5 LB/H	0.3 LB/T	ESP	
TX-0282	CAPITOL CEMENT DIVISION	TX	PSD-TX-120M3	9/16/1998	DRY/WET KILN & ALKALI BYPASS BAGHOUSE STACK (KS-1)		378,650 TPY DRY KILN	193.53 LB/H; 847.85 tpy	4.48 lb/ton (dry)	BAGHOUSE	
TX-0282	CAPITOL CEMENT DIVISION	TX	PSD-TX-120M3	9/16/1998	DRY KILN EXHAUST BAGHOUSE (KS-1A)		730,000 TPY Clinker	25.44 LB/H	0.31 lb/ton clinker	BAGHOUSE	
TX-0282	CAPITOL CEMENT DIVISION	TX	PSD-TX-120M3	9/16/1998	ALKALI BYPASS BAGHOUSE STACK (9A)			5.39 LB/H; 23.63 tpy		BAGHOUSE	
TX-0282	CAPITOL CEMENT DIVISION	TX	PSD-TX-120M3	9/16/1998	WET KILN EXHAUST BAGHOUSE (KS-1B)		378,650 TPY Clinker	162.7 LB/H; 712.8 tpy	3.76 lb/ton	BAGHOUSE	
TX-0282	CAPITOL CEMENT DIVISION	TX	PSD-TX-120M3	9/16/1998	ALKALI BYPASS BAGHOUSE STACK (9A)			3.06 LB/H; 13.41 tpy		BAGHOUSE	
TX-0282	CAPITOL CEMENT DIVISION	TX	PSD-TX-120M3	9/16/1998	DRY KILN EXHAUST BAGHOUSE (KS-1A)		730,000 T/YR CLINKER	14.44 LB/H; 63.24 tpy	0.17 lb/ton clinker	BAGHOUSE IS	
MI-0354	HOLNAM, INC.	MI	60-71K	6/23/1998	CEMENT KILNS, WET PROCESS, (2)	COAL	100 T/H	1.3 LB/T	1.3 lb/ton	Baghouse	
IL-0057	ILLINOIS CEMENT COMPANY	IL	97030016	6/12/1998	KILN, CEMENT, PREHEATER-PRECALCINER		3,000 TPD Cement	0.208 LB/T	0.208 lb/ton clinker	FABRIC FILTER	99
TN-0086	SIGNAL MOUNTAIN CEMENT COMPANY,	TN	47-065-3070	5/29/1998	DRY FEED KILN	PETROLEI	160 T/H	18.3 LB/H	0.3 LB/T	BAGHOUSE	
OR-0036	DURKEE FACILITY	OR	01-0029	2/26/1998	KILN			436 LB/D	0.3 lb/ton 6-hr	BAGHOUSE	
OR-0036	DURKEE FACILITY	OR	01-0029	2/26/1998	KILN FEED FOR PREHEATER			0.019 GR/DSCF, 3-hr; 90 lb/day		BAGHOUSE	
FL-0224	FLORIDA ROCK INDUSTRIES, INC.	FL	PSD-FL-228	12/23/1996	KILN	COAL	14 T/H	0.2 LB/T clinker	0.23 LB/T clinker	ESP.	
UT-0059	ASH GROVE CEMENT COMPANY	UT	DAQE-958-96	10/24/1996	KILN	COAL	170 T/H	23.45 LB/H	0.14 LB/T	BAGHOUSE.	
FL-0110	FL CRUSHED STONE	FL	PSD-FL-227	11/17/1995	KILN	COAL	83 T/H	0.02 LB/T feed	0.02 LB/T feed	FABRIC FILTER	
WY-0044	MOUNTAIN CEMENT COMPANY-LARAMIE FACILITY	WY	CT-1137	3/6/1995	KILN, COAL	COAL	45.3 T/H COAL	13.59 LB/H	0.3 LB/TON	ESP	99.9
Particulate Matter (PM₁₀)											
IA-0070	FLORIDA CRUSHED STONE COMPANY	FL	PSD-FL-351/0530021-009-A	Draft--7/7/05	PREHEATER/PRECALCINER KILN	COAL	125.0 TPH CLINKER	25.0 LB/HR	0.20 lb/ton clinker	Baghouse	
SD-0003	LEHIGH CEMENT COMPANY - MASON CITY PLANT	IA	17-01-005	12/11/2003	KILN/CALCINER/PREHEATER	COAL	150 TPH CLINK	0.516 LB/ TON CLINK	0.516 LB/T	ESP.	
MO-0059	GCC DACOTAH - DACOTAH QUARRYS LIMESTONE	SD	28.1101-PSD	4/10/2003	ROTARY KILN #6	COAL	2,250 T/D	0.01 GR/DSCF		FABRIC FILTER	
MO-0059	CONTINENTAL CEMENT COMPANY, LLC	MO	2002-02-038	9/24/2002	ROTARY KILN	COAL	183 T/H	99 %		FABRIC FILTER	
IA-0052	LAFARGE CORPORATION	IA	PROJECT NUMBER 00-057	7/1/2002	PREHEATER/PRECALCINER KILN	COAL	3,488 T/D	0.516 lb/ton clinker	0.516 LB/T	Baghouse	99.9
TX-0355	PORTLAND CEMENT MANUFACTURING PLANT	TX	PSD-TX-145 M1	6/29/2001	GRINDING/ PREHEATING/ KILN, K-19			40 LB/H; 168 TPY		ESP	
CO-0043	RIO GRANDE PORTLAND CEMENT CORP.	CO	98PB0893	9/25/2000	KILN, CLINKER		950,000 T/YR Clinker	0.01 gr/dscf, 0.097 lb/ton	0.097 lb/ton clinker	High-Temp Fabric Filter	99.9
CO-0043	RIO GRANDE PORTLAND CEMENT CORP.	CO	98PB0893	9/25/2000	PREHEATER/PRECALCINER, KILN		950,000 T/YR Clinker	45.9 T/YR	0.097 LB/T, 12-month rolling	High-Temp Filter Baghouse	
MD-0027	LEHIGH PORTLAND CEMENT COMPANY	MD	06-6-0356R	6/8/2000	CEMENT MANUFACTURING, PREHEATER/PRECALCINER	COAL	2,214,000 T/YR	96 T/YR	0.087 LB/T	Enclos., Wet Supp., Paved Rds	60
MD-0027	LEHIGH PORTLAND CEMENT COMPANY	MD	06-6-0356R	6/8/2000	CEMENT MANUFACTURING, PREHEATER/PRECALCINER	COAL	2,214,000 T/YR	620 T/YR	0.56 LB/T	Baghouses	99
FL-0139	SUWANNEE AMERICAN CEMENT COMPANY, INC.	FL	1210465-001-AC	6/1/2000	IN LINE KILN & RAW MILL	Nat. Gas	178 T/H	0.11 LB/T	0.11 LB/T	BAGHOUSE	
CO-0047	HOLNAM, FLORENCE	CO	98-FR-0895	7/29/1999	KILN/PREHEATER/BYPASS & CLINKER COOLER EXHAUST			132.1 T/YR		BAGHOUSE	
IN-0081	LONE STAR INDUSTRIES, INC.	IN	133-10159	4/16/1999	KILN OPERATION	COAL	360 T/H	0.014 GR/DSCF	0.3 lb/ton	ESP	
IN-0081	LONE STAR INDUSTRIES, INC.	IN	133-10159	4/16/1999	ALKALI BYPASS DUST BINS			0.01 GR/DSCF; 0.64 lb/hr		BAGHOUSE	
TX-0279	NORTH TEXAS CEMENT COMPANY	TX	PSD-TX-893	3/4/1999	MAIN KILN/SCRUBBER STACK	COAL	3,100 T/D	123 TPY	0.22 lb/ton clinker	Scrubber and Baghouse	
CO-0048	HOLNAM, LAPORTE CO.	CO	11LR338-1	9/22/1998	CALCINER/ KILN		584,000 T/YR	21.3 LB/H; 74.8 TPY	0.32 lb/ton (hourly); 0.26 lb/ton (annual)	Baghouse	
N-0112	LONE STAR INDUSTRIES, INC.	IN	133-5886-00002-3241	9/18/1998	CEMENT KILN, WET PROCESS,	COAL	75 T/H	37.3 LB/H	0.28 LB/T	ESP	
TX-0282	CAPITOL CEMENT DIVISION	TX	PSD-TX-120M3	9/16/1998	DRY/WET KILN & ALKALI BYPASS BAGHOUSE STACK (KS-1)		378,650 TPY DRY KILN	164.2 LB/H; 719.34 TPY	3.80 lb/ton (dry)	BAGHOUSE	
TX-0282	CAPITOL CEMENT DIVISION	TX	PSD-TX-120M3	9/16/1998	DRY KILN EXHAUST BAGHOUSE (KS-1A)		730,000 T/YR CLINKER	21.37 LB/H	0.26 lb/ton	BAGHOUSE	
TX-0282	CAPITOL CEMENT DIVISION	TX	PSD-TX-120M3	9/16/1998	ALKALI BYPASS BAGHOUSE STACK (9A)			4.53 LB/H; 19.85 TPY		BAGHOUSE	
TX-0282	CAPITOL CEMENT DIVISION	TX	PSD-TX-120M3	9/16/1998	WET KILN EXHAUST BAGHOUSE (KS-1B)		378,650 T/YR CLINKER	138.3 LB/H; 605.9 TPY	3.20 lb/ton	BAGHOUSE IS	
MO-0048	LAFARGE CORPORATION	MO	0897-019	8/20/1997	RAW MILL, PREHEATER/PRECALCINER KILN/EP		1,584,071 TONS	19.22 LB/HR, 24-HR	0.11 lb/ton (24-hr)	BAGHOUSE	
FL-0173	SOUTHDOWN, INC.	FL	PSD-FL-233	6/27/1997	KILN		165 T/H	0.18 LB/T	0.18 LB/T	FABRIC FILTERS.	
FL-0173	SOUTHDOWN, INC.	FL	PSD-FL-233	6/27/1997	KILN		165 T/H, 1-hour max	0.18 LB/T	0.18 LB/T	FABRIC FILTERS.	
FL-0173	SOUTHDOWN, INC.	FL	PSD-FL-233	6/27/1997	KILN		165 T/H, 1-hour max	0.09 LB/T	0.09 LB/T	FABRIC FILTERS.	
FL-0224	FLORIDA ROCK INDUSTRIES, INC.	FL	PSD-FL-228	12/23/1996	KILN, PORTLAND	COAL	14 T/H	0.23 LB/T, clinker	0.20 LB/T, clinker	ESP.	
UT-0059	ASH GROVE CEMENT COMPANY	UT	DAQE-958-96	10/24/1996	KILN	COAL	170 T/H	21.11 LB/H	0.12 LB/T	BAGHOUSE.	
UT-0062	HOLNAM, DEVIL'S SLIDE PLANT	UT	DAQE-522-96	5/13/1996	KILN	COAL		14 LB/H		BAGHOUSE.	
NV-0032	GREAT STAR CEMENT CORP./UNITED ROCK PRODUCT	NV	A139	10/24/1995	CEMENT KILN		1.6 MILLION TONS	23.7 lb/hr; 0.015 gr/dscf; 88 TPY		BAGHOUSE.	99
Unknown (3)	HOLCIM, LEE ISLAND	MO	062004-005	6/8/2004	IN-LINE KILN AND RAW MILL	COAL			0.28 LB/TON CLINKER (3-hr stack test)	BAGHOUSE.	
Unknown (3)	HOLCIM, LEE ISLAND	MO	062004-005	6/8/2004	KILN/CALCINER/PREHEATER	COAL				BAGHOUSE.	
Particulate Matter (PM_{2.5})											
WA-0307	PORTLAND CEMENT CLINKERING PLANT	WA	PSD-90-03	10/5/2001	KILN EXHAUST STACK			0.005 GR/DSCF, 24-HR		BAGHOUSE	

* Based on 8,760 hours per year.

Source: EPA's RACT/BACT/LAER Clearinghouse, 2005.

(1) Source: Department of Environmental Protection, Florida Division of Air Resource Management, March 29, 2005.

