

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ASH GROVE CEMENT COMPANY
 2. STATE: KS
 3. CITY: CHANUTE
 4. EP ID: 401 DEVICE NAME: KILN NO. 1

EPA KSD031203318
 SYSTEM TYPE: CEMENT KILN

REGION: 7
 APC SYSTEM: ESP

5. Type: CONTROLLED

6. Description: EMISSIONS Process Group: WET KILN Location: STACK Phase: GAS

7. Category: Dioxin & Furan

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
4D 2378	401C1R1	ND 1.18e-2 ng/dscm 7%O2	2.56e-9 lbs/hr	CE7%O2
4D 2378	401C1R2	3.79e-2 ng/dscm 7%O2	8.46e-9 lbs/hr	CE7%O2
4D 2378	401C1R3	3.81e-2 ng/dscm 7%O2	7.99e-9 lbs/hr	CE7%O2
4D 2378	401C1R4	3.15e-2 ng/dscm 7%O2	6.85e-9 lbs/hr	CE7%O2
4D 2378	401C3R1	ND 2.94e-3 ng/dscm 7%O2	7.11e-10 lbs/hr	CE7%O2
4D 2378	401C3R2	2 2.42e-3 ng/dscm 7%O2	5.87e-10 lbs/hr	CE7%O2
4D 2378	401C3R3	ND 2.62e-3 ng/dscm 7%O2	9.74e-10 lbs/hr	CE7%O2
4D 2378	401C4R1	ND 1.83e-3 ng/dscm 7%O2	3.45e-10 lbs/hr	CE7%O2
4D 2378	401C4R2	ND 4.08e-3 ng/dscm 7%O2	6.89e-10 lbs/hr	CE7%O2
4D 2378	401C4R3	2 1.38e-3 ng/dscm 7%O2	2.81e-10 lbs/hr	CE7%O2
4D 2378	401C4R4	2 1.54e-3 ng/dscm 7%O2	2.61e-10 lbs/hr	CE7%O2
4D 2378	401C5R1	2 2.20e-3 ng/dscm 7%O2	5.75e-10 lbs/hr	CE7%O2
4D 2378	401C5R2	2 2.22e-3 ng/dscm 7%O2	5.83e-10 lbs/hr	CE7%O2
4D 2378	401C5R3	ND 2.55e-3 ng/dscm 7%O2	5.65e-10 lbs/hr	CE7%O2
4D 2378	401C5R4	ND 2.00e-3 ng/dscm 7%O2	4.43e-10 lbs/hr	CE7%O2
4D Other	401C1R1	7.08e+0 ng/dscm 7%O2	1.54e-6 lbs/hr	OCE
4D Other	401C1R2	1.55e+1 ng/dscm 7%O2	3.47e-6 lbs/hr	OCE
4D Other	401C1R3	1.34e+1 ng/dscm 7%O2	2.81e-6 lbs/hr	OCE
4D Other	401C1R4	2.03e+1 ng/dscm 7%O2	4.42e-6 lbs/hr	OCE
4D Other	401C3R1	1.61e-1 ng/dscm 7%O2	3.89e-8 lbs/hr	OCE
4D Other	401C3R2	1.51e-1 ng/dscm 7%O2	3.66e-8 lbs/hr	OCE
4D Other	401C3R3	1.65e-1 ng/dscm 7%O2	6.14e-8 lbs/hr	OCE
4D Other	401C4R1	6.69e-2 ng/dscm 7%O2	1.26e-8 lbs/hr	OCE
4D Other	401C4R2	2.14e-2 ng/dscm 7%O2	3.62e-9 lbs/hr	OCE
4D Other	401C4R3	6.75e-2 ng/dscm 7%O2	1.38e-8 lbs/hr	OCE
4D Other	401C4R4	4.46e-2 ng/dscm 7%O2	7.58e-9 lbs/hr	OCE
