

US EPA ARCHIVE DOCUMENT

Data Summary: Cement Kilns, Total Chlorine

	1	2	3	4	5	6	8	11	12	20	21	22	25	30	31	32
2	Source ID	Cond ID	Facility Information		Combustor Information		APCS	Short	ILRM	Condition Information			Emission		CI Emissions	
3	Number	Number	Facility Name	City	Combustor Category	Combustor Class	Detailed Acronym	Kiln	Status	Cond Dates	Cond Description	Spiking	Tier	Camp Number	Rating	Rating Comments
6	200	200C10	Giant Cement	Harleyville	Cement kiln	Cement Kiln (C FF		No		9/1/1998	CoC, Max operating mode waste feed, temp	Y		3	1	IB
7	200	200C11	Giant Cement	Harleyville	Cement kiln	Cement Kiln (C FF		No		9/1/1998	CoC, Min dp on FF	Y		3	1	CT
8	200	200C4	Giant Cement	Harleyville	Cement kiln	Cement Kiln (C FF		No		8/1/1995	CoC, MAX HW FIRING, MAX TIER III METAF	Y		3	2	CT
9	200	200C5	Giant Cement	Harleyville	Cement kiln	Cement Kiln (C FF		No		8/1/1995	CoC, MIN FF PRESSURE DROP	Y		3	2	IB
10	200	200C1	Giant Cement	Harleyville	Cement kiln	Cement Kiln (C FF		No		8/21/1992	CoC, MAX HW FEED, SPIKED METAL, SPI	Y		3	3	CT
11	201	201C10	Giant Cement	Harleyville	Cement kiln	Cement Kiln (C FF		No		6/1/1998	CoC, Max operating mode waste feed, temp	Y		3	1	IB
12	201	201C11	Giant Cement	Harleyville	Cement kiln	Cement Kiln (C FF		No		10/1/1998	CoC, Min dp on FF	Y		3	1	CT
13	201	201C1	Giant Cement	Harleyville	Cement kiln	Cement Kiln (C FF		No		8/21/1992	CoC, MAX HW FEED, SPIKED METAL, SPI	Y		3	2	CT
14	201	201C2	Giant Cement	Harleyville	Cement kiln	Cement Kiln (C FF		No		1/30/1991	DRE TEST, also PM, metals, HCl; pre BIF rule			3	3	NA
15	203	203C10	Holcim (US) Inc.	Artesia	Cement kiln	Cement Kiln (C ESP		No		5/1/2000	CoC: Max comb temp, max metal and chlori	Y		3	1	CT
16	203	203C5	Holcim (US) Inc.	Artesia	Cement kiln	Cement Kiln (C ESP		No		8/16/1996	CoC, MAX COMB ZONE TEMP, MAX METAF	Y		3	2	CT
17	203	203C4	Holcim (US) Inc.	Artesia	Cement kiln	Cement Kiln (C ESP		No		12/1/1993	State of Mississippi required annual testing,	Y		3	4	N
18	203	203C1	Holcim (US) Inc.	Artesia	Cement kiln	Cement Kiln (C ESP		No		7/19/1993	CoC, MAX HW FEED	Y		3	5	CT
19	204	204C9	Holcim (US) Inc.	Clarksville	Cement kiln	Cement Kiln (C ESP		No		2/1/1996	CoC, MAX GAS FLOW RATE, MAX CHLOR	Y		3	1	IB
20	204	204B2	Holcim (US) Inc.	Clarksville	Cement kiln	Cement Kiln (C ESP		No		5/1/1996	NORMAL KILN OPERATING CONDITIONS	Y		3	1	IB
21	204	204B3	Holcim (US) Inc.	Clarksville	Cement kiln	Cement Kiln (C ESP		No		5/1/1996	CoC, MAX COMB ZONE TEMP, MAX SLUR	Y		3	1	CT
22	204	204C5	Holcim (US) Inc.	Clarksville	Cement kiln	Cement Kiln (C ESP		No		5/18/1994	NORMAL operating conditions			2	2	N
23	204	204C6	Holcim (US) Inc.	Clarksville	Cement kiln	Cement Kiln (C ESP		No		5/18/1994	LOW SULFUR FUEL research testing			2	2	NA
24	204	204C7	Holcim (US) Inc.	Clarksville	Cement kiln	Cement Kiln (C ESP		No		5/18/1994	LOW CL research testing			2	2	NA
25	204	204C8	Holcim (US) Inc.	Clarksville	Cement kiln	Cement Kiln (C ESP		No		5/18/1994	WATER INJECTION research testing			2	2	NA
26	204	204C2	Holcim (US) Inc.	Clarksville	Cement kiln	Cement Kiln (C ESP		No		4/1/1992	CoC, MAX COMB TEMP	Y		3	3	CT
27	207	207C12	Keystone	Bath	Cement kiln	Cement kiln (CI ESP		No		8/1/2000	CoC, max metals, waste, slurry	Y		3	1	CT
28	207	207C11	Keystone	Bath	Cement kiln	Cement kiln (CI ESP		No		12/1/1999	Trial burn; Low temp POHC DRE, PCDD/PC	Y		3	2	CT
29	207	207C10	Keystone	Bath	Cement kiln	Cement kiln (CI ESP		No		9/1/1998	CoC; max metals, chlorine, waste, slurry, mi	Y		3	3	CT
30	207	207C3	Keystone	Bath	Cement kiln	Cement kiln (CI ESP		No		1/1/1997	purpose of testing not clear	Y		3	4	CT
31	207	207C1	Keystone	Bath	Cement kiln	Cement kiln (CI ESP		No		1/1/1993	CoC, MAX PROD, MAX TIER III SPIKE, MA	Y		3	5	CT
32	208	208C11	Keystone	Bath	Cement kiln	Cement Kiln (C ESP		No		12/1/1999	TB, low temp, POHC DRE	Y		3	1	CT
33	208	208C10	Keystone	Bath	Cement kiln	Cement Kiln (C ESP		No		9/1/1998	CoC; max metals, chlorine, waste, slurry, mi	Y		3	2	CT
34	208	208C3	Keystone	Bath	Cement kiln	Cement Kiln (C ESP		No		10/1/1996	purpose of test not clear	Y		3	3	CT
35	208	208C1	Keystone	Bath	Cement kiln	Cement Kiln (C ESP		No		7/1/1992	CoC, MAX PROD, MAX TIER III SPIKE, MA	Y		3	4	CT
36	228	228C10	Ash Grove Cement Comf	Foreman	Cement kiln	Cement Kiln (C ESP		No		12/1/1997	Normal operating cond			1	1	N
37	228	228C2	Ash Grove Cement Comf	Foreman	Cement kiln	Cement Kiln (C ESP		No		12/1/1991	CoC, MAX HW FEED	Y		3	2	CT
38	300	300C10	Essroc	Logansport	Cement kiln	Cement Kiln (C ESP		No		10/1/1998	CoC; Min temp, max CO, POHC DRE, min E	Y		3	1	IB
39	300	300C11	Essroc	Logansport	Cement kiln	Cement Kiln (C ESP		No		10/1/1998	CoC; Max operating temp, max temp, feedra	Y		3	1	CT
40	300	300C12	Essroc	Logansport	Cement kiln	Cement Kiln (C ESP		No		10/1/1998	Risk burn, normal operations			1	1	N
41	300	300C13	Essroc	Logansport	Cement kiln	Cement Kiln (C ESP		No		10/1/1998	Risk burn, normal operations			1	1	N
42	300	300C1	Essroc	Logansport	Cement kiln	Cement Kiln (C ESP		No		5/20/1992	CoC, LOW COMB TEMP	Y		3	2	CT
43	302	302C10	Lafarge	Paulding	Cement kiln	Cement Kiln (C FF		No		5/1/1998	CoC; high temperature, max metals, prod ra	Y		3	1	CT
44	302	302C12	Lafarge	Paulding	Cement kiln	Cement Kiln (C FF		No		5/1/1998	Risk burn, normal operations			1	1	N
45	302	302C3	Lafarge	Paulding	Cement kiln	Cement Kiln (C FF		No		7/1/1995	CoC, MAX OPERATING CONDITIONS			2	2	NA
46	302	302C1	Lafarge	Paulding	Cement kiln	Cement Kiln (C FF		No		6/1/1992	CoC, MAX COMB TEMP, MIN ESP POWER, MAX PROD			3	3	NA
47	303	303C7	LONE STAR INDUSTRIE	CAPE GIRARI	Cement kiln	Cement Kiln (C QC/FF m	Yes	off		10/1/1995	Trial burn, HIGH COMB TEMP, IN-LINE RA	Y		3	1	CT
48	303	303C2	LONE STAR INDUSTRIE	CAPE GIRARI	Cement kiln	Cement Kiln (C QC/FF m	Yes	on		6/1/1992	CoC, LOW COMB TEMP	Y		3	2	CT
49	303	303C1	LONE STAR INDUSTRIE	CAPE GIRARI	Cement kiln	Cement Kiln (C QC/FF m	Yes	on		4/1/1992	BASELINE, no haz waste			2	2	NA
50	303	303C6	LONE STAR INDUSTRIE	CAPE GIRARI	Cement kiln	Cement Kiln (C QC/FF m	Yes	on		4/1/1992	FUEL: COAL/TIRE COMBINATION			3	3	NA
51	318	318C1	TEXAS INDUSTRIES, IN	MIDLOTHIAN	Cement kiln	Cement Kiln (C ESP		No		6/1/1992	CoC, DRE Mode 1, MAX HW FEED, POHC SPIKING, NO			1	1	CT
52	318	473C3	Texas Industries Inc.	Midlothian	Cement kiln	Cement Kiln (C ESP		No		3/8/1995	CoC, COLD MODE, LOW COMB TEMP	Y		3	1	NA
53	319	319D6	CONTINENTAL CEMEN	HANNIBAL	Cement kiln	Cement Kiln (C ESP		No		2/1/1996	CoC, MAXIMUM TEMPERATURE CONDITIO	Y		3	1	CT
54	319	319C2	CONTINENTAL CEMEN	HANNIBAL	Cement kiln	Cement Kiln (C ESP		No		5/5/1992	CoC, HIGH COMB TEMP	Y		3	3	IB
55	319	319C4	CONTINENTAL CEMEN	HANNIBAL	Cement kiln	Cement Kiln (C ESP		No		5/5/1992	CoC, HIGH COMB TEMP	Y		3	3	CT
56	319	319C6	CONTINENTAL CEMEN	HANNIBAL	Cement kiln	Cement Kiln (C ESP		No		6/1/1990	COAL PLUS WASTES (LIQUID & SOLID)			4	4	NA
57	319	319C7	CONTINENTAL CEMEN	HANNIBAL	Cement kiln	Cement Kiln (C ESP		No		7/1/1990	COAL PLUS DIESEL FUEL			4	4	NA
58	322	322C8	LAFARGE	FREDONIA	Cement kiln	Cement Kiln (C ESP		No		9/1/1995	CoC, MAXIMUM OPERATING CONDITION:Y	Y		3	1	CT
59	322	322C4	LAFARGE	FREDONIA	Cement kiln	Cement Kiln (C ESP		No		6/9/1993	COAL-FIRED BASELINE			2	2	NA
60	322	322C5	LAFARGE	FREDONIA	Cement kiln	Cement Kiln (C ESP		No		6/9/1993	WDLF-FIRED BASELINE			2	2	N
61	322	322C6	LAFARGE	FREDONIA	Cement kiln	Cement Kiln (C ESP		No		6/9/1993	WDLF-FIRED LOW TEMP			2	2	NA
62	322	322C7	LAFARGE	FREDONIA	Cement kiln	Cement Kiln (C ESP		No		6/9/1993	WDLF-FIRED POTASH ADDITION			2	2	NA