(2) Source: Department of Environmental Protection, Florida Division of Air Resource Management, July 7, 2005.

(3) Source: Department of Natural Resources, Missouri Air Conservation Commission, June 8, 2004.

Table 6-4. Summary of Previous PM/PM₁₀ BACT Determinations from Clinker Coolers at Portland Cement Plants

RBLC ID	Facility Name	State	Permit No.	Date Issued	Throughput	Emission Limit (as presented in Clearinghouse)	Emission Limit (converted ^a)	Control Equipment	% Effic.
Particulate Matter (PM)									
UT-0059	ASH GROVE CEMENT COMPANY	UT	DAQE-958-96	10/24/1996		10.69 LB/H; 0.01 gr/dscf		Baghouse	
IA-0070	LEHIGH CEMENT COMPANY - MASON CITY PLANT	IA	17-01-005	12/11/2003	150 TPH Clinker	0.015 GR/DSCF	0.1 LB/T	Baghouse	
MO-0059	CONTINENTAL CEMENT COMPANY, LLC	MO	2002-02-038	9/24/2002	182.60 T/H			Baghouse	
IA-0052	LAFARGE CORPORATION	IA	Proj. No. 00-057	7/1/2002	145.30 TONS OF	0.015 GR/DSCF	0.1 LB/TON	Baghouse	99.9
FL-0139	SUWANNEE AMERICAN CEMENT COMPANY, INC.	FL	1210465-001-AC	6/1/2000	178 T/H	0.07 LB/T DRY PM	0.07 LB/T DRY PM FEED	ESP	
CO-0047	HOLNAM, FLORENCE	CO	98-FR-0895	7/29/1999		60.2 T/YR		Baghouse	
IN-0112	LONE STAR INDUSTRIES, INC.	IN	133-5886-00002-3241	9/18/1998	75 T/H	13.5 LB/H	0.082 LB/T	Baghouse	
OR-0036	DURKEE FACILITY	OR	01-0029	2/26/1998		0.1 GR/DSCF, 3-hr	0.1 LB/T, 6-hr	Baghouse	
FL-0224	FLORIDA ROCK INDUSTRIES, INC.	FL	PSD-FL-228	12/23/1996	14 T/H	0.1 LB/T, dry	0.16 LB/T clinker	ESP	
FL-0110	FL CRUSHED STONE	FL	PSD-FL-227	11/17/1995	83 T/H	0.01 LB/T, clinker	0.01 LB/T clinker	FABRIC FILTER	
WY-0044	MOUNTAIN CEMENT COMPANY-LARAMIE FACILITY	WY	CT-1137	3/6/1995		0.01 GR/ACF; 0.09 lb/hr		Baghouse	99.9
Particulate Matter (PM₁₀)									
IA-0070	LEHIGH CEMENT COMPANY - MASON CITY PLANT	IA	17-01-005	12/11/2003	150 TPH Clinker	0.015 GR/DSCF	0.092 LB/T	Baghouse	
SD-0003	GCC DACOTAH - DACOTAH QUARRYS LIMESTONE	SD	28.1101-PSD	4/10/2003	2,250 T/D	0.01 GR/DSCF	0.091 lb/ton	FABRIC FILTER	
IA-0052	LAFARGE CORPORATION	IA	Proj. # 00-057	7/1/2002	1,028,599 TPY	0.015 GR/DSCF		Baghouse	99.9
FL-0139	SUWANNEE AMERICAN CEMENT COMPANY, INC.	FL	1210465-001-AC	6/1/2000	178 T/H	0.06 LB/T DRY PH	0.06 LB/T DRY PH FEED	ESP	
CO-0047	HOLNAM, FLORENCE	CO	98-FR-0895	7/29/1999		60.2 T/YR		Baghouse	
IN-0081	LONE STAR INDUSTRIES, INC.	IN	133-10159	4/16/1999	183 T/H CLINKER	0.015 GR/DSCF	0.02 lb/ton	BAGHOUSE	
CO-0048	HOLNAM, LAPORTE CO.	CO	11LR338-1	9/22/1998	584,000 T/YR CLINKER	37.7 T/YR	0.13 LB/T	Baghouse	99.9
IN-0112	LONE STAR INDUSTRIES, INC.	IN	133-5886-00002-3241	9/18/1998	75 T/H	12.4 LB/H	0.075 LB/T	BAGHOUSE	
TX-0282	CAPITOL CEMENT DIVISION	TX	PSD-TX-120M3	9/16/1998		12.25 LB/H; 53.66 TPY		Baghouse	
MO-0048	LAFARGE CORPORATION	MO	0897-019	8/20/1997	1,028,599 TONS	11.74 LB/HR, 24 HR	0.10 lb/ton	BAGHOUSE	99.9
FL-0224	FLORIDA ROCK INDUSTRIES, INC.	FL	PSD-FL-228	12/23/1996	14 T/H	0.13 LB/T, clinker	0.13 LB/T, clinker	ESP	
UT-0059	ASH GROVE CEMENT COMPANY	UT	DAQE-958-96	10/24/1996		9.63 LB/H; 0.009 gr/scf		Baghouse	
NV-0032	GREAT STAR CEMENT CORP./UNITED ROCK PRODUCTS CORP.	NV	A139	10/24/1995		21 LB/HR & .015 GR/DSCF		Baghouse	99
							LB/TON CLINKER (3-HR STACK		
Unknown (1)	HOLCIM, LEE ISLAND	MO	062004-005	6/8/2004			0.07 TEST)	Baghouse	

^a Based on 8,760 hours per year.

Source: EPA's RACT/BACT/LAER Clearinghouse, 2005.

(1) Source: Department of Natural Resources, Missouri Air Conservation Commission, June 8, 2004.

Table 6-6. Summary of Previous PM/PM₁₀ BACT Determinations from Finish Mills at Portland Cement Plants

RBLC ID	Facility Name	State	Permit No.	Date Issued	Process Type	Throughput	Control Equipmen	Emission Limit 1	Emission Limit 2	% Effic.
Particulate Matter (PM)										
MO-0059	CONTINENTAL CEMENT COMPANY, LLC	MO	2002-02-038	9/24/2002	FINISH MILL, CLINKER GRINDING, ELEVATOR	114.2 T/H	BAGHOUSE			
CO-0047	HOLNAM, FLORENCE	CO	98-FR-0895	7/29/1999	FINISH MILL SYSTEM		BAGHOUSE	70.78 T/YR		
TX-0279	NORTH TEXAS CEMENT COMPANY	TX	PSD-TX-893	3/4/1999	FINISH MILL SYSTEM VENT		BAGHOUSE	9.83 LB/H; 43.1 TPY		
OR-0036	DURKEE FACILITY	OR	01-0029	2/26/1998	FINISH GRINDING MILL FEED BELT		BAGHOUSE	0.1 gr/dscf, 3-hr		
OR-0036	DURKEE FACILITY	OR	01-0029	2/26/1998	FINISH MILL #2		BAGHOUSE	0.017 gr/dscf, 3-hr	69 LB/D	
WY-0044	MOUNTAIN CEMENT COMPANY-LARAMIE FACILITY	WY	CT-1137	3/6/1995	FINISH MILL C" EXISTING GRINDING MILL USED IN		BAGHOUSE	0.01 GR/ACF	1.89 LB/H	99.9
Particulate Matter (PM₁₀)										
SD-0003	GCC DACOTAH - DACOTAH QUARRYS LIMESTONE	SD	28.1101-PSD	4/10/2003	FINISH MILL NO. 3	35 T/H	FABRIC FILTER	0.01 GR/DSCF		
SD-0003	GCC DACOTAH - DACOTAH QUARRYS LIMESTONE	SD	28.1101-PSD	4/10/2003	FINISH MILL NO. 4	40 T/H	FABRIC FILTER	0.01 GR/DSCF		
SD-0003	GCC DACOTAH - DACOTAH QUARRYS LIMESTONE	SD	28.1101-PSD	4/10/2003	FINISH MILL NO. 5	45 T/H	FABRIC FILTER	0.01 GR/DSCF		
SD-0003	GCC DACOTAH - DACOTAH QUARRYS LIMESTONE	SD	28.1101-PSD	4/10/2003	FINISH MILL NO. 6	45 T/H	FABRIC FILTER	0.01 GR/DSCF		
SD-0003	GCC DACOTAH - DACOTAH QUARRYS LIMESTONE	SD	28.1101-PSD	4/10/2003	FINISH MILL NO. 7 (MILL SWEEP)	85 T/H	FABRIC FILTER	0.01 GR/DSCF		
SD-0003	GCC DACOTAH - DACOTAH QUARRYS LIMESTONE	SD	28.1101-PSD	4/10/2003	FINISH MILL NO. 7 (MILL SEPARATOR)	85 T/H	FABRIC FILTER	0.01 GR/DSCF		
SD-0003	GCC DACOTAH - DACOTAH QUARRYS LIMESTONE	SD	28.1101-PSD	4/10/2003	FINISH MILL NO. 7 (TRANSFER)	500 T/H	FABRIC FILTER	0.01 GR/DSCF		
SD-0003	GCC DACOTAH - DACOTAH QUARRYS LIMESTONE	SD	28.1101-PSD	4/10/2003	FINISH MILL #7 (TRANSFER #2)	500 T/H	FABRIC FILTER	0.01 GR/DSCF		
TX-0355	PORTLAND CEMENT MANUFACTURING PLANT	TX	PSD-TX-145 M1	6/29/2001	FM NO. 1 SEPARATOR, N-13		BAGHOUSE	1.26 LB/H	5.29 T/YR	
TX-0355	PORTLAND CEMENT MANUFACTURING PLANT	TX	PSD-TX-145 M1	6/29/2001	FM NO. 1 AIRSLIDES, N-22		BAGHOUSE	0.36 LB/H	1.51 T/YR	
TX-0355	PORTLAND CEMENT MANUFACTURING PLANT	TX	PSD-TX-145 M1	6/29/2001	FM NO. 2 SEPARATOR, N-63		BAGHOUSE	1.26 LB/H	5.29 T/YR	
TX-0355	PORTLAND CEMENT MANUFACTURING PLANT	TX	PSD-TX-145 M1	6/29/2001	FM NO. 2 AIRSLIDES, N-69		BAGHOUSE	0.36 LB/H	1.51 T/YR	
CO-0047	HOLNAM, FLORENCE	CO	98-FR-0895	7/29/1999	FINISH MILL SYSTEM		BAGHOUSE	70.78 T/YR		
IN-0081	LONE STAR INDUSTRIES, INC.	IN	133-10159	4/16/1999	FINISH MILL, NO. 3	95 T/H	FABRIC FILTER	0.01 GR/DSCF	1.97 LB/H	
IN-0081	LONE STAR INDUSTRIES, INC.	IN	133-10159	4/16/1999	FINISH MILL TRANSFER EQUIPMENT	235 TPH	BAGHOUSE	0.015 gr/dscf	0.01 GR/DSCF	
IN-0081	LONE STAR INDUSTRIES, INC.	IN	133-10159	4/16/1999	FINISH MILL TRANSFER NO. 3		FABRIC FILTER	0.015 GR/DSCF	0.01 GR/DSCF	
TX-0279	NORTH TEXAS CEMENT COMPANY	TX	PSD-TX-893	3/4/1999	FINISH MILL SYSTEM VENT		BAGHOUSE	9.83 LB/H	43.1 T/YR	
MO-0048	LAFARGE CORPORATION	MO	0897-019	8/20/1997	FINISH MILL, HOPPER, CEMENT AIR SEPARATION	1401600 TONS	BAGHOUSE	3.46 LB/HR		
Unknown (1)	HOLCIM, LEE ISLAND	MO	062004-005	6/8/2004	FINISH MILL AND PRODUCT LOADOUT		BAGHOUSE			

Source: EPA's RACT/BACT/LAER Clearinghouse, 2005.

(1) Source: Department of Natural Resources, Missouri Air Conservation Commission, June 8, 2004.