4D Other	401C5R1	2.00e-1 ng/dscm 7%O2	5.23e-8 lbs/hr	OCE
4D Other	401C5R2	8.21e-2 ng/dscm 7%O2	2.16e-8 lbs/hr	OCE
4D Other	401C5R3	8.40e-2 ng/dscm 7%O2	1.86e-8 lbs/hr	OCE
4D Other	401C5R4	5.31e-2 ng/dscm 7%O2	1.17e-8 lbs/hr	OCE
4D Total	401C1R1	7.09e+0 ng/dscm 7%O2	1.54e-6 lbs/hr	CE7%O2
4D Total	401C1R2	1.56e+1 ng/dscm 7%O2	3.48e-6 lbs/hr	CE7%O2
4D Total	401C1R3	1.34e+1 ng/dscm 7%O2	2.81e-6 lbs/hr	CE7%O2
4D Total	401C1R4	2.03e+1 ng/dscm 7%O2	4.43e-6 lbs/hr	CE7%O2
4D Total	401C3R1	1.64e-1 ng/dscm 7%O2	3.96e-8 lbs/hr	CE7%O2
4D Total	401C3R2	1.54e-1 ng/dscm 7%O2	3.72e-8 lbs/hr	CE7%O2
4D Total	401C3R3	1.67e-1 ng/dscm 7%O2	6.23e-8 lbs/hr	CE7%O2
4D Total	401C4R1	6.87e-2 ng/dscm 7%O2	1.29e-8 lbs/hr	CE7%O2
4D Total	401C4R2	2.55e-2 ng/dscm 7%O2	4.31e-9 lbs/hr	CE7%O2
4D Total	401C4R3	6.89e-2 ng/dscm 7%O2	1.41e-8 lbs/hr	CE7%O2
4D Total	401C4R4	4.61e-2 ng/dscm 7%O2	7.84e-9 lbs/hr	CE7%O2
4D Total	401C5R1	2.03e-1 ng/dscm 7%O2	5.29e-8 lbs/hr	CE7%O2
4D Total	401C5R2	8.43e-2 ng/dscm 7%O2	2.22e-8 lbs/hr	CE7%O2
4D Total	401C5R3	8.65e-2 ng/dscm 7%O2	1.92e-8 lbs/hr	CE7%O2
4D Total	401C5R4	5.51e-2 ng/dscm 7%O2	1.22e-8 lbs/hr	CE7%O2
4F 2378	401C1R1	1.02e+0 ng/dscm 7%O2	2.22e-7 lbs/hr	CE7%O2
4F 2378	401C1R2	4.81e+0 ng/dscm 7%O2	1.07e-6 lbs/hr	CE7%O2
4F 2378	401C1R3	6.05e+0 ng/dscm 7%O2	1.27e-6 lbs/hr	CE7%O2
4F 2378	401C1R4	8.25e+0 ng/dscm 7%O2	1.80e-6 lbs/hr	CE7%O2
4F 2378	401C3R1	1.89e-1 ng/dscm 7%O2	4.57e-8 lbs/hr	CE7%O2
4F 2378	401C3R2	1.33e-1 ng/dscm 7%O2	3.23e-8 lbs/hr	CE7%O2
4F 2378	401C3R3	1.83e-1 ng/dscm 7%O2	6.82e-8 lbs/hr	CE7%O2
4F 2378	401C4R1	1.51e-1 ng/dscm 7%O2	2.84e-8 lbs/hr	CE7%O2
4F 2378	401C4R2	1.73e-1 ng/dscm 7%O2	2.93e-8 lbs/hr	CE7%O2
4F 2378	401C4R3	1.52e-1 ng/dscm 7%O2	3.09e-8 lbs/hr	CE7%O2
4F 2378	401C4R4	1.18e-1 ng/dscm 7%O2	2.00e-8 lbs/hr	CE7%O2
4F 2378	401C5R1	2.25e-1 ng/dscm 7%O2	5.86e-8 lbs/hr	CE7%O2

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EPA KSD031203318
 SYSTEM TYPE: CEMENT KILN