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	2	33	34	35	36	37	38	39	40	41	42	43	44	57	58	61	62	63	
2	Cond ID	Total Chlorine Stack Emissions (ppmv)														CI SRE			
3	Number	R1		R2		R3		R4		R5		R6		Cond Avg	Campaign	Rating	Comment		
4		ND	Emiss	ND	Emiss	ND	Emiss	ND	Emiss	ND	Emiss	ND	Emiss	ND	Emiss	Number			
6	200C10			10		13			21						15	1	NA	CI not consistently controlled	
7	200C11	17		7		30			45					2	27	1	NA	CI not consistently controlled	
8	200C4					10			57						34	2	NA	CI not consistently controlled	
9	200C5			4		12									8	2	NA	CI not consistently controlled	
10	200C1			17		15			23		17				18	3	NA	CI not consistently controlled	
11	201C10			4		4			6						5	1	NA	CI not consistently controlled	
12	201C11			10		8			17						12	1	NA	CI not consistently controlled	
13	201C1			23		20			17		19				20	2	NA	CI not consistently controlled	
14	201C2	data		7		10			4						7				
15	203C10			32		68			9						36	1	NA	CI not consistently controlled	
16	203C5	4		150	5	119	3		123					4	131	2	NA	CI not consistently controlled	
17	203C4			129		133			118						127				
18	203C1			132		131	1		99					0.4	121	5	NA	CI not consistently controlled	
19	204C9			23		36			33						31	1	NA	CI not consistently controlled	
20	204B2			25		29			34						29				
21	204B3			56		40			48						48				
22	204C5			18		22			18						19				
23	204C6	ing		9		10			15						11				
24	204C7	ing		12		6			8						9				
25	204C8	ing		10											10				
26	204C2	100		0	100	0	100		0					100	0	3	NA	CI not consistently controlled	
27	207C12			7	1	27	1		15					1	17	1	NA	CI not consistently controlled	
28	207C11	3		8		12			13					1	11				
29	207C10	14		5		15			18					2	12	3	NA	CI not consistently controlled	
30	207C3			32		10			6						16				
31	207C1			5		5			5		5				5	5	NA	CI not consistently controlled	
32	208C11			1		14	1		32	1					1	23			
33	208C10			29	1	32			36					0.5	32	2	NA	CI not consistently controlled	
34	208C3			11		6			6						7				
35	208C1			5		3			4		6				5	4	NA	CI not consistently controlled	
36	228C10	ants tl		20		17			19						19	1	NA	CI not consistently controlled	
37	228C2	ants this kiln for me		0		196				189		0	199	0	195	2	NA	CI not consistently controlled	
38	300C10			8		11			3						9	1	NA	CI not consistently controlled	
39	300C11			37		21			40						33	1	NA	CI not consistently controlled	
40	300C12			30		5			35						23	1	NA	CI not consistently controlled	
41	300C13			12		41			9						21	1	NA	CI not consistently controlled	
42	300C1			36		24			32		44				34	2	NA	CI not consistently controlled	
43	302C10			11		7			9						9	1	NA	CI not consistently controlled	
44	302C12			18		3			15						12				
45	302C3	0.3		56		57			53					0.1	55	2	NA	CI not consistently controlled	
46	302C1	9		13		11			12					3	12	3	NA	CI not consistently controlled	
47	303C7			95		71			82						83	1	NA	CI not consistently controlled	
48	303C2			7		8			13						10	2	NA	CI not consistently controlled	
49	303C1	azard		3		2			1						2	2	NA	CI not consistently controlled	
50	303C6	azard		5		4			4		9				6				
51	318C1			59		37	0.1		45					###	47	1	NA	CI not consistently controlled	
52	473C3			25		20			31						25	1	NA	CI not consistently controlled	
53	319D6			43		52			42						46	1	NA	CI not consistently controlled	
54	319C2	3		30	3	27	3		26					3	28	3	NA	CI not consistently controlled	
55	319C4	1		54	1	55	1		49	1	57		39		1	51	3	NA	CI not consistently controlled
56	319C6	data				215			227					0	221				
57	319C7	data		30		55									42				
58	322C8			50		36			35						40	1	NA	CI not consistently controlled	
59	322C4	azardous waste							57		38				48				
60	322C5					47			55				52		62				
61	322C6	ing				55			35				35		74				
62	322C7	ing				47			28				12		50				