Table 6-9. Summary of Previous SO₂ BACT Determinations from Cement Kilns, Preheaters, and Calciners at Portland Cement Plants

RBLC ID	Facility Name	State	Permit No.	Date Issued	Process Type	Fuel Used	Throughput	Emission Limit (as presented in Clearinghouse)	Emission Limit (converted ^a)	Control Equipment Description	% Effic.
Unknown (1)	FLORIDA ROCK INDUSTRIES, INC.	FL	PSD-FL-350/0010087-013-AC	July 2005	PREHEATER/PRECALCINER KILN	COAL	125 TPH CLINKER	28.8 LB/HR	0.23 lb/ton clinker	Inherently limited by process.	
Unknown (2)	RINKER FLORIDA CRUSHED STONE COMPANY	FL	PSD-FL-351/0530021-009-AC	7/7/2005	PREHEATER/PRECALCINER KILN	COAL	125 TPH CLINKER	28.8 LB/HR	0.23 lb/ton clinker	Inherently limited by process.	
IA-0070	LEHIGH CEMENT COMPANY - MASON CITY PLANT	IA	17-01-005	12/11/2003	KILN/CALCINER/PREHEATER	COAL	150 TPH CLINK	1.01 LB/ TON CLINK	1.01 LB/ TON CLINK	WET SCRUBBER.	
SD-0003	GCC DACOTAH - DACOTAH QUARRYS LIMESTONE	SD	28.1101-PSD	4/10/2003	ROTARY KILN #6	COAL	2,250 T/D	632 LB/H	6.74 lb/ton	Inherent scrubbing effect of processing limestone	
AL-0200	CEMEX, INC.	AL	105-0002-Z004	9/13/2002	CEMENT KILN	COAL	230 T/H	160 LB/H	0.821 LB/T		90
IA-0052	LAFARGE CORPORATION	IA	PN 00-057	7/1/2002	PREHEATER/PRECALCINER KILN	COAL	3,488 T/D	500 LB/D; 4,850 TPY	0.143 lb/ton (daily)	Dry Scrubber Equivalent. Lime is generated from limestone in feed and comes into contact with SO ₂ and some SO ₂ captured in waste kiln dust. During kiln preheating period, shutdown and during maintenance of baghouse, only nat. gas will be burned and sulfur rings shall be removed if the ring was the cause of the shutdown.	75
WA-0307	PORTLAND CEMENT CLINKERING PLANT	WA	PSD-90-03	10/5/2001	KILN EXHAUST STACK			180 ppm @ 10% O ₂ , 1-hr		NONE INDICATED.	
TX-0355	PORTLAND CEMENT MANUFACTURING PLANT	TX	PSD-TX-145 M1	6/29/2001	GRINDING/ PREHEATING/ KILN, K-19			20 LB/H; 84 TPY		Raw materials quarry will be managed for optimum sulfur contents. SO ₂ will be absorbed in a 5-stage precalciner/preheater Kiln.	85
CO-0043	RIO GRANDE PORTLAND CEMENT CORP.	CO	98PB0893	9/25/2000	PREHEATER/PRECALCINER, KILN		950,000 T/YR Clinker	1.99 LB/T, 12-month rolling	1.99 LB/T	Options include the installation of a 5-stage preheater/precalciner pyroprocessing plant and use of raw material with sulfur < 0.03%.	
MD-0027	LEHIGH PORTLAND CEMENT COMPANY	MD	06-6-0356R	6/8/2000	PREHEATER/PRECALCINER	COAL	2,214,000 T/YR	1041 T/YR	0.94 lb/ton	Low sulfur materials and process control	95
FL-0139	SUWANNEE AMERICAN CEMENT COMPANY, INC.	FL	1210465-001-AC	6/1/2000	IN LINE KILN & RAW MILL	Nat. Gas	178 T/H	0.27 LB/T CLINKER	0.27 LB/T CLINKER	SULFUR IN FUEL LIMIT HAS BEEN DROPPED IN SCRUBBER	85
MI-0287	HOLNAM, INC.	MI	60-71L	3/20/2000	CEMENT KILNS, WET PROCESS (2)	COAL	100 T/H Feed	21.7 LB/T	21.7 LB/T	BAGHOUSE	
KS-0022	MONARCH CEMENT COMPANY	KS	10069	1/27/2000	2 PRECALCINERS (EACH)	Nat. Gas	107.6 TPH	421 LB/H; 622.3 TPY	3.91 lb/ton (hourly); 1.32 lb/ton (annual)		99
CO-0047	HOLNAM, FLORENCE	CO	98-FR-0895	7/29/1999	KILN/PREHEATER/BYPASS & CLINKER COOLER			623.23 T/YR		WET LIME SCRUBBER	
IN-0081	LONE STAR INDUSTRIES, INC.	IN	133-10159	4/16/1999	KILN OPERATION	COAL	360 T/H	3317 T/YR	2.10 lb/ton		
TX-0279	NORTH TEXAS CEMENT COMPANY	TX	PSD-TX-893	3/4/1999	MAIN KILN/SCRUBBER STACK	COAL	3,100 T/D	2840 LB/H; 1,577 TPY	21.99 lb/ton (hourly); 2.79 lb/ton (annual)	SCRUBBER AND BAGHOUSE	
N-0112	LONE STAR INDUSTRIES, INC.	IN	133-5886-00002-3241	9/18/1998	CEMENT KILN, WET PROCESS.	COAL	75 T/H	543 LB/H	4.03 LB/T feed	SULFUR CONTENT OF COAL SHALL NOT EXCEED 3 PERCENT	
TX-0282	CAPITOL CEMENT DIVISION	TX	PSD-TX-120M3	9/16/1998	DRY/WET KILN & ALKALI BYPASS		378,650 TPY Dry Kiln/730,000 tpy	2400 LB/H; 10,512 tpy	55.52 lb/ton (dry); 28.8 lb/ton	DRY SCRUBBER.	
TX-0282	CAPITOL CEMENT DIVISION	TX	PSD-TX-120M3	9/16/1998	DRY KILN EXHAUST BAGHOUSE (KS-1A)		730,000 T/YR Clinker	840 LB/H; 3,679.2 TPY	10.08 lb/ton	DRY SCRUBBER ACHIEVEING AT LEAST 30% REDUCTION.	
TX-0282	CAPITOL CEMENT DIVISION	TX	PSD-TX-120M3	9/16/1998	ALKALI BYPASS BAGHOUSE STACK (9A)			360 LB/H; 1,576.8 TPY	27.76 lb/ton	NONE	
TX-0282	CAPITOL CEMENT DIVISION	TX	PSD-TX-120M3	9/16/1998	WET KILN EXHAUST BAGHOUSE (KS-1B)		378,650 T/YR Clinker	1200 LB/H; 5,256 TPY	21.7 LB/T clinker	NONE	
MI-0354	HOLNAM, INC	MI	60-71K	6/23/1998	CEMENT KILNS, WET PROCESS, (2)	COAL	100 T/H	11940 T/YR	21.7 LB/T	SULFUR IN FUEL LIMITED TO 2.5% MAX, 2.17% combined	
IL-0057	ILLINOIS CEMENT COMPANY	IL	97030016	6/12/1998	KILN, CEMENT, PREHEATER-PRECALCINER		3,000 TPD Cement	0.8 LB/T	0.8 LB/T	INHERENT ABSORPTION OF SO ₂ IN PRODUCT	
OR-0036	DURKEE FACILITY	OR	01-0029	2/26/1998	KILN			10 PPMV; 150 lb/day		LOW SULFUR FUEL	3-H AV
FL-0224	FLORIDA ROCK INDUSTRIES, INC.	FL	PSD-FL-228	12/23/1996	KILN, PORTLAND	COAL	14 T/H	0.16 LB/T	0.16 LB/T	FUEL S LIMITS AND PROCESS DESIGN	CLINKER
UT-0059	ASH GROVE CEMENT COMPANY	UT	DAQE-958-96	10/24/1996	KILN	COAL	170 T/H	1 LB/MMBTU		LOW SULFER FUEL	
UT-0062	HOLNAM, DEVIL'S SLIDE PLANT	UT	DAQE-522-96	5/13/1996	KILN	COAL		110 LB/H		LOW SULFUR	
FL-0110	FL CRUSHED STONE	FL	PSD-FL-227	11/17/1995	KILN	COAL	83 T/H	0.27 LB/T	0.27 LB/T	PROCESS REMOVES ACID	CLINKER
NV-0032	GREAT STAR CEMENT CORP./UNITED ROCK PRODUCTS CORP.	NV	A139	10/24/1995	CEMENT KILN/CLINKER COOLER			208 TPY	0.416 LB/TON CLINKER	FUEL SPEC: LIMIT FUEL TO COAL WITH 1% SULFUR (COAL SULFUR ANALYSIS)	90
WY-0044	MOUNTAIN CEMENT COMPANY-LARAMIE FACILITY	WY	CT-1137	3/6/1995	KILN, COAL	COAL	45.3 T/H COAL	406 LB/H (3 Hr)		LOW SULFUR COAL AND ABSORPTION OF SO ₂ BY THE	
MO-0059	CONTINENTAL CEMENT COMPANY, LLC	MO	2002-02-038	9/24/2002	ROTARY KILN	COAL	183 T/H	12 LB/T Clinker, 3-hr rolling; 10 lb/ton 24-hr	12 LB/T Clinker, 3-hr rolling; 10 lb/ton 24-hr	WET SCRUBBER	
TN-0086	SIGNAL MOUNTAIN CEMENT COMPANY,	TN	47-065-3070	5/29/1998	DRY FEED KILN	Pet. Coke	160 T/H	500 PPM; 89.3 lb/hr		GOOD COMBUSTION	
MO-0048	LAFARGE CORPORATION	MO	0897-019	8/20/1997	RAW MILL, PREHEATER/PRECALCINER KILN		1,584,071 TONS	477.3 LB/HR, 3 HR AVG	2.64 lb/ton (3-hr) LB/TON CLINKER (30-day rolling ave.)	INHERENT DRY SCRUBBING AND LIME SRAY WHEN RAW MILL NOT OPERATING, SELECTIVE QUARRYING OF MATERIALS	
Unknown (3)	HOLCIM, LEE ISLAND	MO	062004-005	6/8/2004	KILN/CALCINER/PREHEATER	COAL		694 LB/HR			

^a Based on 8,760 hours per year.

Source: EPA's RACT/BACT/LAER Clearinghouse, 2005.

(1) Source: Department of Environmental Protection, Florida Division of Air Resource Management, March 29, 2005.

(2) Source: Department of Environmental Protection, Florida Division of Air Resource Management, July 7, 2005.

(3) Source: Department of Natural Resources, Missouri Air Conservation Commission, June 8, 2004.