APC SYSTEM: ESP

REGION: 7

4F 2378	401C5R2	2.04e-1	ng/dscm 7%O2	5.36e-8	lbs/hr	CE7%O2	
4F 2378	401C5R3	2.34e-1	ng/dscm 7%O2	5.19e-8	lbs/hr	CE7%O2	
4F 2378	401C5R4	1.40e-1	ng/dscm 7%O2	3.10e-8	lbs/hr	CE7%O2	
4F Other	401C1R1	4.92e+0	ng/dscm 7%O2	1.07e-6	lbs/hr	OCE	
4F Other	401C1R2	2.15e+1	ng/dscm 7%O2	4.80e-6	lbs/hr	OCE	
4F Other	401C1R3	2.83e+1	ng/dscm 7%O2	5.93e-6	lbs/hr	OCE	
4F Other	401C1R4	3.81e+1	ng/dscm 7%O2	8.31e-6	lbs/hr	OCE	
4F Other	401C3R1	1.03e+0	ng/dscm 7%O2	2.49e-7	lbs/hr	OCE	
4F Other	401C3R2	7.15e-1	ng/dscm 7%O2	1.73e-7	lbs/hr	OCE	
4F Other	401C3R3	-1.83e-1	ng/dscm 7%O2	-6.82e-8	lbs/hr	OCE	
4F Other	401C4R1	7.65e-1	ng/dscm 7%O2	1.44e-7	lbs/hr	OCE	
4F Other	401C4R2	9.48e-1	ng/dscm 7%O2	1.60e-7	lbs/hr	OCE	
4F Other	401C4R3	8.13e-1	ng/dscm 7%O2	1.66e-7	lbs/hr	OCE	
4F Other	401C4R4	6.51e-1	ng/dscm 7%O2	1.11e-7	lbs/hr	OCE	
4F Other	401C5R1	1.23e+0	ng/dscm 7%O2	3.21e-7	lbs/hr	OCE	
4F Other	401C5R2	9.49e-1	ng/dscm 7%O2	2.50e-7	lbs/hr	OCE	
4F Other	401C5R3	1.29e+0	ng/dscm 7%O2	2.87e-7	lbs/hr	OCE	
4F Other	401C5R4	7.11e-1	ng/dscm 7%O2	1.57e-7	lbs/hr	OCE	
4F Total	401C1R1	5.95e+0	ng/dscm 7%O2	1.29e-6	lbs/hr	CE7%O2	
4F Total	401C1R2	2.63e+1	ng/dscm 7%O2	5.88e-6	lbs/hr	CE7%O2	
4F Total	401C1R3	3.43e+1	ng/dscm 7%O2	7.20e-6	lbs/hr	CE7%O2	
4F Total	401C1R4	4.64e+1	ng/dscm 7%O2	1.01e-5	lbs/hr	CE7%O2	
4F Total	401C3R1	1.22e+0	ng/dscm 7%O2	2.95e-7	lbs/hr	CE7%O2	
4F Total	401C3R2	8.49e-1	ng/dscm 7%O2	2.05e-7	lbs/hr	CE7%O2	
4F Total	401C3R3	2	0.00e+0	0.00e+0			
4F Total	401C4R1	9.17e-1	ng/dscm 7%O2	1.72e-7	lbs/hr	CE7%O2	
4F Total	401C4R2	1.12e+0	ng/dscm 7%O2	1.90e-7	lbs/hr	CE7%O2	
4F Total	401C4R3	9.65e-1	ng/dscm 7%O2	1.97e-7	lbs/hr	CE7%O2	
4F Total	401C4R4	7.69e-1	ng/dscm 7%O2	1.31e-7	lbs/hr	CE7%O2	
4F Total	401C5R1	1.45e+0	ng/dscm 7%O2	3.79e-7	lbs/hr	CE7%O2	
4F Total	401C5R2	1.15e+0	ng/dscm 7%O2	3.03e-7	lbs/hr	CE7%O2	
4F Total	401C5R3	1.53e+0	ng/dscm 7%O2	3.39e-7	lbs/hr	CE7%O2	