Data Summary: Cement Kilns, Total Chlorine

	2	64	65	66	67	68	69	70	71	72	73	74	75	82	83	86	87	88	89	90	91	92	93	94	95	96	97	100	105	108	109	110	111	113
2	Cond ID	Chlorine SRE (%)														Chlorine SRE Used for Evaluation Purposes (%)						Chlorine Feedrate (Cond Avg) ug/dscm												
3	Number	R1	R2	R3	R4	R5	R6	Cond Avg	R1	R2	R3	R4	R5	R6	Cond Avg	HW	Spike	RM	Coal	Total														
4																																		
6	200C10	99.328	99.116	98.703				99.034	NA	NA	NA				NA	454,196	1,729,484	90,386	1,347	2,275,412														
7	200C11	> 99.723	98.797	98.163				> 98.911	NA	NA	NA				NA	255,781	3,464,544	67,261	3,065	3,790,650														
8	200C4		99.294	95.527				97.585	NA	NA	NA				NA	492,385	1,503,744	120,227		2,124,963														
9	200C5	99.815	99.515					99.664	NA	NA					NA	606,002	2,869,609	128,973		3,604,584														
10	200C1	99.007	99.166	99.046	99.417			99.187	NA	NA	NA	NA			NA	3,309,104	25,944	12,322	7,727	3,355,096														
11	201C10	99.724	99.677	99.631				99.671	NA	NA	NA				NA	647,626	1,478,997	57,786	4,511	2,188,920														
12	201C11	99.562	99.650	99.188				99.475	NA	NA					NA	577,120	2,699,763	84,530	6,700	3,368,113														
13	201C1	99.344	98.476	98.932	99.040			99.058	NA	NA	NA	NA			NA	3,109,837	30,524	10,655	23,638	3,174,655														
14	201C2																																	
15	203C10	97.124	93.801	99.228				96.775	NA	NA	NA				NA	260,096	1,339,311	96,663	9,526	1,706,786														
16	203C5	> 92.157	> 91.499	> 76.488				> 79.650	NA	NA	NA				NA		670,388	1,408,146	53,127	2,131,662														
17	203C4																																	
18	203C1	88.095	82.267	89.191				86.903	NA	NA	NA				NA		1,389,809	272	7,921	1,398,002														
19	204C9	97.201	96.421	97.077				96.890	NA	NA	NA				NA	829,073	499,899	147,025	16,996	1,496,867														
20	204B2																																	
21	204B3																																	
22	204C5																																	
23	204C6																																	
24	204C7																																	
25	204C8																																	
26	204C2	> 99.993	> 99.993	> 99.991				> 99.992	NA	NA	NA				NA	1,621,970		99,762	19,429	1,741,161														
27	207C12	97.852	> 87.718	> 93.152				93.574	NA	NA	NA				NA	302,732	0	70,005	18,132	390,868														
28	207C11																																	
29	207C10	> 99.406	97.505	96.820				> 98.057	NA	NA	NA				NA	274,396	667,574	11,240	14,395	967,605														
30	207C3																																	
31	207C1	99.269	99.150	99.206	99.214			99.210	NA	NA	NA	NA			NA	717,238		166,481	57,341	941,060														
32	208C11																																	
33	208C10	95.314	95.213	95.353				95.284	NA	NA	NA				NA	468,613	521,604	12,944	33,700	1,036,860														
34	208C3																																	
35	208C1	98.924	99.265	98.917	98.293			98.865	NA	NA	NA	NA			NA	323,216	272,999	175,656	37,711	610,364														
36	228C10	99.281	94.341	94.223				98.334	NA	NA	NA				NA	1,646,486		57,516	6,164	1,710,166														
37	228C2	> 85.152		85.644				> 85.482	> 85.427	NA	NA	NA	NA		NA		1,487,802	518,166	17,309	2,023,276														
38	300C10	99.555	99.213	99.755				99.390	NA	NA	NA				NA	918,606	1,348,738	28,863		2,296,207														
39	300C11	97.353	99.018	97.997				98.225	NA	NA	NA				NA	2,375,313	397,703	17,886		2,791,445														
40	300C12	96.217	99.343	93.893				96.800	NA	NA	NA				NA	1,073,802		27,059		1,103,934														
41	300C13	98.565	95.370	99.090				97.713	NA	NA	NA				NA	1,322,563		30,047		1,362,043														
42	300C1	97.319	98.369	97.580	97.591			97.719	NA	NA	NA	NA			NA		1,476,139	27,041	5,188	2,246,437														
43	302C10	99.063	99.393	99.325				99.260	NA	NA	NA				NA	1,797,265	0	58,058		1,855,323														
44	302C12																																	
45	302C3	95.484	95.893	97.104				96.273	NA	NA	NA				NA	2,161,692		91,143		2,252,835														
46	302C1	99.335	99.361	99.293				99.336	NA	NA	NA				NA		2,548,391	194,731		2,743,123														
47	303C7							91.905							NA	1,007,624	0	226,785	312,194	1,546,603														
48	303C2	99.352	99.238	98.760				99.120	NA	NA	NA				NA	1,309,447		319,159	30,499	1,659,104														
49	303C1	98.396	99.022	99.404				98.945	NA	NA	NA				NA			237,990	146,501	292,152														
50	303C6																																	
51	318C1	88.831	93.678	91.623				91.453	NA	NA	NA				NA		686,438		149,622	836,060														
52	473C3	96.911	97.020	93.393				96.091	NA	NA	NA				NA	984,003				984,003														
53	319D6	96.693	95.708	96.956				96.480	NA	NA	NA				NA	1,739,418	0	197,913	33,089	1,970,419														
54	319C2							98.595							NA	2,322,721		529,293	134,503	2,986,517														
55	319C4							95.409							NA	1,410,197		238,831	26,618	1,675,646														
56	319C6																			828,712														
57	319C7																																	
58	322C8	97.745	97.690	98.568				98.057	NA	NA	NA				NA	3,051,149		101,853		3,153,002														
59	322C4																																	
60	322C5																																	
61	322C6																																	
62	322C7																																	