Table 6-12. Summary of Previous NO_x BACT Determinations from Cement Kilns and Preheaters/Precalciners/Calciners at Portland Cement Plants

RBLC ID	Facility Name	State	Permit No.	Date Issued	Process Type	Fuel Used	Throughput	Emission Limit		% Effic.	Control Equipment Description
								(as presented on Clearinghouse)	(as calculated) ^a		
Unknown (1)	FLORIDA ROCK INDUSTRIES, INC.	FL	PSD-FL-350/0010087-013-AC	July 2005	PREHEATER/PRECALCINER KILN	COAL	125.00 TPH CLINKER	243.8 LB/HR	1.95 lb/ton clinker		Multi-staged Combustion and/or SNCR
Unknown (2)	RINKER FLORIDA CRUSHED STONE COMPANY	FL	PSD-FL-351/0530021-009-AC	7/7/2005	PREHEATER/PRECALCINER KILN	COAL	125.00 TPH CLINKER	243.8 LB/HR	1.95 lb/ton clinker		Multi-staged Combustion and/or SNCR
MS-0071	HOLCIM (US), INC.	MS	1630-00025	8/20/2004		COAL	650,000 TPY Clinker	10 LB/T	10 LB/T	5	GOOD COMBUSTION PRACTICE
IA-0070	LEHIGH CEMENT COMPANY - MASON CITY PLANT	IA	17-01-005	12/11/2003	KILN/CALCINER/PREHEATER	COAL	150 TPH CLINK	2.85 LB/TON CLINK	2.85 LB/T		SNCR, Low-NO _x Burners, Comb. Control, and Proper Kiln Design
SD-0003	GCC DACOTAH - DACOTAH QUARRYS LIMESTONE	SD	28.1101-PSD	4/10/2003	ROTARY KILN #6	COAL	2,250 T/D	2267 T/YR	5.52 lb/ton		PREHEATER/PRECALCINATOR SYSTEM
AL-0203	HOLCIM (US), INC.	AL	503-8026-X021	2/4/2003	Kiln System (Calcining Kiln, Preheater, w/Precalciner)	COAL	390 T/H	2998 T/YR	1.76 lb/ton		
MO-0059	CONTINENTAL CEMENT COMPANY, LLC	MO	2002-02-038	9/24/2002	ROTARY KILN	COAL	183 T/H	8 lb/t clinker, 30-day rolling	8 lb/t clinker, 30-day rolling		SNCR, LOW NOX BURNERS TOP AIR DUCT
IA-0052	LAFARGE CORPORATION	IA	PROJECT No. 00-057	7/1/2002	PREHEATER/PRECALCINER KILN	COAL	3,488 T/D	2546 T/YR	4 LB/TON CLINKER		GOOD COMBUSTION PRACTICES
WA-0307	PORTLAND CEMENT CLINKERING PLANT	WA	PSD-90-03	10/5/2001	KILN EXHAUST STACK			650 ppm @ 10% O ₂ , 24-hr			NONE INDICATED.
TX-0355	PORTLAND CEMENT MANUFACTURING PLANT	TX	PSD-TX-145 M1	6/29/2001	GRINDING/ PREHEATING/ KILN, K-19			660 LB/H			NONE INDICATED.
CO-0043	RIO GRANDE PORTLAND CEMENT CORP.	CO	98PB0893	9/25/2000	PREHEATER/PRECALCINER, KILN		950,000 T/YR Clinker	2.32 LB/T	2.32 LB/T		MULTI-STAGE COMBUSTION AND RECIRCULATION.
MD-0027	LEHIGH PORTLAND CEMENT COMPANY	MD	06-6-0356R	6/8/2000	PREHEATER/PRECALCINER	COAL	2,214,000 T/YR	4871 T/YR	4.40 lb/ton		5-Stage Preheater/Precalciner Pyroprocessing Plant
FL-0139	SUWANNEE AMERICAN CEMENT COMPANY, INC.	FL	1210465-001-AC	6/1/2000	IN LINE KILN & RAW MILL	Nat. Gas	178 T/H	2.9 LB/T CLINKER	2.9 LB/T CLINKER		Multi-Stage Combustion w/Sep. Line Calciner Comb. Chamber
MI-0287	HOLNAM, INC.	MI	60-71L	3/20/2000	CEMENT KILNS, WET PROCESS (2)		100 T/H FEED	6 LB/T	6 LB/T	30	30% REMOVAL IN SLURRY-SCRUBBER, RTOS.
KS-0022	MONARCH CEMENT COMPANY	KS	10069	1/27/2000	2 PRECALCINERS (EACH)	Nat. Gas	107.6 TPH	200 T/MO	5.09 lb/ton	99	NATURAL GAS
CO-0047	HOLNAM, FLORENCE	CO	98-FR-0895	7/29/1999	Kiln/Preheater/Bypass & Clinker Cooler Exhaust			2922.71 T/YR			LOW NOX COMBUSTION SYSTEM
IN-0081	LONE STAR INDUSTRIES, INC.	IN	133-10159	4/16/1999	KILN OPERATION	COAL	360 T/H	4428 T/YR	2.81 lb/ton		LOW NOX CALCINER, GOOD COMBUSTION PRACTICES
TX-0279	NORTH TEXAS CEMENT COMPANY	TX	PSD-TX-893	3/4/1999	MAIN KILN/SCRUBBER STACK	COAL	3,100 T/D	1085 LB/H	8.4 lb/ton (short-term); 2.8 lb/ton (annual)		LOW-NOX CALCINER AND LOW-NOX IN-LINE CALCINER
CO-0048	HOLNAM, LAPORTE CO.	CO	11LR338-1	9/22/1998	CALCINER/ KILN		584,000 T/YR	900 LB/H	13.5 lb/ton (short-term); 8.6 lb/ton (annual)		Design of Burner/Kiln to Control Alkali from Limestone
N-0112	LONE STAR INDUSTRIES, INC.	IN	133-5886-00002-3241	9/18/1998	CEMENT KILN, WET PROCESS,	COAL	75 T/H	471 LB/H	6.28 lb/ton		LOW NOX BURNERS AND GOOD COMBUSTION
TX-0282	CAPITOL CEMENT DIVISION	TX	PSD-TX-120M3	9/16/1998	Dry/Wet Kiln & Alkali Bypass Baghouse Stack		378,650 TPY DRY KILN/730,000 tpy	950 LB/H	21.98 lb/ton dry; 11.4 lb/ton wet		
TX-0282	CAPITOL CEMENT DIVISION	TX	PSD-TX-120M3	9/16/1998	DRY KILN EXHAUST BAGHOUSE (KS-1A)		730,000 T/YR Clinker	450 LB/H	5.40 lb/ton wet		NONE
TX-0282	CAPITOL CEMENT DIVISION	TX	PSD-TX-120M3	9/16/1998	WET KILN EXHAUST BAGHOUSE (KS-1B)		378,650 T/YR Clinker	450 LB/H	10.41 lb/ton dry		NONE
MI-0354	HOLNAM, INC	MI	60-71K	6/23/1998	CEMENT KILNS, WET PROCESS, (2)	COAL	100 T/H	3377 T/YR	6 LB/T clinker		
IL-0057	ILLINOIS CEMENT COMPANY	IL	97030016	6/12/1998	KILN, CEMENT, PREHEATER-PRECALCINER		3,000 TON/D CEMENT	4.5 LB/T CLINKER	4.5 LB/T CLINKER		CONVERSION TO PRECALCINER KILN
TN-0086	SIGNAL MOUNTAIN CEMENT COMPANY,	TN	47-065-3070	5/29/1998	DRY FEED KILN	Pet. Coke	160 T/H	1500 PPM	2.52 lb/ton		GOOD COMBUSTION
MO-0048	LAFARGE CORPORATION	MO	0897-019	8/20/1997	RAW MILL, PREHEATER/PRECALCINER KILN		1,584,071 TONS	1894.8 TON/YR	2.39 lb/ton		GOOD COMBUSTION practices
FL-0173	SOUTHDOWN, INC.	FL	PSD-FL-233	6/27/1997	KILN	Mixed	165 T/H, 1-Hr Max	1.8 LB/T	1.8 LB/T		GCP and Burner Design w/ Primary Comb. Air Control
FL-0173	SOUTHDOWN, INC.	FL	PSD-FL-233	6/27/1997	KILN		165 T/H, 1-Hr Max	1.72 LB/T	1.72 LB/T		GCP and Burner Design w/ Primary Comb. Air Control
FL-0224	FLORIDA ROCK INDUSTRIES, INC.	FL	PSD-FL-228	12/23/1996	KILN, PORTLAND	COAL	14 T/H	2.45 LB/T	2.45 LB/T		Process Control and Secondary Combustion of Fuel
UT-0059	ASH GROVE CEMENT COMPANY	UT	DAQE-958-96	10/24/1996	KILN	COAL	170 T/H	400 LB/H	2.35 lb/ton		LOW NOX BURNER.
UT-0062	HOLNAM, DEVIL'S SLIDE PLANT	UT	DAQE-522-96	5/13/1996	KILN	COAL		251 LB/H			LOW NOX BURNER
FL-0110	FL CRUSHED STONE	FL	PSD-FL-227	11/17/1995	KILN	COAL	83 T/H	2.8 LB/T	2.8 LB/T		COMBUSTION PRACTICES
NV-0032	GREAT STAR CEMENT CORP./UNITED ROCK PROD. CORP	NV	A139	10/24/1995	CEMENT KILN/CLINKER COOLER			3.1 LB/TON CLINKER	3.1 LB/TON CLINKER	50	SNCR UREA INJECTION SYSTEM AT PREHEATER
WY-0044	MOUNTAIN CEMENT COMPANY-LARAMIE FACILITY	WY	CT-1137	3/6/1995	KILN, COAL	COAL	45 T/H COAL	208.8 LB/H (30-DAY)		20	COMBUSTION UNIT DESIGN (WELL DESIGNED GOOD COMBUSTION PRACTICES AND MULTI-STAGED COMBUSTION)
Unknown (3)	HOLCIM, LEE ISLAND	MO	062004-005	6/8/2004	KILN/CALCINER/PREHEATER	COAL		1543 LB/HR (30-day rolling ave.)	2.8 LB/TON CLINKER LB/TON CLINKER (30-DAY		
Unknown (4)	HOLNAM, HOLLY HILL	SC		5/29/2003	KILN SYSTEM	COAL	2,462,318 ton clink /yr	4.33 LB/TON CLINKER	4.48 ROLLING AVE.); higher limit during	30	LNB, MSC
MS-0071	HOLCIM (US), INC., ARTESIA	MO	1630-00025	8/20/2004	PORTLAND CEMENT MANUFACTURING	COAL	6,500,000 TON CLINKER/YR TON CLINKER/YR; MAX:	10 lb/ton	10 LB/TON	5	GOOD COMBUSTION PRACTICE
Unknown (5),(6)	DRAKE CEMENT	AZ	DRAFT				660,000 83.33 TPH CLINKER	95 lb/hr (24-hr ave);	1.95 lb/ton (30-day rolling ave.)		SNCR

^a Based on 8,760 hours per year.

Source: EPA's RACT/BACT/LAER Clearinghouse, 2005.

(1) Source: Department of Environmental Protection, Florida Division of Air Resource Management, March 29, 2005.

(2) Source: Department of Environmental Protection, Florida Division of Air Resource Management, July 7, 2005.

(3) Source: Department of Natural Resources, Missouri Air Conservation Commission, June 8, 2004.

(4) Source: Department of Health and Environmental Control, Bureau of Air Quality, South Carolina, May, 29, 2004.

(5) Source: Vaidyanatha, Balaji, Arizona Department of Environmental Quality. Email Correspondence, September 23, 2005.

(6) Draft limits.

Table 6-13. Summary of Recent BACT Determinations for CO Emissions from Cement Kilns, Calciners, and Preheaters at Portland Cement Plants