Data Summary: Cement Kilns, Total Chlorine

	2	167	168	169	170	171	172	173			174	175	176	177	178	179	180	181	182	183	184	185	188	189	190	191	192
2	Cond ID	Thermal Feed Cond Avg (MMBtu/hr)				Thermal Emission Rating			Chlorine HW Thermal Emiss (lb/10 ⁹ Btu)																		
3	Number	Coal	MF	Total	Est Tot	Camp No	Rating	Rating Comments	R1	R2	R3	R4	R5	R6	Cond Avg	R1											
6	200C10	15.2		185.8	211.2	1	IB	CT vs IB rating even though SRE is rated NA		13.74	17.48	40.19												23.80		2.04	
7	200C11	15.2		68.1	126.9	1	CT	CT vs IB rating even though SRE is rated NA	17	13.51	94.30	258.30		2	122.04	4.88											
8	200C4	43.8		177.9	232.1	2	CT	CT vs IB rating even though SRE is rated NA		19.14	135.73													77.44			
9	200C5	13.4		99.0	144.5	2	IB	CT vs IB rating even though SRE is rated NA		8.44	26.45													17.45		4.57	
10	200C1	14.9		119.2	175.2	3	CT	CT vs IB rating even though SRE is rated NA		33.32	34.61	55.91		33.01	39.21	0.1	3.35										
11	201C10	27.6		176.9	274.7	1	IB	CT vs IB rating even though SRE is rated NA		8.50	9.91	14.14			10.85	3.08											
12	201C11	21.5		142.5	170.5	1	CT	CT vs IB rating even though SRE is rated NA		20.28	13.05	29.38			20.90	4.63											
13	201C1	30.2		149.9	197.4	2	CT	CT vs IB rating even though SRE is rated NA		34.73	68.84	31.04		44.75	44.84	5.29											
14	201C2																										
15	203C10	120.5		405.5	363.9	1	CT	CT vs IB rating even though SRE is rated NA		54.62	112.96	14.53			60.70	1.90											
16	203C5	187.9		349.9	483.0	2	CT	CT vs IB rating even though SRE is rated NA	4	116.03	5	134.40	3	472.98	4	241.14	1.48										
17	203C4																										
18	203C1	118.0		284.7	426.0	3	CT	CT vs IB rating even though SRE is rated NA		439.81	458.00	1	315.48		0.4	404.43	3.69										
19	204C9	566.7		998.4	1,326.0	1	CT	CT vs IB rating even though SRE is rated NA		109.59	145.16	122.61			125.79	3.92											
20	204B2																										
21	204B3	649.3		1,063.0	1,677.5																						
22	204C5																										
23	204C6																										
24	204C7																										
25	204C8																										
26	204C2	522.7		1,194.7	1,345.6	2	CT	CT vs IB rating even though SRE is rated NA	100	0.18	100	0.19	100	0.25		100	0.21	2.64									
27	207C12	14.0		92.3	147.8	1	CT	CT vs IB rating even though SRE is rated NA		11.77	1	45.40	1	29.08	1	28.75	0.55										
28	207C11				186.0																						
29	207C10	15.0		81.0	138.5	2	CT	CT vs IB rating even though SRE is rated NA	14	11.11	39.17	49.06			2	33.11	1.87										
30	207C3																										
31	207C1	59.4		109.2	123.9	3	CT	CT vs IB rating even though SRE is rated NA		9.91	13.42	10.47		13.90	11.93	1.36											
32	208C11				465.0																			1			
33	208C10	143.7		410.4	535.6	1	CT	CT vs IB rating even though SRE is rated NA		63.21	1	74.21	102.42		0.5	79.95	1.35										
34	208C3																										
35	208C1	127.8		289.3	250.6	2	CT	CT vs IB rating even though SRE is rated NA		23.04	11.58	18.34		27.78	20.18	2.14											
36	228C10	136.2			310.7																						
37	228C2	60.3		297.6	283.0	2	CT	CT vs IB rating even though SRE is rated NA			0	208.11		229.15		0	229.07	0	222.11								
38	300C10			189.0	295.9	1	IB	CT vs IB rating even though SRE is rated NA		16.04	21.45	7.57			15.02	3.60											
39	300C11		1.9	220.5	298.9	1	CT	CT vs IB rating even though SRE is rated NA		65.46	34.19	62.85			54.17	2.47											
40	300C12			173.7	285.9	1	NA	Normal		67.19	11.45	75.37			51.34	1.78											
41	300C13		19.0	213.7	294.2	1	NA	Normal		23.92	71.83	14.59			36.78	1.67											
42	300C1	42.7		148.9	254.2	2	CT	CT vs IB rating even though SRE is rated NA		111.81	62.18	92.32		142.32	102.16	4.17											
43	302C10			190.7	262.7	1	CT	CT vs IB rating even though SRE is rated NA		19.24	12.43	14.75			15.47	2.05											
44	302C12			184.3	257.8																						
45	302C3			165.3	141.1	2	NA	APCS since modified	0.3	63.00	63.19	47.09			0.1	57.76	1.40										
46	302C1			179.5	195.6	3	NA	APCS since modified	9	16.63	15.58	15.43			3	15.88	2.50										
47	303C7	408.2		619.6	823.2	1	CT	CT vs IB rating even though SRE is rated NA							262.52												
48	303C2	260.7		542.5	862.8	2	CT	CT vs IB rating even though SRE is rated NA		23.01	25.67	39.72			29.47	3.55											
49	303C1	440.0		440.0	879.7																						
50	303C6																										
51	318C1			200.4	290.9	1	CT	CT vs IB rating even though SRE is rated NA		107.66	70.91	0.1	82.21		0.03	86.92	0.96										
52	473C3			190.5	237.4																						
53	319D6	144.5		466.7	673.8	1	CT	CT vs IB rating even though SRE is rated NA		107.45	119.40	95.18			107.34	3.25											
54	319C2	140.4		418.6	684.8	2	CT	CT vs IB rating even though SRE is rated NA							3	67.61											
55	319C4																										
56	319C6	279.2		533.9	610.8																						
57	319C7																										
58	322C8			130.3	161.4	1	CT	CT vs IB rating even though SRE is rated NA		78.84	58.91	53.31			63.69	3.50											
59	322C4																										
60	322C5																										
61	322C6																										
62	322C7																										

Data Summary: Cement Kilns, Total Chlorine

	2	193	19	195	196	197	198	199	200	201	204	205
2	Cond ID	Chlorine in HW (lb/MMBtu)										
3	Number	R2	R3	R4	R5	R6	Cond Avg					
4												
6	200C10	1.98		3.10								2.37
7	200C11	7.84		14.06								8.93
8	200C4	2.71		3.03								2.87
9	200C5	5.45										5.01
10	200C1	4.15		5.86		5.66						4.76
11	201C10	3.06		3.83								3.32
12	201C11	3.73		3.62								3.99
13	201C1	4.52		2.91		4.66						4.34
14	201C2											
15	203C10	1.82		1.88								1.87
16	203C5	1.58		2.01								1.69
17	203C4											
18	203C1	2.58		2.92								3.07
19	204C9	4.06		4.20								4.06
20	204B2											
21	204B3											
22	204C5											
23	204C6											
24	204C7											
25	204C8											
26	204C2	2.68		2.88								2.74
27	207C12	0.37		0.42								0.45
28	207C11											
29	207C10	1.57		1.54								1.66
30	207C3											
31	207C1	1.58		1.32		1.77						1.51
32	208C11											
33	208C10	1.55		2.20								1.70
34	208C3											
35	208C1	1.57		1.69		1.63						1.76
36	228C10											
37	228C2	1.40				1.60				1.58		1.53
38	300C10	2.73		3.09								3.14
39	300C11	3.48		3.14								3.03
40	300C12	1.74		1.23								1.58
41	300C13	1.55		1.60								1.61
42	300C1	3.81		3.82		5.91						4.43
43	302C10	2.05		2.18								2.09
44	302C12											
45	302C3	1.54		1.63								1.52
46	302C1	2.44		2.18								2.37
47	303C7											3.24
48	303C2	3.37		3.20								3.38
49	303C1											
50	303C6											
51	318C1	1.12		0.98								1.02
52	473C3											
53	319D6	2.78		3.13								3.05
54	319C2											4.81
55	319C4											
56	319C6											
57	319C7											
58	322C8	2.55		3.72								3.26
59	322C4											
60	322C5											
61	322C6											
62	322C7											