RBLC ID	Facility Name	State	Permit No.	Date Issued	Process Type	Fuel Used	Throughput	Emission Limit (as presented in Clearinghouse)	Emission Limit (converted *)	% Effic. Control Equipment Description
PA-0236	Essroc Cement, Nazareth Plant I	PA	48-309-118	2/11/2003	KILN SYSTEM			5187 LB/HR (1 HR AVE.)	1363 LB/HR (12-mo. Ave)	
Unknown (1)	Holcim (US), Inc, Trident Plant	MT	draft		KILN SYSTEM	COAL	425,000 ton clink /yr		1.46 LB/TON CLINKER	GOOD COMBUSTION PRACTICES
Unknown (2)	Buzzi Unicem, USA, Selma Plant-River Cement Co.	MO	DRAFT	12/1/2004	KILN SYSTEM	COAL	2,220,000 ton clink /yr	691 LB/HR-30 day roll	2.73 LB/TON CLINKER	GOOD COMBUSTION PRACTICES
Unknown (3)	Holnam, Holly Hill	SC	TV-1860-0005	4/15/2003	KILN SYSTEM	COAL	2462318 ton clink /yr		8 LB/TON CLINKER -30 day roll	GOOD COMBUSTION PRACTICES
Unknown (4)	Giant Cement, Portland Cement plant	SC	0900-0002-DO	5/29/2003	KILN SYSTEM	COAL		1049 LB/HR	6.8 LB/TON CLINKER -30 day roll	GOOD COMBUSTION PRACTICES
Unknown (5)	Holcim (US), Inc., Lee Island Project	MO	062004-005	6/8/2004	KILN/CALCINER/PREHEATER	COAL		6 LB/TON CLINKER -30 day roll	3307 LB/HR - 30 day roll	GOOD COMBUSTION PRACTICES AND MULTI-STAGED COMBUSTION
Unknown (6)	DRAKE CEMENT	AZ	DRAFT				TON CLINKER/YR; MAX: 660,000 83.33 TPH CLINKER		3.6 lb/ton (3 hr ave.)	Good Combustion Practices
Unknown (7)	RINKER FLORIDA CRUSHED STONE COMPANY	FL	PSD-FL-351/0530021-009-AC	7/7/2005	PREHEATER/PRECALCINER KILN	COAL	125.00 TPH CLINKER	450 LB/HR	3.60 lb/ton clinker	Combustion Control
Unknown (8)	FLORIDA ROCK INDUSTRIES, INC.	FL	PSD-FL-350/0010087-013-AC	July 2005	PREHEATER/PRECALCINER KILN	COAL	125.00 TPH CLINKER	450 LB/HR	3.60 lb/ton clinker	Combustion Control
WV-0022	CAPITOL CEMENT DIVISION--MARTINSBURG PLANT	WV	R14-0026	6/2/2005	PREHEATER/PRECALCINER KILN	COAL	5,900 TPD	39 LB/HR	4.0 lb/ton clinker	GOOD COMBUSTION PRACTICES
IA-0070	LEHIGH CEMENT COMPANY - MASON CITY PLANT	IA	17-01-005	12/11/2003	KILN/CALCINER/PREHEATER	COAL	150 TPH Clinker	3.7 LB/T	3.7 LB/T	PROPER KILN DESIGN AND OPERATION
SD-0003	GCC DACOTAH - DACOTAH QUARRYS LIMESTONE	SD	28.1101-PSD	4/10/2003	ROTARY KILN #6	COAL	2,250 T/D	3,250 LB/H; 2,002 TPY	34.67 lb/ton (hourly); 4.88 lb/ton (annual)	GOOD COMBUSTION PRACTICES
MO-0059	CONTINENTAL CEMENT COMPANY, LLC	MO	2002-02-038	9/24/2002	ROTARY KILN	COAL	183 T/H	12 lb/ton clinker (1-hr); 10 lb/ton (8-hr)	12 lb/ton clinker (1-hr); 10 lb/ton (8-hr)	PYROCLON
AL-0200	CEMEX, INC.	AL	105-0002-Z004	9/13/2002	CEMENT KILN	COAL	230 T/H	725 LB/H	3.72 LB/T	
IA-0052	LAFARGE CORPORATION	IA	PROJECT NUMBER 00-057	7/1/2002	PREHEATER/PRECALCINER KILN	COAL	3,488 T/D	4.5 lb/ton clinker	4.5 lb/ton clinker	GOOD COMBUSTION PRACTICES
WA-0307	PORTLAND CEMENT CLINKERING PLANT	WA	PSD-90-03	10/5/2001	KILN EXHAUST STACK			1045 PPM @ 10%O2; 538 lb/hr (8-hr)		NONE INDICATED.
TX-0355	PORTLAND CEMENT MANUFACTURING PLANT	TX	PSD-TX-145 M1	6/29/2001	GRINDING/ PREHEATING/ KILN, K-19			460 LB/H; 1,932 TPY		GCPs AND GOOD COMBUSTION UNIT DESIGN
CO-0043	RIO GRANDE PORTLAND CEMENT CORP.	CO	98PB0893	9/25/2000	PREHEATER/PRECALCINER, KILN		950,000 T/YR CEMENT CLINKER	2.11 LB/T	2.11 lb/ton (12-month rolling avg.)	90 MULTI-STAGE COMBUSTION AND GCP
MD-0027	LEHIGH PORTLAND CEMENT COMPANY	MD	06-6-0356R	6/8/2000	PREHEATER/PRECALCINER	COAL	2,214,000 T/YR	3328 T/YR	3.01 lb/ton (12-month rolling avg.)	Process Modification and Operational Monitoring
FL-0139	SUWANNEE AMERICAN CEMENT COMPANY, INC.	FL	1210465-001-AC	6/1/2000	IN LINE KILN & RAW MILL	NAT. GAS	178 T/H	3.6 LB/T CLINKER	3.6 LB/T CLINKER	COMBUSTION CONTROL
MI-0287	HOLNAM, INC.	MI	60-71L	3/20/2000	CEMENT KILNS, WET PROCESS (2)	COAL	100 T/H FEED			FABRIC FILTER, SLURRY SCRUBBER, RTO.
KS-0022	MONARCH CEMENT COMPANY	KS	10069	1/27/2000	2 PRECALCINERS (EACH)	NAT. GAS	120 MMBTU/H	5,000 LB/H; 2,093.3 TPY		99 NATURAL GAS
KS-0020	ASH GROVE CEMENT	KS	1330001	8/26/1999	PREHEATER/PRECALCINER KILN	COAL	331 T/H	5,000 LB/H; 1,409 TPY	15.11 lb/ton (hourly); 0.97 lb/ton (annual)	Computerized process monitoring, GCP
CO-0047	HOLNAM, FLORENCE	CO	98-FR-0895	7/29/1999	Kiln/Preheater/Bypass & Clinker Cooler Exhaust			3988.7 T/YR		GOOD COMBUSTION
IN-0081	LONE STAR INDUSTRIES, INC.	IN	133-10159	4/16/1999	KILN OPERATION	COAL	360 T/H	2930 T/YR	3.65 LB/T clinker	GOOD COMBUSTION PRACTICES
TX-0279	NORTH TEXAS CEMENT COMPANY	TX	PSD-TX-893	3/4/1999	MAIN KILN/SCRUBBER STACK	COAL	3,100 T/D	2209 LB/H; 3,225 TPY	17.10 lb/ton (hourly); 5.70 lb/ton (annual)	GOOD COMBUSTION PRACTICES
IN-0112	LONE STAR INDUSTRIES, INC.	IN	133-5886-00002-3241	9/18/1998	CEMENT KILN, WET PROCESS,	TDF	75 T/H	22.8 LB/H	0.30 lb/ton clinker (wet process)	
TX-0282	CAPITOL CEMENT DIVISION	TX	PSD-TX-120M3	9/16/1998	WET KILN EXHAUST BAGHOUSE		378,650 T/YR CLINKER	80 LB/H; 350 TPY	1.85 lb/ton	NONE
MI-0354	HOLNAM, INC	MI	60-71K	6/23/1998	CEMENT KILNS, WET PROCESS, (2)	COAL	100 T/H	3515 T/YR	6.4 LB/T clinker	
TN-0086	SIGNAL MOUNTAIN CEMENT COMPANY,	TN	47-065-3070	5/29/1998	DRY FEED KILN	PET. COKE	160 T/H	248 LB/H; 1,085 TPY	1.55 lb/ton clinker	GOOD COMBUSTION PRACTICES
OR-0036	DURKEE FACILITY	OR	01-0029	2/26/1998	KILN			490 LB/H; 8-hr		NONE
MO-0048	LAFARGE CORPORATION	MO	0897-019	8/20/1997	RAW MILL, PREHEATER/PRECALCINER KILN		1,584,071 TONS	842 TON/YR	1.06 lb/ton	GOOD COMBUSTION practices
FL-0173	SOUTHDOWN, INC.	FL	PSD-FL-233	6/27/1997	KILN		165 T/H (1-hr)	1.2 LB/T	1.2 lb/ton kiln feed	COMBUSTION CONTROLS
OR-0022	ASH GROVE CEMENT COMPANY	OR	01-0029	3/10/1997	PYROPROCESSING KILN	NAT. GAS	113 TON CLINKER/H	490 LB/H	4.34 lb/ton	GCP as monitored by CO and O2 CEMS
PR-0003	PUERTO RICAN CEMENT COMPANY, INC.	PR	PR-0101	2/25/1997		COAL	4,100 TPD Clinker	296.6 LB/H, 8-H	1.74 lb/ton clinker	COMBUSTION CONTROLS.
FL-0224	FLORIDA ROCK INDUSTRIES, INC.	FL	PSD-FL-228	12/23/1996	KILN, PORTLAND	COAL	14 T/H	2.5 LB/T	2.5 LB/T clinker	COMBUSTION CONTROLS
UT-0062	HOLNAM, DEVIL'S SLIDE PLANT	UT	DAQE-522-96	5/13/1996	KILN	COAL		438 LB/H		COMBUSTION CONTROLS
FL-0110	FL CRUSHED STONE	FL	PSD-FL-227	11/17/1995	KILN	COAL	83 T/H	2 LB/T	2 LB/T clinker, 1-hr	GOOD COMBUSTION PRACTICES
NV-0032	GREAT STAR CEMENT CORP./UNITED ROCK PRODUCT	NV	A139	10/24/1995	CEMENT KILN/CLINKER COOLER			5.67 LB/TON CLINKER	5.67 LB/TON CLINKER	GOOD COMBUSTION PRACTICE. AIR/FUEL
WY-0044	MOUNTAIN CEMENT COMPANY-LARAMIE FACILITY	WY	CT-1137	3/6/1995	KILN, COAL	COAL	45.3 T/H COAL	3.2 LB/H		PROPER COMBUSTION/BURNER

* Based on 8,760 hours per year.

Source: EPA's RACT/BACT/LAER Clearinghouse, 2005.

(1) Source: Montana Department of Environmental Quality, September 21, 2005.

(2) Source: Missouri Air Pollution Control Program: September 2005.

(3) Source: Department of Health and Environmental Control, Bureau of Air Quality, South Carolina, May, 29, 2004.

(4) Source: Department of Health and Environmental Control, Bureau of Air Quality, South Carolina, March, 24, 2003.

(5) Source: Department of Natural Resources, Missouri Air Conservation Commission, June 8, 2004.

(6) Source: Vaidyanatha, Balaji, Arizona Department of Environmental Quality. Email Correspondence, September 23, 2005.

(7) Source: Department of Environmental Protection, Florida Division of Air Resource Management, July 7, 2005.

(8) Source: Department of Environmental Protection, Florida Division of Air Resource Management, March 29, 2005.

Table 6-14. Summary of Previous VOC BACT Determinations from Cement Kilns, Preheaters, and Calciners at Portland Cement Plants