Data Summary: Cement Kilns, Total Chlorine

	1	2	3	4	5	6	8	11	12	20	21	22	25	30	31	32	
2	Source ID	Cond ID	Facility Information		Combustor Information		APCS	Short	ILRM	Condition Information			Emission		CI Emissions		
3	Number	Number	Facility Name	City	Combustor Category	Combustor Class	Detailed	Kiln	Status	Cond	Cond Description	Spiking	Tier	Camp	Rating	Rating Comments	
4							Acronym			Dates				Number			
63	322	322C1	LAFARGE	FREDONIA	Cement kiln	Cement Kiln (C ESP		No		5/1/1992	CoC, MAX PROD,MAX HW FEED,MAX COI			3		3 CT	
64	323	323B2	LAFARGE	FREDONIA	Cement kiln	Cement Kiln (C ESP		No		2/1/1995	HIGH CHLORINE, LOW ESP INLET TEMPERATURE			1	NA	Not evaluated: demonstratio	
65	323	323C9	LAFARGE	FREDONIA	Cement kiln	Cement Kiln (C ESP		No		2/1/1995	HIGH CHLORINE, HIGH ESP INLET TEMPERATURE			1	NA	Not evaluated: demonstratio	
66	323	323B1	LAFARGE	FREDONIA	Cement kiln	Cement Kiln (C ESP		No		2/1/1995	LOW CHLORINE, HIGH ESP INLET TEMPERATURE			1	NA	Not evaluated: not burning h	
67	323	323B3	LAFARGE	FREDONIA	Cement kiln	Cement Kiln (C ESP		No		9/1/1995	CoC, MAX OPERATING CONDITIONS	Y		3		2 CT	
68	323	323C1	LAFARGE	FREDONIA	Cement kiln	Cement Kiln (C ESP		No		5/1/1992	CoC, MAX PROD,MAX HW FEED,MAX COI			3		3 CT	
69	403	403C10	Ash Grove Cement Com	Foreman	Cement kiln	Cement Kiln (C ESP		No		12/1/1997	Trial burn: Max comb temp, max metals, chl	Y		3		1 IB	
70	403	403C11	Ash Grove Cement Com	Foreman	Cement kiln	Cement Kiln (C ESP		No		12/1/1997	Trial burn: D/F test at max APCD temp and r	Y		3		1 IB	
71	403	403C12	Ash Grove Cement Com	Foreman	Cement kiln	Cement Kiln (C ESP		No		12/1/1997	Trial burn: PM compliance	Y		3		1 CT	
72	403	403C3	Ash Grove Cement Com	Foreman	Cement kiln	Cement Kiln (C ESP		No		11/1/1994	CoC, HIGH COMB TEMP, HIGH CL FEED, Y			3		2 CT	
73	403	403C1	Ash Grove Cement Com	Foreman	Cement kiln	Cement Kiln (C ESP		No		5/1/1992	CoC, HIGH COMB TEMP, MIN ESP POWEI	Y		3		3 IB	
74	403	403C2	Ash Grove Cement Com	Foreman	Cement kiln	Cement Kiln (C ESP		No		7/1/1992	CoC, LOW COMB TEMP, HIGH CL FEED, F	Y		3		3 CT	
75	404	404C10	Ash Grove Cement Com	Foreman	Cement kiln	Cement Kiln (C ESP		No		1/1/1998	Trial burn: Max comb temp, max metals, chl	Y		3		1 CT	
76	404	404C11	Ash Grove Cement Com	Foreman	Cement kiln	Cement Kiln (C ESP		No		1/1/1998	Risk burn normal oper cond			1		1 N	
77	404	404C4	Ash Grove Cement Com	Foreman	Cement kiln	Cement Kiln (C ESP		No		1/17/1995	CoC, MAX FEED, PRODUCTION, CHLORI	Y		3		2 CT	
78	404	404C1	Ash Grove Cement Com	Foreman	Cement kiln	Cement Kiln (C ESP		No		7/1/1992	CoC, HIGH COMB TEMP, MIN ESP POWEI	Y		3		3 CT	
79	404	404C2	Ash Grove Cement Com	Foreman	Cement kiln	Cement Kiln (C ESP		No		7/1/1992	CoC, LOW COMB TEMP, HIGH HW FEED	Y		3		3 IB	
80	473	473C3	Texas Industries Inc.	Midlothian	Cement kiln	Cement Kiln (C ESP		No		3/8/1995	CoC, COLD MODE, LOW COMB TEMP	Y		3		1 CT	
81	491	300C10	Essroc	Logansport	Cement kiln	Cement Kiln (C ESP		No		10/1/1998	CoC; Min temp, max CO, POHC DRE, min E	Y		3		1 NA	Data in lieu
82	491	300C11	Essroc	Logansport	Cement kiln	Cement Kiln (C ESP		No		10/1/1998	CoC; Max operating temp, max temp, feedra	Y		3		1 NA	Data in lieu
83	491	300C12	Essroc	Logansport	Cement kiln	Cement Kiln (C ESP		No		10/1/1998	Risk burn, normal operations			1		1 NA	Data in lieu
84	491	300C13	Essroc	Logansport	Cement kiln	Cement Kiln (C ESP		No		10/1/1998	Risk burn, normal operations			1		1 NA	Data in lieu
85	491	491C1	Essroc Corporation	Logansport	Cement kiln	Cement Kiln (C ESP		No		5/1/1995	CoC, MAX COMB TEMP, MAX METALS/CL FEED, MAX	Y		2		2 CT	Data for source 300 currentl
86	680	200C10	Giant Cement	Harleyville	Cement kiln	Cement Kiln (C FF		No		9/1/1998	CoC, Max operating mode waste feed, temp	Y		3		1 NA	Data in lieu
87	680	200C11	Giant Cement	Harleyville	Cement kiln	Cement Kiln (C FF		No		9/1/1998	CoC, Min dp on FF	Y		3		1 NA	Data in lieu
88	680	680C1	Giant Cement Company	Harleyville	Cement kiln	Cement Kiln (C FF		No		11/11/1993	?			2		2 N	Data for source 200 currentl
89	681	200C10	Giant Cement	Harleyville	Cement kiln	Cement Kiln (C FF		No		9/1/1998	CoC, Max operating mode waste feed, temp	Y		3		1 NA	Data in lieu
90	681	200C11	Giant Cement	Harleyville	Cement kiln	Cement Kiln (C FF		No		9/1/1998	CoC, Min dp on FF	Y		3		1 NA	Data in lieu
91	681	681C1	Giant Cement Company	Harleyville	Cement kiln	Cement Kiln (C FF		No		11/10/1993	State of South Carolina emissions testing requirements			1		1 N	Data for source 200 currentl
92	3029	3029C11	Lone Star	Greencastle	Cement kiln	Cement Kiln	ESP (mai	Yes	on	12/1/2000	CoC	Y		3		1 CT	ILRM is on
93	3030	3030C1	TXI	Midlothian	Cement kiln	Cement Kiln (C ESP		No		3/1/2001	Periodic air emissions evaluation			1		1 N	
94	3030	473C3	Texas Industries Inc.	Midlothian	Cement kiln	Cement Kiln (C ESP		No		3/8/1995	CoC, COLD MODE, LOW COMB TEMP	Y		3		1 NA	Data from sister kiln 473
95	3031	3031C1	ASH GROVE CEMENT C	CHANUTE	Cement kiln	Cement Kiln	FF (main)	Yes	on	12/1/2001	Comp Perf Test, raw mill on	Y		3		1 CT	MACT New Source; data no
96	3031	3031C2	ASH GROVE CEMENT C	CHANUTE	Cement kiln	Cement Kiln	FF (main)	Yes	off	3/1/2002	Comp Perf Test, raw mill off	Y		3		1 CT	MACT New Source; data no
97	302A	302C10	Lafarge	Paulding	Cement kiln	Cement Kiln (C FF		No		5/1/1998	CoC; high temperature, max metals, prod ra	Y		3		1 NA	Data in lieu
98	302A	302C12	Lafarge	Paulding	Cement kiln	Cement Kiln (C FF		No		5/1/1998	Risk burn, normal operations			1		1 NA	Data in lieu
99	302A	302C3	Lafarge	Paulding	Cement kiln	Cement Kiln (C FF		No		7/1/1995	CoC, MAX OPERATING CONDITIONS			2		2 NA	Not evaluated: APCS since
100	302A	302C1	Lafarge	Paulding	Cement kiln	Cement Kiln (C FF		No		6/1/1992	CoC, MAX COMB TEMP, MIN ESP POWER, MAX PROD			3		3 NA	Not evaluated: APCS since
101	473A	473C3	Texas Industries Inc.	Midlothian	Cement kiln	Cement Kiln (C ESP		No		3/8/1995	CoC, COLD MODE, LOW COMB TEMP	Y		3		1 NA	Data from sister kiln 473
102																	
103																	
104	Sources Shutdown or No Longer Burning Hazardous Wastes																
105	205	205C10	Holcim (US) Inc	Holly Hill	Cement kiln	Cement Kiln (C ESP		No		1/1/2000	Max comb temp, max metals, max chlorine, Y			3		1 CT	
106	205	205C5	Holcim (US) Inc	Holly Hill	Cement kiln	Cement Kiln (C ESP		No		6/1/1995	ReCoC, HIGH COMB TEMP, HIGH METAL	Y		3		2 CT	
107	205	205C8	Holcim (US) Inc	Holly Hill	Cement kiln	Cement Kiln (C ESP		No		5/1/1995	NORMAL WASTE DERIVED FUEL FIRING			3		3 N	
108	205	205C1	Holcim (US) Inc	Holly Hill	Cement kiln	Cement Kiln (C ESP		No		6/1/1992	CoC, MAX COMB TEMP	Y		3		4 CT	
109	206	206C10	Holcim (US) Inc	Holly Hill	Cement kiln	Cement Kiln (C ESP		No		11/1/1999	Max comb temp, max metals, max chlorine, Y			3		1 CT	
110	206	206C5	Holcim (US) Inc	Holly Hill	Cement kiln	Cement Kiln (C ESP		No		5/1/1995	CoC, MAX COMB TEMPS AND MAX MET	Y		3		2 CT	
111	206	206C7	Holcim (US) Inc	Holly Hill	Cement kiln	Cement Kiln (C ESP		No		5/1/1995	NORMAL WASTE DERIVED FUEL FIRING			3		3 N	
112	206	206C1	Holcim (US) Inc	Holly Hill	Cement kiln	Cement Kiln (C ESP		No		7/1/1992	CoC, MAX COMB TEMP	Y		3		4 CT	

Data Summary: Cement Kilns, Total Chlorine

	2	33	34	35	36	37	38	39	40	41	42	43	44	57	58	61	62	63
2	Cond ID	Total Chlorine Stack Emissions (ppmv)														CI SRE		
3	Number	R1		R2		R3		R4		R5		R6		Cond Avg	Campaign	Rating	Comment	
4	ND	Emiss	ND	Emiss	ND	Emiss	ND	Emiss	ND	Emiss	ND	Emiss	ND	Emiss	Number			
63	322C1		18		27		21								22	3	NA	CI not consistently controlled
64	323B2	n test	94		65		94								84	1	NA	CI not consistently controlled
65	323C9	n test	35		40		88								54	1	NA	CI not consistently controlled
66	323B1	azarc	228		149		162								179	1	NA	CI not consistently controlled
67	323B3		36		31		24								31	2	NA	CI not consistently controlled
68	323C1		109		87		27								74	3	NA	CI not consistently controlled
69	403C10		26		31		18		17						23	1	NA	CI not consistently controlled
70	403C11		18		21		18								19			
71	403C12		33		20		19								24			
72	403C3		50	0	58		49		66					0.1	56	2	NA	CI not consistently controlled
73	403C1	2	23	0	97	1	28	2	15					1	41	3	NA	CI not consistently controlled
74	403C2		49		50		66		49						54	3	NA	CI not consistently controlled
75	404C10		30		25		34		56						36	1	NA	CI not consistently controlled
76	404C11		36		60		38								45			
77	404C4		37		57		58		81						58	2	NA	CI not consistently controlled
78	404C1		101		105		85		49		97		21		76	3	NA	CI not consistently controlled
79	404C2		50		58		49		66						56	3	NA	CI not consistently controlled
80	473C3		25		20		31								25	1	NA	CI not consistently controlled
81	300C10		8		11		3		13						9	1	NA	CI not consistently controlled
82	300C11		37		21		40								33	1	NA	CI not consistently controlled
83	300C12		30		5		35								23	1	NA	CI not consistently controlled
84	300C13		12		41		9								21	1	NA	CI not consistently controlled
85	491C1	y repr	2				2		2						2	1	NA	CI not consistently controlled
86	200C10		10		13		21								15	1	NA	CI not consistently controlled
87	200C11	17	7		30		45							2	27	1	NA	CI not consistently controlled
88	680C1	y repr	177		118		165								153			
89	200C10		10		13		21								15	1	NA	CI not consistently controlled
90	200C11	17	7		30		45							2	27	1	NA	CI not consistently controlled
91	681C1	1	104		159		4							1	89			
92	3029C11		0		3		2								2	1	NA	CI not consistently controlled
93	3030C1		18		6		8								11			
94	473C3		25		20		31								25	1	NA	CI not consistently controlled
95	3031C1	t inclu	17		7		1		1						6	1	NA	CI not consistently controlled
96	3031C2	t inclu	4		27		36								22	1	NA	CI not consistently controlled
97	302C10		11		7		9								9	1	NA	CI not consistently controlled
98	302C12		18		3		15								12			
99	302C3	modifi	56		57		53								55	2	NA	CI not consistently controlled
100	302C1	9	13		11		12							3	12	3	NA	CI not consistently controlled
101	473C3		25		20		31								25	1	NA	CI not consistently controlled
102																		
103																		
104	shutdown c																	
105	205C10	0	21	0	28	0	39							0	29	1	NA	CI not consistently controlled
106	205C5		21		28		25								25	2	NA	CI not consistently controlled
107	205C8		2		7		10								6			
108	205C1	3	15	3	17	2	22							2	18	4	NA	CI not consistently controlled
109	206C10	0	151	0	136	0	170							0	152	1	NA	CI not consistently controlled
110	206C5		36		33		36								35	2	NA	CI not consistently controlled
111	206C7		56		55		54								55			
112	206C1		144	1	15	0	82							0	81	4	NA	CI not consistently controlled

Data Summary: Cement Kilns, Total Chlorine

2	64	65	66	67	68	69	70	71	72	73	74	75	82	83	86	87	88	89	90	91	92	93	94	95	96	97	100	105	108	109	110	111	113			
2	Cond ID	Chlorine SRE (%)														Chlorine SRE Used for Evaluation Purposes (%)						Chlorine Feedrate (Cond Avg) ug/dscm														
3	Number	R1	R2	R3	R4	R5	R6	Cond Avg	R1	R2	R3	R4	R5	R6	Cond Avg	HW	Spike	RM	Coal	Total																
4																																				
63	322C1	99.253	98.662	98.748				98.883	NA	NA	NA				NA	2,952,534		76,077		3,028,611																
64	323B2	88.460	91.314	86.947				88.918	NA	NA	NA				NA	1,099,751		53,162		1,152,914																
65	323C9	88.925	88.058	77.072				84.239	NA	NA	NA				NA	459,137		63,975		523,112																
66	323B1	20.558	29.708	29.349				25.993	NA	NA	NA				NA			250,826	116,843	367,670																
67	323B3	98.644	98.814	98.948				98.795	NA	NA	NA				NA	3,726,657		232,542		3,842,928																
68	323C1	96.136 >	95.716 >	98.725				> 96.717	NA	NA	NA				NA	3,445,992		71,470		3,500,100																
69	403C10	98.457	98.127	98.537	98.782			98.460	NA	NA	NA	NA			NA	1,174,248	1,006,798	58,817	2,700	2,280,386																
70	403C11																																			
71	403C12																																			
72	403C3	97.530	97.725	96.914	95.289			96.974	NA	NA	NA	NA			NA																					
73	403C1 >	98.118 >	90.235 >	96.926 >	98.582			> 96.061	NA	NA	NA	NA			NA																					
74	403C2	97.784	97.034	95.770	97.094			97.002	NA	NA	NA	NA			NA																					
75	404C10	96.495	96.823	95.638	94.274			95.728	NA	NA	NA	NA			NA																					
76	404C11																																			
77	404C4 >	96.297 >	95.527 >	95.232 >	95.822			> 95.710	NA	NA	NA	NA			NA																					
78	404C1 >	89.478 >	91.631 >	92.446 >	96.036 >	90.243 >	97.755 >	92.953	NA	NA	NA	NA	NA	NA	NA																					
79	404C2	97.048	96.803	95.786	96.998			97.403	NA	NA	NA	NA			NA																					
80	473C3	96.911	97.020	93.393				96.091	NA	NA	NA	NA			NA																					
81	300C10	99.555	99.213	99.755				99.390	NA	NA	NA	NA			NA																					
82	300C11	97.353	99.018	97.997				98.225	NA	NA	NA	NA			NA																					
83	300C12	96.217	99.343	93.893				96.800	NA	NA	NA	NA			NA																					
84	300C13	98.565	95.370	99.090				97.713	NA	NA	NA	NA			NA																					
85	491C1	99.853		99.868	99.831			99.859	NA		NA	NA			NA																					
86	200C10	99.328	99.116	98.703				99.034	NA	NA	NA	NA			NA																					
87	200C11 >	99.723	98.797	98.163				> 98.911	NA	NA	NA	NA			NA																					
88	680C1																																			
89	200C10	99.328	99.116	98.703				99.034	NA	NA	NA	NA			NA																					
90	200C11 >	99.723	98.797	98.163				> 98.911	NA	NA	NA	NA			NA																					
91	681C1																																			
92	3029C11	99.853	99.343	99.515				99.547	NA	NA	NA	NA			NA																					
93	3030C1																																			
94	473C3	96.911	97.020	93.393				96.091	NA	NA	NA	NA			NA																					
95	3031C1	97.517	99.118	99.815	99.756			99.026	NA	NA	NA	NA			NA																					
96	3031C2	99.466	96.092	94.778				96.766	NA	NA	NA	NA			NA																					
97	302C10	99.063	99.393	99.325				99.260	NA	NA	NA	NA			NA																					
98	302C12																																			
99	302C3	95.484	95.893	97.104				96.273	NA	NA	NA	NA			NA																					
100	302C1	99.335	99.361	99.293				99.336	NA	NA	NA	NA			NA																					
101	473C3	96.911	97.020	93.393				96.091	NA	NA	NA	NA			NA																					
102																																				
103																																				
104	shutdown c																																			
105	205C10 >	96.838 >	96.131 >	94.784				> 95.000	NA	NA	NA	NA			NA																					
106	205C5	96.974	95.124	95.537				95.950	NA	NA	NA	NA			NA																					
107	205C8																																			
108	205C1 >	97.361 >	96.948 >	96.292				> 96.854	NA	NA	NA	NA			NA																					
109	206C10 >	78.368 >	84.394 >	81.112				> 81.414	NA	NA	NA	NA			NA																					
110	206C5	94.156	93.276	95.076				94.285	NA	NA	NA	NA			NA																					
111	206C7																																			
112	206C1 >	81.396 >	97.811 >	85.660				> 88.200	NA	NA	NA	NA			NA																					