RBLC ID	Facility Name	State	Permit No.	Date Issued	Process Type	Fuel Used	Throughput	Emission Limit 1	Emission Limit 2	Control Equipment Description
Unknown (1)	RINKER FLORIDA CRUSHED STONE COMPANY	FL	PSD-FL-351/0530021-009-AC	7/7/2005	PREHEATER/PRECALCINER KILN	COAL	125 TPH CLINKER	15 LB/HR	0.12 lb/ton clinker	Combustion control
Unknown (2)	FLORIDA ROCK INDUSTRIES, INC.	FL	PSD-FL-350/0010087-013-AC	July 2005	PREHEATER/PRECALCINER KILN	COAL	125 TPH CLINKER	15 LB/HR	0.12 lb/ton clinker	Combustion control
WV-0022	CAPITOL CEMENT DIVISION--MARTINSBURG PLANT	WV	R14-0026	6/2/2005	PREHEATER/PRECALCINER KILN	COAL	5,900 TPD	3,960 LB/HR	0.14 LB/TON CLINKER (12-month rolling)	GOOD COMBUSTION PRACTICES
AL-0200	CEMEX, INC.	AL	105-0002-Z004	9/13/2002	CEMENT KILN	COAL	230 T/H	136 LB/H	0.698 LB/T	
FL-0231	RINKER/MIAMI CEMENT PLANT	FL	PSD-FL-324	3/1/2002	IN-LINE KILN/RAW MILL/CLINKER COOLER SYSTEM	COAL	137 T/H CLINKER	0.12 LB/TON CLINKER	0.12 LB/TON CLINKER	PROPER COMBUSTION CONTROL AND RAW MATERIAL SELECTION. NONE INDICATED. ANY ADD ENVIRONMENTALLY INFEASIBLE
TX-0355	PORTLAND CEMENT MANUFACTURING PLANT	TX	PSD-TX-145 M1	6/29/2001	GRINDING/ PREHEATING/ KILN, K-19			15 LB/H; 63 TPY		
MD-0027	LEHIGH PORTLAND CEMENT COMPANY	MD	06-6-0356R	6/8/2000	MATERIAL STORAGE AND TRANSFER			165 T/YR		
FL-0139	SUWANNEE AMERICAN CEMENT COMPANY, INC.	FL	1210465-001-AC	6/1/2000	IN LINE KILN & RAW MILL	NATURAL GAS	178 T/H			
MI-0287	HOLNAM, INC.	MI	60-71L	3/20/2000	CEMENT KILNS, WET PROCESS (2)	COAL	100 T/H FEED			COMBUSTION CONTROL RTOS, THREE IN PARALLEL PER KILN. STANDBY ACTIVATED CARBON FOR BACKUP.
CO-0047	HOLNAM, FLORENCE	CO	98-FR-0895	7/29/1999	COAL MILL VENT BAGHOUSE			16.2 T/YR		GOOD COMBUSTION
CO-0047	HOLNAM, FLORENCE	CO	98-FR-0895	7/29/1999	KILN/PREHEATER/BYPASS & CLINKER COOLER EXHAUST			180.5 T/YR		GOOD COMBUSTION
TX-0279	NORTH TEXAS CEMENT COMPANY	TX	PSD-TX-893	3/4/1999	MAIN KILN/SCRUBBER STACK	COAL	3100 T/D	686 LB/H; 1,008 TPY	5.31 lb/ton (hourly); 1.78 lb/ton (annual)	GOOD COMBUSTION PRACTICES
N-0112	LONE STAR INDUSTRIES, INC.	IN	133-5886-00002-3241	9/18/1998	CEMENT KILN, WET PROCESS.	TDF	75 T/H	9.13 LB/H	0.12 lb/ton	
TX-0282	CAPITOL CEMENT DIVISION	TX	PSD-TX-120M3	9/16/1998	DRY/WET KILN & ALKALI BYPASS BAGHOUSE STACK (KS-1)		378,650 TPY DRY KILN/7:	277.55 LB/H; 395.58 TPY	6.42 lb/ton (dry, hourly); 2.1 lb/ton (dry, annual)	
TX-0282	CAPITOL CEMENT DIVISION	TX	PSD-TX-120M3	9/16/1998	DRY KILN EXHAUST BAGHOUSE (KS-1A)		730000 T/YR CLINKER	97.55 LB/H; 320.44 TPY	1.17 lb/ton (hourly); 0.88 lb/ton (annual)	NONE
TX-0282	CAPITOL CEMENT DIVISION	TX	PSD-TX-120M3	9/16/1998	ALKALI BYPASS BAGHOUSE STACK (9A)			2.87 LB/H; 9.44 TPY	0.35 lb/ton	NONE
TX-0282	CAPITOL CEMENT DIVISION	TX	PSD-TX-120M3	9/16/1998	WET KILN EXHAUST BAGHOUSE (KS-1B)			15 LB/H; 65.7 TPY	13 LB/T clinker	NONE
MI-0354	HOLNAM, INC	MI	60-71K	6/23/1998	CEMENT KILNS, WET PROCESS, (2)	COAL	100 T/H	7217 T/YR		COOLING AIR CONDENSER REMOVES PAH AND ORGANICS BEFORE BAGHOUSE. ACTIVATED CARBON IS INJECTED FOR ADSORPTION OPOLLUTANTS.
TN-0086	SIGNAL MOUNTAIN CEMENT COMPANY	TN	47-065-3070	5/29/1998	DRY FEED KILN	PET. COKE	160 T/H CLINKER	10.7 LB/H	0.07 lb/ton clinker	GOOD COMBUSTION
FL-0173	SOUTHDOWN, INC. (CEMEX)	FL	PSD-FL-233	6/27/1997	KILN		165 T/H (1-hr)	0.09 LB/T	0.09 LB/T kiln feed	GOOD COMBUSTION PRACTICES
PR-0003	PUERTO RICAN CEMENT COMPANY, INC.	PR	PR-0101	2/25/1997		COAL	4100 TPD OF CLINKER	20.5 LB/H, 24-H	0.12 LB/T	COMBUSTION CONTROLS
FL-0224	FLORIDA ROCK INDUSTRIES, INC.	FL	PSD-FL-228	12/23/1996	KILN, PORTLAND	COAL	14 T/H	0.11 LB/T clinker	0.11 LB/T clinker	COMBUSTION controls
WY-0044	MOUNTAIN CEMENT COMPANY-LARAMIE FACILITY	WY	CT-1137	3/6/1995	KILN, COAL	COAL	45.3 T/H COAL	7.3 LB/H		PROPER COMBUSTION/BURNER GOOD COMBUSTION PRACTICES AND SELECTIVE QUARRYING
Unknown (3)	Holcim (US), Inc., Lee Island Project	MO	062004-005	6/8/2004	KILN/CALCINER/PREHEATER	COAL	? ?	LB/HR (30-Day 182 Block)	0.33 LB/TON CLINKER	GOOD COMBUSTION PRACTICES
Unknown (4)	Giant Cement, Portland Cement plant	SC	0900-0002-DO	5/29/2003	KILN SYSTEM	COAL		LB/HR (30-Day 85 Roll)	0.55 LB/TON CLINKER	GOOD COMBUSTION PRACTICES
Unknown (5)	Holnam, Holly Hill	SC		5/29/2003	KILN SYSTEM	COAL	2462318 ton clink /yr		0.27 LB/TON CLINKER (3-hr stack test)	GOOD COMBUSTION PRACTICES
Unknown (6)	Holcim, cement kiln	CO	98-FR-0895	12/1/2004	KILN SYSTEM	COAL	2,220,000 ton clink /yr	TPY (12-mo. 843 Rolling)	0.9 LB/TON CLINKER (30-day roll)	GOOD COMBUSTION and SELECTIVE QUARRY PRACTICES

Source: EPA's RACT/BACT/LAER Clearinghouse, 2005.

(1) Source: Department of Environmental Protection, Florida Division of Air Resource Management, July 7, 2005.

(2) Source: Department of Environmental Protection, Florida Division of Air Resource Management, March 29, 2005.

(3) Source: Department of Natural Resources, Missouri Air Conservation Commission, June 8, 2004.

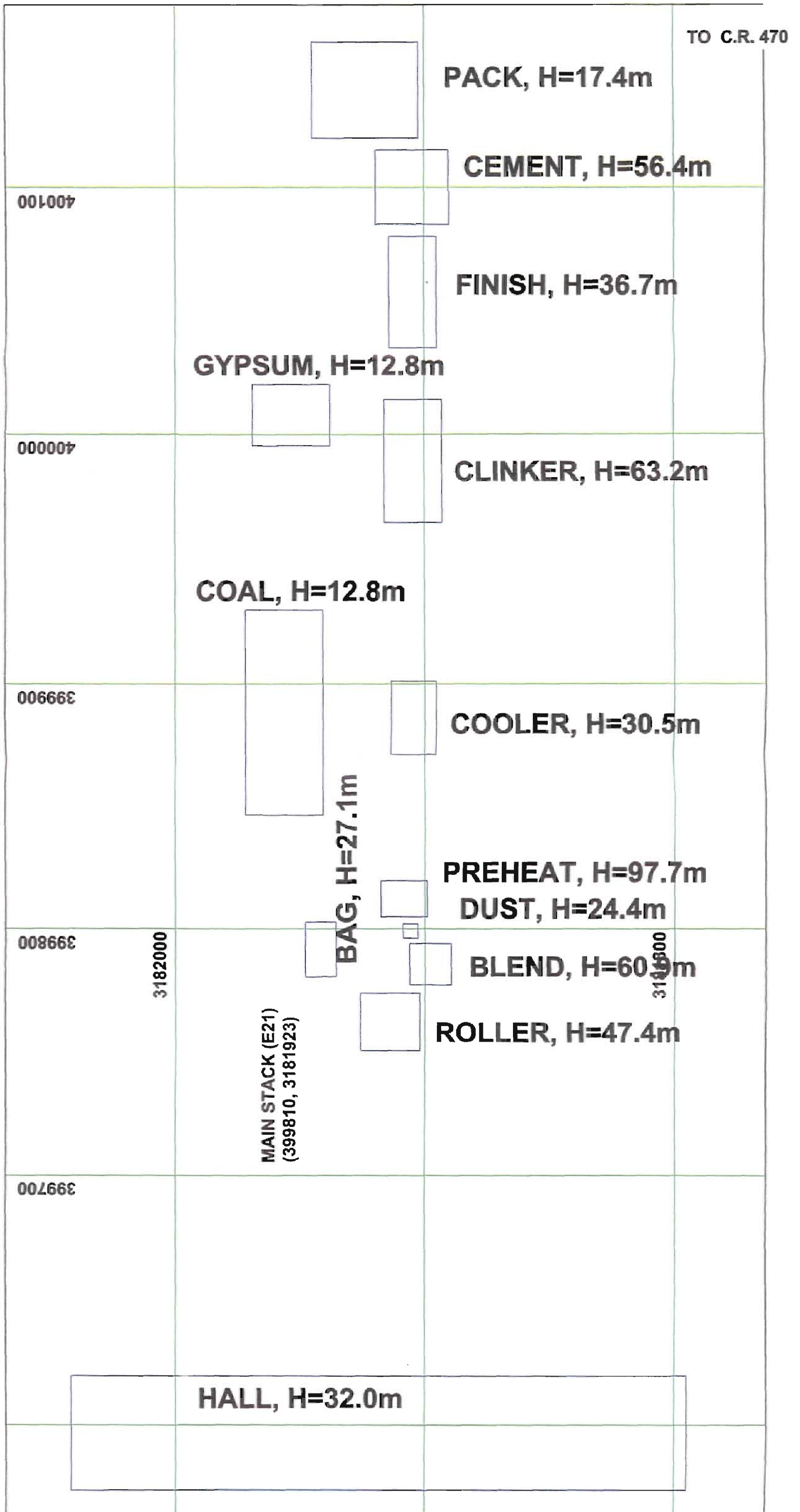
(4) Source: Department of Health and Environmental Control, Bureau of Air Quality, South Carolina, March, 24, 2003.

(5) Source: Department of Health and Environmental Control, Bureau of Air Quality, South Carolina, May, 29, 2004.

(6) Source: Colorado Air Pollution Control Division, December 2004.

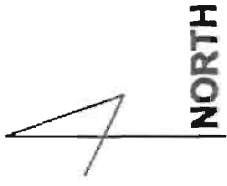
NATURAL RESOURCES OF CENTRAL FLORIDA, INC.
 dba American Cement Company

Scale 1" = 37.5 meters

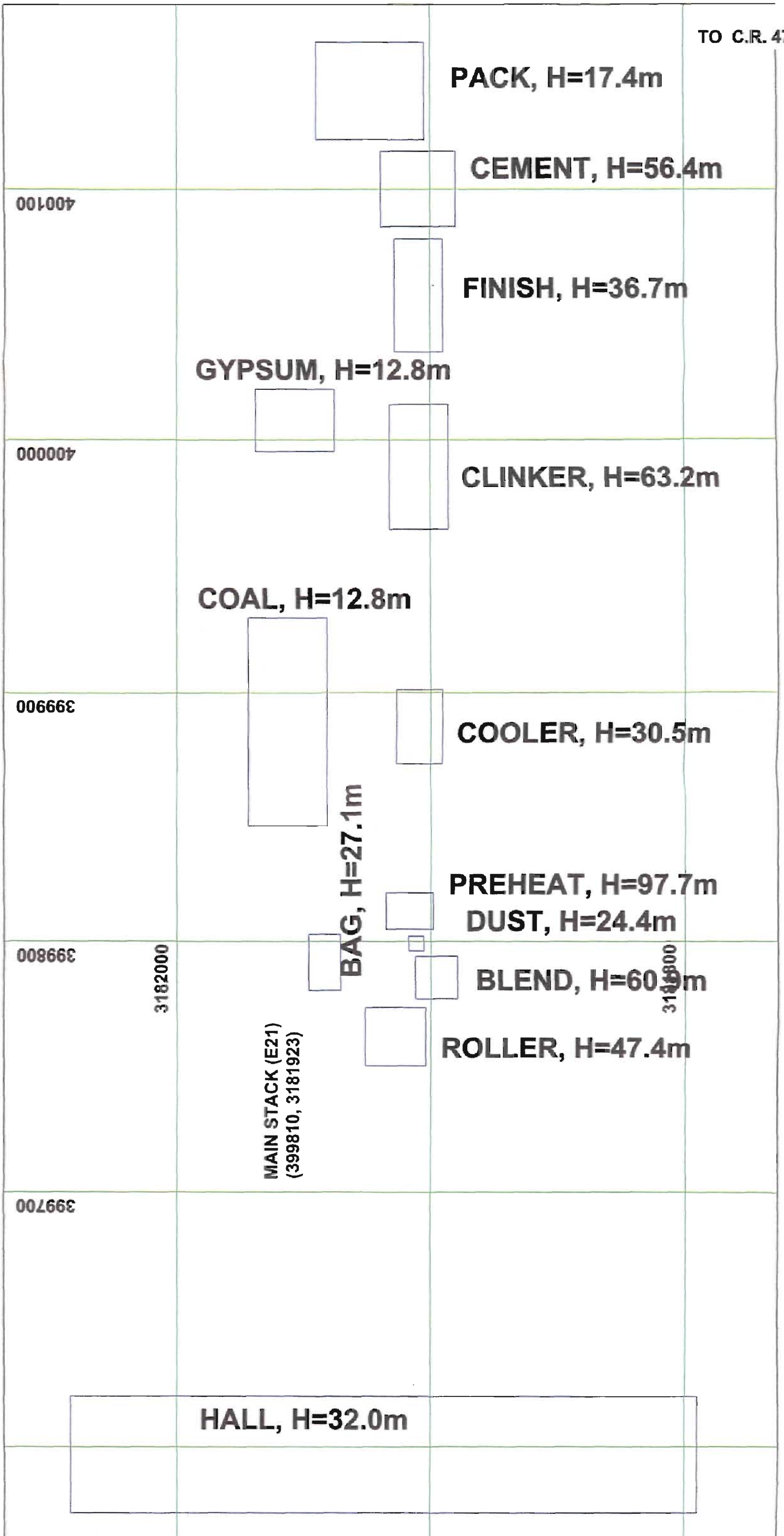


NATURAL RESOURCES OF CENTRAL FLORIDA, INC.
 dba American Cement Company

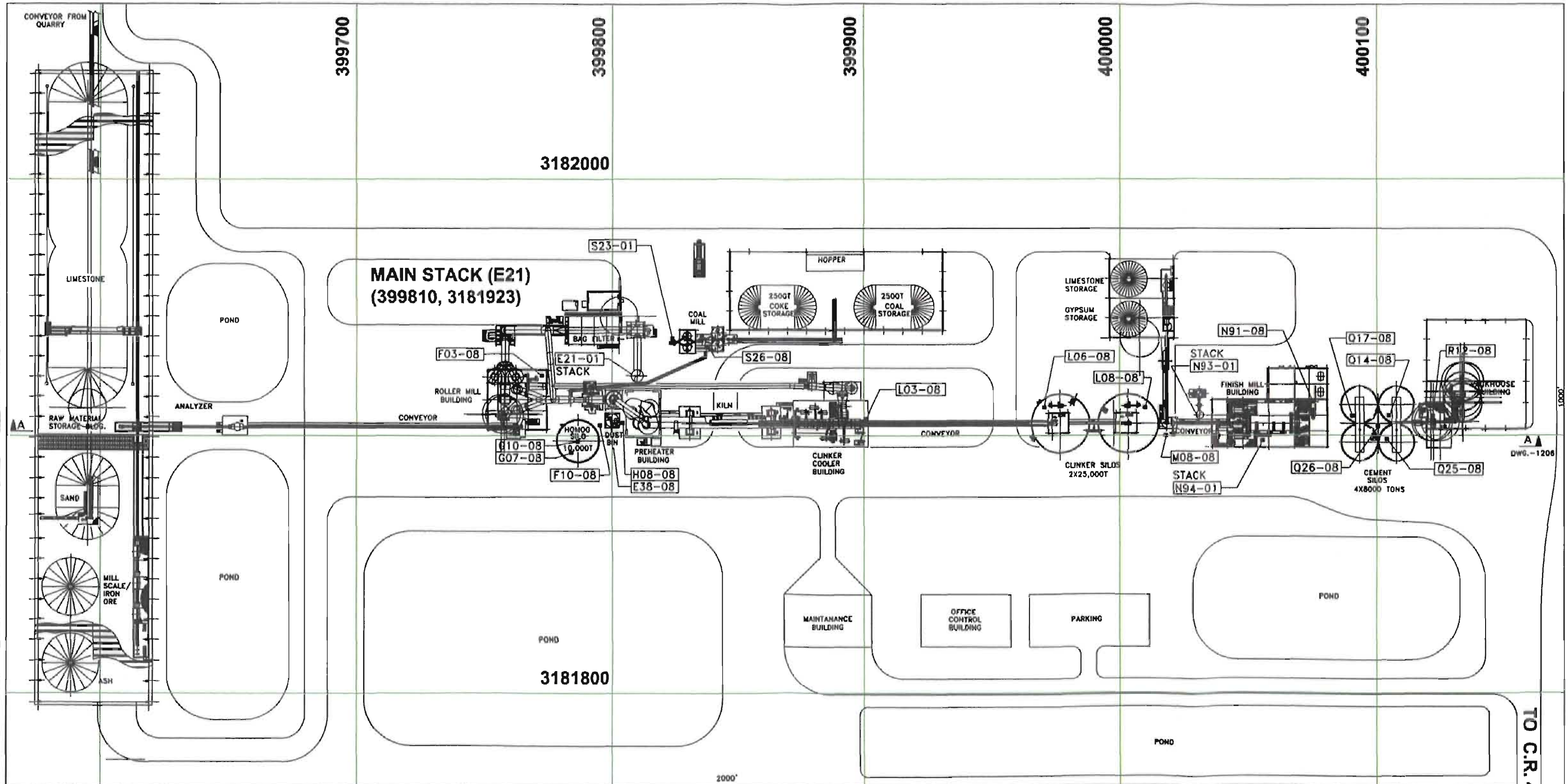
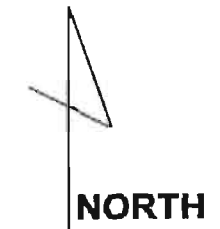
Scale 1" = 37.5 meters



TO C.R. 470



NATURAL RESOURCES OF CENTRAL FLORIDA, INC.
 dba American Cement Company
 Scale 1" = 37.5 meters

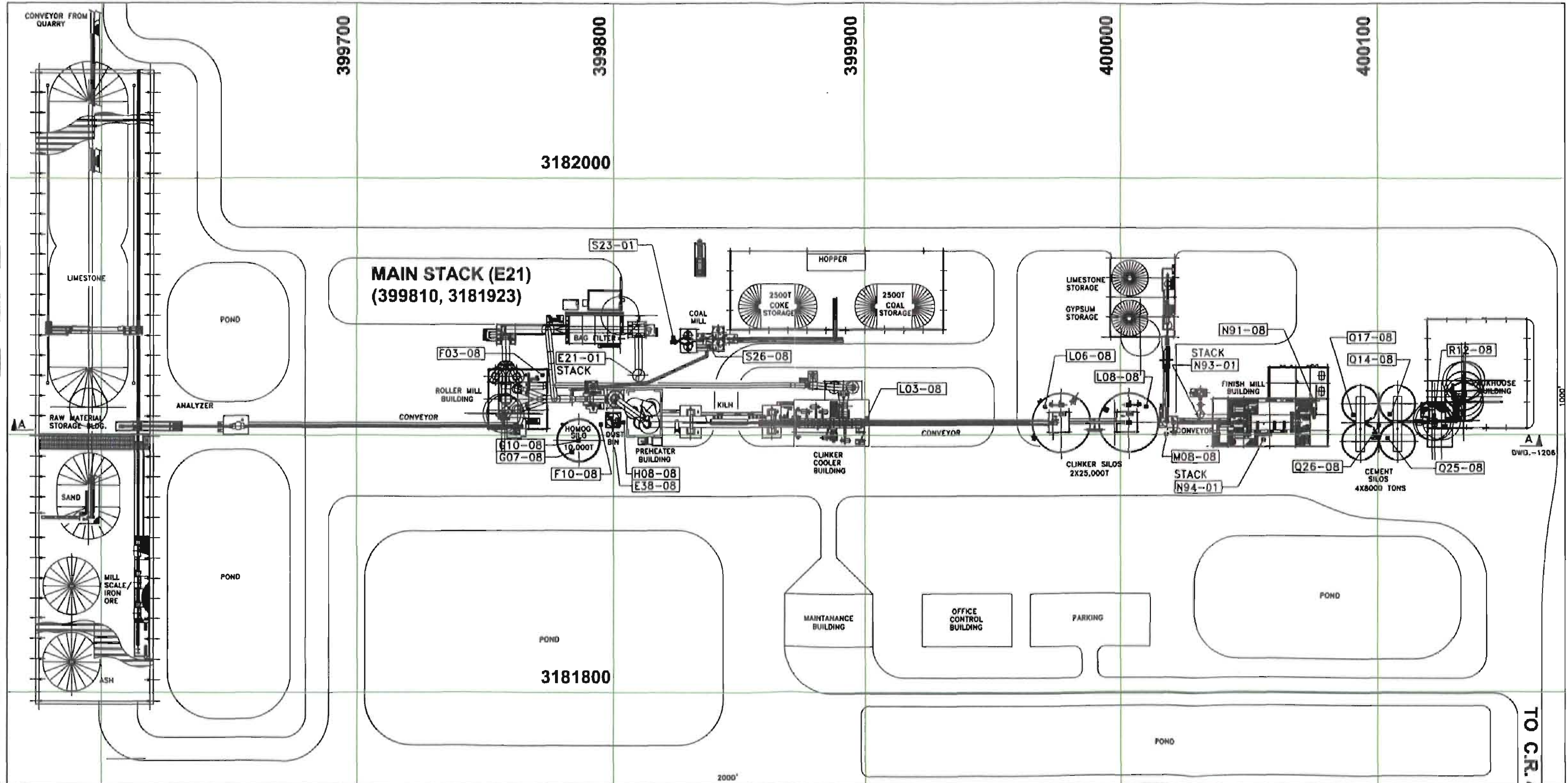


TO C.R. 470

DWG. - 1208

2000'

NATURAL RESOURCES OF CENTRAL FLORIDA, INC.
dba American Cement Company
Scale 1" = 37.5 meters



TO CR. 470

DWG. - 1206

Paved Road Emissions Estimation

No truck traffic expected between 8 pm and 4 am

E = PM10 (lb/VMT)
 k = base emission factor for particle size
 sL = surface silt loading (g/m²)
 W = average weight of vehicles (tons)
 Road segments for this mode
 Customer roads, length (ft)
 Road segments
 Length per segment
 Rate, (tph)
 Capacity (tons) per truck
 Number of vehicles per hour
 Hours per year
 Vehicle miles traveled per hour for this mode
 Vehicle miles traveled per year for this mode
 Emission rate (lb/hr)
 Emission rate (tph)
 Emission rate (g/sec)
 Emission rate per segment for this mode
 Cross check