Data Summary: Cement Kilns, Total Chlorine

	2	114	115	116	117	118	119	120	121	122	123	124	125	138	139	140	141	142	143	144	145	146	147	148	149	150	151	164	165	166	
2	Cond ID	Chlorine Feedrate Total (ug/dscm)														Chlorine HW + Spike Feedrate MTEC (ug/dscm)														The	
3	Number	R1		R2		R3		R4		R5		R6		Cond Avg		R1		R2		R3		R4		R5		R6		Cond Avg		HW	
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
63	322C1		3,738,516		3,076,635		2,583,814		3,014,989		2,996,068		2,761,643		3,028,611	0.0	3678784	0	2963412	0	2470475	0	2957883	0	2939250	0	2705402	0.0	2952534	141.8	
64	323B2		1,231,478		1,134,093		1,093,169								1,152,914	0.0	1165667	0	1075897	0	1057690							0.0	1099751	166.7	
65	323C9		484,044		501,454		583,836								523,112	0.0	439448	0	461665	0	476298							0.0	459137	170.0	
66	323B1		434,177		320,552		348,280								367,670															0.0	
67	323B3		4,052,780		3,947,119		3,528,886								3,842,928	0.0	3916241	0	3813858	0	3449873							0.0	3726657	200.3	
68	323C1		4,267,369	2	3,138,834	2	3,330,379	2	3,568,750	2	3,281,100	2	3,414,170	2	3,500,100	0.0	4232864	0	3103038	0	3296510	0	3496409	0	3206544	0	3340584	0.0	3445992	204.0	
69	403C10		2,577,018		2,493,626		1,896,147		2,154,215						2,280,386	0.0	2475303	0	2395687	0	1798447	0	2054163					0.0	2181046	233.8	
70	403C11																													0.0	
71	403C12																													0.0	
72	403C3		2,979,288		2,988,852		2,724,686		2,215,091						2,726,980	0.0	2979288	0	2988852	0	2724686	0	2215091					0.0	2726980	406.9	
73	403C1	18	2,202,856	21	1,920,355	23	1,784,892	22	1,979,045					21	1,971,787	0.0	1778330	0	1482013	0	1353342	0	1515148					0.0	1532208	222.3	
74	403C2		3,347,846		2,579,809		2,380,260		2,551,182						2,714,774	0.0	2771225	0	2009489	0	1853617	0	2004500					0.0	2159708	221.3	
75	404C10		1,292,938		1,177,102		1,184,181		1,480,141						1,282,454	0.0	1162895	0	1027119	0	1067295	0	1361076					0.0	1153480	248.3	
76	404C11																													0.0	
77	404C4	5	1,595,323	4	2,013,234	4	1,942,906	2	3,028,042					4	2,144,876	0.0	1532731	0	1945071	0	1878253	0	2954265					0.0	1385054	280.0	
78	404C1	25	1,945,951	22	2,444,335	24	2,228,756	20	2,328,971	22	1,913,950	23	1,851,678	23	2,118,940	0.0	1460740	0	1906808	0	1701760	0	1862104	0	1502629	0	1423800	0.0	1642973	235.6	
79	404C2		2,593,324		2,749,439		1,771,782		3,356,020						2,617,641	0.0	2002910	0	2224673	0	1213563	0	2783360					0.0	2056126	285.3	
80	473C3		1,227,552		1,005,294		719,163								984,003	0.0	1227552	0	1005294	0	719163							0.0	984003	190.5	
81	300C10		2,747,168		2,176,278		2,028,950								2,296,207	0.0	2717490	0	2139031	0	2008063							0.0	2267344	189.0	
82	300C11		2,122,751		3,296,224		3,000,150								2,791,445	0.0	2102365	0	3277163	0	2986020							0.0	2773016	218.6	
83	300C12		1,197,464		1,224,090		861,942								1,103,934	0.0	1179743	0	1200407	0	840958							0.0	1073802	173.7	
84	300C13		1,232,217		1,340,357		1,508,143								1,362,043	0.0	1207569	0	1305570	0	1476750							0.0	1322563	194.6	
85	491C1		1,996,859		2,559,813		2,241,621		2,040,621						2,209,729	0.0	1973884	0	2533289	0	2208754	0	2012024					0.0	2181988	228.8	
86	200C10		2,223,419		2,145,131		2,470,555								2,275,412	0.0	2141691	0	2058903	0	2362768							0.0	2183680	168.3	
87	200C11		3,923,336		3,770,502		3,683,368								3,790,650	0.0	3848312	0	3694760	0	3622784							0.0	3720324	52.9	
88	680C1																													0.0	
89	200C10		2,223,419		2,145,131		2,470,555								2,275,412	0.0	2141691	0	2058903	0	2362768							0.0	2183680	168.3	
90	200C11		3,923,336		3,770,502		3,683,368								3,790,650	0.0	3848312	0	3694760	0	3622784							0.0	3720324	52.9	
91	681C1																													0.0	
92	3029C11		497,220		637,817		636,353								589,110	0.0	461662	0	604143	0	600684							0.0	554160	273.2	
93	3030C1																												0.0	591756	0.0
94	473C3		1,227,552		1,005,294		719,163								984,003	0.0	1227552	0	1005294	0	719163							0.0	984003	0.0	
95	3031C1		1,007,398		1,168,704		983,937		870,620						1,007,665															0.0	
96	3031C2		1,022,857		1,043,522		1,036,442								1,034,274															0.0	
97	302C10		1,842,781		1,807,932		1,918,076								1,855,323	0.0	1769199	0	1752233	0	1873693							0.0	1797265	190.7	
98	302C12																													0.0	
99	302C3		1,896,705		2,098,823		2,762,976								2,252,835	0.0	1896705	0	1959061	0	2629310							0.0	2161692	165.3	
100	302C1		2,938,790		2,701,435		2,529,183		2,925,750		2,653,179		2,710,399		2,743,123	0.0	2748465	0	2605772	0	2330078	0	2535733	0	2459507	0	2610793	0.0	2548391	179.5	
101	473C3		1,227,552		1,005,294		719,163								984,003	0.0	1227552	0	1005294	0	719163							0.0	984003	190.5	
102																															
103																															
104	shutdown c																														
105	205C10		1,020,355		1,085,807		1,142,899								892,523															208.9	
106	205C5		1,048,833		871,548		857,864								926,082															163.0	
107	205C8																													0.0	
108	205C1		853,281		833,326		908,014								864,874															173.0	
109	206C10		1,059,486		1,318,256		1,361,085								1,241,056															361.5	
110	206C5		939,452		748,904		1,109,549								932,635															324.3	
111	206C7																													0.0	
112	206C1	5	1,238,037	6	1,122,843	7	933,392							6	1,098,091															252.1	