Mode 1: Cement trucks - empty		Mode 2: Cement trucks - loaded		Mode 3: Coal trucks - loaded		Mode 4: Coal trucks - empty		Mode 5: Gypsum/limestone trucks - loaded		Mode 6: Gypsum/limestone trucks - empty		Mode 7: Ash/iron trucks - loaded			Mode 8: Ash/iron trucks - empty			Mode 9: Employees cars 2-way			
PM10	PM	PM10	PM	PM10	PM	PM10	PM	PM10	PM	PM10	PM	PM10	PM	PM10	PM	PM10	PM	PM10	PM		
0.0318	0.1628	0.1383	0.7088	0.1383	0.7088	0.0318	0.1628	0.1383	0.7088	0.0318	0.1628	0.1383	0.7088	0.0318	0.1628	0.0015	0.0070				
0.016	0.082	0.016	0.082	0.016	0.082	0.016	0.082	0.016	0.082	0.016	0.082	0.016	0.082	0.016	0.082	0.016	0.082				
0.14 From Florida Rock		0.14 From Florida Rock		0.14 From Florida Rock		0.14 From Florida Rock		0.14 From Florida Rock		0.14 From Florida Rock		0.14 From Florida Rock		0.14 From Florida Rock		0.14 From Florida Rock		0.14 From Florida Rock			
R1-R50		R51-R57	R32-R1	R1-R41	R58-R77	R77-R65	R78-R80	R48-R57, R32-R1	R1-R41	R58-R69	R69-R65	R78-R80	R48-R57, R32-R1	R1-R41	R58-R77	RA1-RA33	R77-R65	R78-R80	R48-R57, R32-R1, RA1-RA33	R1-R30	RE1-RE13
2400 Paved		1872 Paved		2028 Paved		2784 Paved		2544 Paved		2400 Paved		4512 Paved		2784 Paved		2064 Paved					
50		39		781		58		53		50		64		58		43					
48		48		48		48		48		48		48		48		48					
216.0		216.0		24.4		24.4		7.8		7.8		35.1		35.1		60.0 employees					
25		25		25		25		25		25		25		25		25					
8.6		8.6		1.0		1.0		0.3		0.3		1.4		1.4		5.0					
8760		8760		8760		8760		8760		8760		8760		8760		8760					
3.93		3.06		10.54		0.51		0.15		0.14		1.20		0.74		1.95					
34403	PM	28834	PM	4741	PM	4508	PM	1317	PM	1242	PM	10510	PM	6485	PM	17122	PM				
0.12	0.64	0.42	2.17	0.07	0.38	0.02	0.09	0.02	0.11	0.00	0.02	0.17	0.85	0.02	0.12	0.00	0.02				
0.55	2.80	1.86	9.51	0.33	1.68	0.07	0.37	0.09	0.47	0.02	0.10	0.73	3.72	0.10	0.53	0.01	0.07				
0.0157		0.0534		0.0094		0.0021		0.0026		0.0008		0.0209		0.0030		0.0004					
0.0003	PER 14.62m (48') SINGLE PASS	0.001	PER 14.62m (48') SINGLE PASS	0.0002	PER 14.62m (48') SINGLE PASS	0.00004	PER 14.62m (48') SINGLE PASS	0.00005	PER 14.62m (48') SINGLE PASS	0.00001	PER 14.62m (48') SINGLE PASS	0.0002	PER 14.62m (48') SINGLE PASS	0.00005	PER 14.62m (48') SINGLE PASS	0.000009	PER 14.62m (48') SINGLE PASS	0.000018	PER 14.62m (48') DOUBLE PASS		
0.0003		0.001		0.000155		0.00004		0.00005		0.00001		0.000222		0.00005							

107163
 3.78 19.25
 PM10, tpy PM, tpy

Affidavit of Publication The Daily Commercial

Leesburg, Lake County, Florida

Case No. _____

STATE OF FLORIDA
COUNTY OF LAKE

Before the undersigned authority personally appeared Alan Ferguson who on oath says that he is the Advertising Director of The Daily Commercial, a daily newspaper published at Leesburg in Lake County, Florida, that the attached copy of advertisement, being

No: 04582111

in the matter of Public Notice

in the _____ Court,

was inserted in said newspaper in the issues of _____

Dec 20, 2005

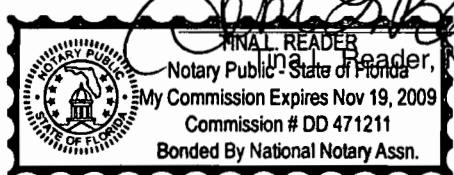
Affiant further says that the said Daily Commercial is a newspaper published in said Leesburg, in said Lake County, Florida, and that the said newspaper has heretofore been continuously published in said Lake County, Florida each day and has been entered as second class matter at the post office in Leesburg in said Lake County, Florida, for a period of one year preceding the first publication of the attached copy of advertisement; and affiant further says that he has neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in said newspaper.

Signed Alan Ferguson
Alan Ferguson, Advertising Director

Sworn to and subscribed before me this 20 day of December, 2005, by Alan Ferguson,

Advertising Director, who is personally known to me.

(Seal)



John S. Brade
Notary Public, State of Florida
My Commission Expires Nov 19, 2009
Commission # DD 471211
Bonded By National Notary Assn.

PUBLIC NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT OEP File No. 1190042-001- AC (PSD-FL-361)

Natural Resources of Central Florida, Inc. dba American Cement Company Sumterville Cement Plant Sumter County The Department of Environmental Protection (Department) gives notice of its intent to issue an Air Construction Permit to Natural Resources of Central Florida, Inc. to construct a greenfield portland cement plant north of County Road 470 and east of Sumterville in Sumter County. A review under the rules for the Prevention of Significant Deterioration of Air Quality (PSD) and Best Available Control Technology (BACT) determinations were required for nitrogen oxides (NOx), sulfur dioxide (SO2), volatile organic compounds (VOC), carbon monoxide (CO), and particulate matter (PM/PM10). The applicant's name and business address are Natural Resources of Central Florida, Inc., dba American Cement Company, Post Office 1209, Anthony, Florida 32617.

American Cement Company (ACC) proposes to construct a nominal 1,150,000 tons per year (TPY) dry process portland cement plant. The equipment will include: a primary crusher and conveyance equipment to transport limestone to raw material storage; a raw material storage building for limestone and materials containing silica, alumina, iron, and additives; stackers, reclaimers, and conveyance equipment to raw materials drying and milling; a homogenizing silo; a dry process preheater/calciner (PH/C) kiln with in-line raw mill capable of producing 3,000 tons per day (TPD) of clinker; a reciprocating clinker cooler; a coal and petroleum coke mill; conveyance equipment to clinker storage; conveyance equipment to the finish mill; cement silos and a truck loadout area; and a packhouse. Numerous baghouses will be included to contain dust from materials conveyance, transfer and handling. A single large baghouse will serve exhaust from the PH/C kiln, raw mill, and clinker cooler. The heat necessary to convert the raw materials to clinker will be provided by coal and petroleum coke combustion in the main kiln burner and calcination burner. NOx emissions will be minimized by indirect firing in a Low NOx main kiln burner, staged combustion in the calciner, and a selective non-catalytic reduction (SNCR) ammonia injection system. SO2 emissions will be controlled by use of inherently low sulfur raw materials and scrubbing by finely divided lime in the calciner. CO and VOC emissions will be controlled by promoting complete combustion in the kiln and calciner and minimizing carbon and oily content of raw materials. PM/PM10 from the PH/C kiln, in-line

raw mill, and clinker cooler will be controlled by a single large fabric filter baghouse. Emissions points from handling, conveyance, and transfer will be controlled by baghouses. Emissions from raw materials piles, loading operations, transportation, etc. will be controlled by reasonable precautions including paving, road sweeping, watering, planting grass, etc.

The ACC Plant will be subject to the maximum achievable control technology (MACT) requirements in 40CFR63, Subpart LLL - National Emission Standards for Hazardous Air Pollutants for Portland Cement Manufacturing Industry. In addition, the plant will be subject to the Department's determination of best available control technology (BACT). The BACT determinations for the PH/C kiln, in-line calciner, and clinker cooler are: 1.95 pounds of NOx per ton of clinker (lb/ton); 0.20 lb SO2/ton, 2.9 lb CO/ton, 0.12 lb VOC/ton; and 0.153 lb PM/PM10/ton. The BACT determinations are among the lowest emission limitations among recent determinations in the state and the country.

Mercury (Hg) emissions will be limited to 122 pounds per year. Initially compliance will be conservatively estimated based on the concentration of Hg in the fuels and raw materials entering the process. The Department has determined that by the second year of operation, reliable mercury continuous emission monitors (Hg-CEMS) will be available and requires that a Hg-CEMS be installed to measure actual emissions. This will be the first Hg-CEMS installation required at any facility in the State of Florida. This also represents the first Hg-CEMS monitor required at cement plants in the United States.

The Department reviewed the applicant's ambient air quality analysis for CO, NOx, SO2, VOC and PM/PM10, pollutants subject to PSD for this project. All pollutants were less than their respective Significant Impact Levels for the Class II area (i.e. all areas except for the Class I Chassahowitzka Wilderness Area) except for PM/PM10 on a 24-hour and annual basis. Therefore, a refined increment modeling analysis, including nearby sources and proposed cement plants in the county, was completed for PM10. The results of this analysis are given in the table below. This refined analysis demonstrated compliance with regulatory requirements which include demonstrating compliance with the ambient air quality standards.

Averaging Time	24-hour	Annual
Maximum Predicted Impact	ug/m3 29	6

Allowable Increment	ug/m3 30	17
---------------------	----------	----

Compliance with Increment	Yes	Yes
---------------------------	-----	-----

Percent of Increment	98%	36%
----------------------	-----	-----

All pollutants were less than their respective Significant Impact Levels for the nearest Class I area (the Chassahowitzka Wilderness Area located 58km from project) therefore, a refined multi-source increment modeling analysis was not required. Based on the required analyses, the Department has reasonable assurance that the proposed project will not cause or significantly contribute to a violation of any ambient air quality standard or PSD increment.

The Department will accept written comments concerning the proposed permit issuance action and requests for a public meeting for a period of thirty (30) days from the date of publication of "Public Notice of Intent to Issue Air Construction Permit." Written comments should be provided to the Department's Bureau of Air Regulation at 2600 Blair Stone Road, Mail Station #5505, Tallahassee, FL 32399-2400. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in the proposed agency action, the Department shall revise the proposed permit and require, if applicable, another Public Notice.

The Department will issue the permit with the attached conditions unless a timely petition for an administrative hearing is filed pursuant to Sections 120.569 and 120.57 F.S., before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below. Mediation is not available in this proceeding.

responsible official interests are affected by the proposed permitting decision may petition for an administrative proceeding (hearing) under sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below, and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station # 35, Tallahassee, Florida, 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within fourteen days of receipt of this notice of intent. Petitions filed by any persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of intent, whichever occurs first. Under section 120.60(3), however, any person who asked the Department for notice of agency action may file a petition within fourteen days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205 of the Florida Administrative Code.

A petition that disputes the material facts on which the Department's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner, the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of how and when petitioner received notice of the agency action or proposed action; (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate; (e) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle the petitioner to relief; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action; and (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

A petition that does not dispute the material facts upon which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

A complete project file is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:

Department of Environmental Protection
Bureau of Air Regulation
111 S. Magnolia Drive, Suite 4
Tallahassee, Florida 32301
Telephone: (850)488-0114
Fax: (850)922-6979

Department of Environmental Protection
Southwest District Office
13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926
Telephone: (813)632-7600
Fax: (813)632-7668

The complete project file includes the application, technical evaluations, Draft Permit, and the information submitted by the

exclusive of confidential records under Section 403.111, F.S. Interested persons may contact the Program Administrator, South Permitting Section at 111 South Magnolia Drive, Suite 4, Tallahassee, Florida 32301, or call 850/921-9523, for additional information. Key documents can be viewed at www.dep.state.fl.us/air/permitting/construction/american.htm

NO:04582111
December 20, 2005

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p><i>x R.E. Moser</i></p> <p>B. Received by (Printed Name) C. Date of Delivery</p> <p><i>R.E. Moser 2/16/66</i></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If YES, enter delivery address below:</p>
<p>1. Article Addressed to:</p> <p>Mr. Cary Cohrs, NRCF dba ACC Post Office Box 1209 Anthony, Florida 32617</p>	<p>3. Service Type</p> <p><input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail</p> <p><input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise</p> <p><input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
<p>2. Article Number (Transfer from service label) 7000 1670 0013 3110 0628</p>	
<p>PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540</p>	

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

OFFICIAL USE

Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		

7000 1670 0013 3110 0628

Mr. Cary Cohrs, NRCF dba ACC
Post Office Box 1209
Anthony, Florida 32617

PS Form 3800, May 2000 See Reverse for Instructions