Data Summary: Cement Kilns, Total Chlorine

	2	167	168	169	170	171	172	173			174	175	176	177	178	179	180	181	182	183	184	185	188	189	190	191	192
2	Cond ID	Thermal Feed Cond Avg (MMBtu/hr)				Thermal Emission Rating			Chlorine HW Thermal Emiss (lb/10 ⁹ Btu)																		
3	Number	Coal	MF	Total	Est Tot	Camp No	Rating	Rating Comments	R1	R2	R3	R4	R5	R6	Cond Avg	R1											
4																											
63	322C1			141.8	210.6	2	CT	CT vs IB rating even though SRE is rated NA	25.74	48.69	44.07													39.50		3.45	
64	323B2			166.7	211.9	1	NA	Demo testing	130.78	102.54	157.80													130.37		1.13	
65	323C9			170.0	230.6	1	NA	Demo testing	56.97	59.23	129.04													81.75		0.51	
66	323B1	110.4		110.4	232.9																						
67	323B3			200.3	239.6	2	CT	CT vs IB rating even though SRE is rated NA	55.68	47.47	36.92													46.69		4.11	
68	323C1			204.0	257.0	3	CT	CT vs IB rating even though SRE is rated NA	163.35	155.67	47.68													122.23		4.23	
69	403C10	55.9	26.2	317.8	315.2	1	CT	CT vs IB rating even though SRE is rated NA	42.20	50.91	33.10	28.36												38.64		2.73	
70	403C11																										
71	403C12																										
72	403C3	58.2		465.1	323.9	2	CT	CT vs IB rating even though SRE is rated NA	42.78	0	43.85	57.30	81.24									0.1	56.29			1.73	
73	403C1	106.9		329.1	303.0	3	CT	CT vs IB rating even though SRE is rated NA	2	46.63	0	185.45	1	50.55	2	25.28						1	76.98			2.48	
74	403C2	77.0		298.3	278.2	3	IB	CT vs IB rating even though SRE is rated NA	72.51	61.28	80.57	56.98												67.83		3.27	
75	404C10	97.4	41.2	384.4	450.1	1	CT	CT vs IB rating even though SRE is rated NA	57.04	50.68	72.94	123.47												76.03		1.63	
76	404C11																										
77	404C4	126.0		402.0	464.2	2	CT	CT vs IB rating even though SRE is rated NA	97.45	120.85	134.69	149.76												125.68		2.63	
78	404C1	181.8		417.4	456.9	3	CT	CT vs IB rating even though SRE is rated NA	232.35	261.42	201.36	126.78	247.71	55.34										187.49		2.21	
79	404C2	149.3		434.5	408.5	3	IB	CT vs IB rating even though SRE is rated NA	58.55	79.93	68.36	133.54												85.10		1.98	
80	473C3			190.5	237.4																						
81	300C10			189.0	295.9	1	NA	Data in lieu	16.04	21.45	7.57													15.02		3.60	
82	300C11		1.9	220.5	298.9	1	NA	Data in lieu	65.46	34.19	62.85													54.17		2.47	
83	300C12			173.7	285.9	1	NA	Data in lieu	67.19	11.45	75.37													51.34		1.78	
84	300C13		19.0	213.7	294.2	1	NA	Data in lieu	23.92	71.83	14.59													36.78		1.67	
85	491C1		25.7	242.3	343.9	2	CT		3.44		3.88	4.43												3.92		2.34	
86	200C10	15.2		185.8	211.2	1	NA	Data in lieu	13.74	17.48	40.19													23.80		2.04	
87	200C11	15.2		68.1	126.9	1	NA	Data in lieu	17	13.51	94.30	258.30										2	122.04			4.88	
88	680C1																										
89	200C10	15.2		185.8	211.2	1	NA	Data in lieu	13.74	17.48	40.19													23.80		2.04	
90	200C11	15.2		68.1	126.9	1	NA	Data in lieu	17	13.51	94.30	258.30										2	122.04			4.88	
91	681C1																										
92	3029C11	496.6		772.2	1,177.9	1	CT	CT vs IB rating even though SRE is rated NA	3.03	13.90	10.06													9.00		2.06	
93	3030C1																										
94	473C3			190.5	237.4																						
95	3031C1	343.2		326.9	1,037.5																						
96	3031C2			479.4	960.8																						
97	302C10			190.7	262.7	1	NA	Data in lieu	19.24	12.43	14.75													15.47		2.05	
98	302C12			184.3	257.8																						
99	302C3			165.3	141.1	2	NA	Data in lieu	63.00	63.19	47.09													57.76		1.40	
100	302C1			179.5	195.6	3	NA	Data in lieu	9	16.63	15.58	15.43										3	15.88			2.50	
101	473C3			190.5	237.4																						
102																											
103																											
104	Shutdown c																										
105	205C10	100.5		309.0	437.7	1	CT	CT vs IB rating even though SRE is rated NA	53.53	51.92	92.24													65.89		1.69	
106	205C5	146.3		309.3	390.6	2	CT	CT vs IB rating even though SRE is rated NA	65.82	82.98	75.97													74.92		2.18	
107	205C8																										
108	205C1	74.2		247.2	407.7	3	CT	CT vs IB rating even though SRE is rated NA	37.67	48.51	60.86													49.01		1.43	
109	206C10	221.1		582.7	749.4	1	CT	CT vs IB rating even though SRE is rated NA	292.94	269.91	380.12													314.32		1.35	
110	206C5	204.7		529.0	717.2	2	CT	CT vs IB rating even though SRE is rated NA	94.53	104.00	101.07													99.87		1.62	
111	206C7																										
112	206C1	206.6		458.8	622.5	3	CT	CT vs IB rating even though SRE is rated NA	431.85	45.80	261.34													246.33		2.32	

Data Summary: Cement Kilns, Total Chlorine

	2	193	194	195	196	197	198	199	200	201	204	205
2	Cond ID	Chlorine in HW (lb/MMBtu)										
3	Number	R2	R3	R4	R5	R6	Cond Avg					
4												
63	322C1	3.64		3.52								3.53
64	323B2	1.18		1.21								1.17
65	323C9	0.50		0.56								0.52
66	323B1											
67	323B3	4.00		3.51								3.87
68	323C1	3.63		3.74								3.87
69	403C10	2.72		2.26		2.33						2.51
70	403C11											
71	403C12											
72	403C3	1.93		1.86		1.72						1.81
73	403C1	1.90		1.64		1.78						1.95
74	403C2	2.07		1.90		1.96						2.30
75	404C10	1.60		1.67		2.16						1.76
76	404C11											
77	404C4	2.70		2.82		3.58						2.94
78	404C1	3.12		2.67		3.20		2.54		2.46		2.70
79	404C2	2.50		1.62		4.45						2.64
80	473C3											
81	300C10	2.73		3.09								3.14
82	300C11	3.48		3.14								3.03
83	300C12	1.74		1.23								1.58
84	300C13	1.55		1.60								1.61
85	491C1			2.93		2.63						2.63
86	200C10	1.98		3.10								2.37
87	200C11	7.84		14.06								8.93
88	680C1											
89	200C10	1.98		3.10								2.37
90	200C11	7.84		14.06								8.93
91	681C1											
92	3029C11	2.12		2.08								2.08
93	3030C1											
94	473C3											
95	3031C1											
96	3031C2											
97	302C10	2.05		2.18								2.09
98	302C12											
99	302C3	1.54		1.63								1.52
100	302C1	2.44		2.18								2.37
101	473C3											
102												
103												
104	shutdown c											
105	205C10	1.34		1.77								1.60
106	205C5	1.70		1.70								1.86
107	205C8											
108	205C1	1.59		1.64								1.55
109	206C10	1.73		2.01								1.70
110	206C5	1.55		2.05								1.74
111	206C7											
112	206C1	2.09		1.82								2.08