4F Total	401C5R4	8.52e-1	ng/dscm 7%O2	1.88e-7	lbs/hr	CE7%O2	
5D 12378	401C1R1	5.91e-2	ng/dscm 7%O2	1.28e-8	lbs/hr	CE7%O2	
5D 12378	401C1R2	1.25e-1	ng/dscm 7%O2	2.79e-8	lbs/hr	CE7%O2	
5D 12378	401C1R3	1.41e-1	ng/dscm 7%O2	2.96e-8	lbs/hr	CE7%O2	
5D 12378	401C1R4	3.22e-1	ng/dscm 7%O2	7.02e-8	lbs/hr	CE7%O2	
5D 12378	401C3R1	2	2.94e-3	ng/dscm 7%O2	7.11e-10	lbs/hr	CE7%O2
5D 12378	401C3R2	2	1.21e-2	ng/dscm 7%O2	2.93e-9	lbs/hr	CE7%O2
5D 12378	401C3R3	2	5.23e-3	ng/dscm 7%O2	1.95e-9	lbs/hr	CE7%O2
5D 12378	401C4R1	ND	4.12e-3	ng/dscm 7%O2	7.76e-10	lbs/hr	CE7%O2
5D 12378	401C4R2	ND	1.02e-2	ng/dscm 7%O2	1.72e-9	lbs/hr	CE7%O2
5D 12378	401C4R3		2.76e-3	ng/dscm 7%O2	5.62e-10	lbs/hr	CE7%O2
5D 12378	401C4R4	2	1.54e-3	ng/dscm 7%O2	2.61e-10	lbs/hr	CE7%O2
5D 12378	401C5R1		8.81e-3	ng/dscm 7%O2	2.30e-9	lbs/hr	CE7%O2
5D 12378	401C5R2	2	4.44e-3	ng/dscm 7%O2	1.17e-9	lbs/hr	CE7%O2
5D 12378	401C5R3	2	2.55e-3	ng/dscm 7%O2	5.65e-10	lbs/hr	CE7%O2
5D 12378	401C5R4	2	2.00e-3	ng/dscm 7%O2	4.43e-10	lbs/hr	CE7%O2
5D Other	401C1R1	1.17e+1	ng/dscm 7%O2	2.53e-6	lbs/hr	OCE	
5D Other	401C1R2	2.00e+1	ng/dscm 7%O2	4.46e-6	lbs/hr	OCE	
5D Other	401C1R3	1.86e+1	ng/dscm 7%O2	3.90e-6	lbs/hr	OCE	
5D Other	401C1R4	3.38e+1	ng/dscm 7%O2	7.35e-6	lbs/hr	OCE	
5D Other	401C3R1	2.07e-1	ng/dscm 7%O2	5.01e-8	lbs/hr	OCE	
5D Other	401C3R2	1.66e-1	ng/dscm 7%O2	4.01e-8	lbs/hr	OCE	
5D Other	401C3R3	2.83e-1	ng/dscm 7%O2	1.05e-7	lbs/hr	OCE	
5D Other	401C4R1	8.30e-2	ng/dscm 7%O2	1.56e-8	lbs/hr	OCE	
5D Other	401C4R2	1.53e-2	ng/dscm 7%O2	2.58e-9	lbs/hr	OCE	
5D Other	401C4R3	4.32e-2	ng/dscm 7%O2	8.81e-9	lbs/hr	OCE	
5D Other	401C4R4	4.46e-2	ng/dscm 7%O2	7.58e-9	lbs/hr	OCE	
5D Other	401C5R1	3.39e-1	ng/dscm 7%O2	8.85e-8	lbs/hr	OCE	
5D Other	401C5R2	1.46e-1	ng/dscm 7%O2	3.85e-8	lbs/hr	OCE	
5D Other	401C5R3	1.04e-1	ng/dscm 7%O2	2.31e-8	lbs/hr	OCE	
5D Other	401C5R4	6.81e-2	ng/dscm 7%O2	1.51e-8	lbs/hr	OCE	

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REGION: 7

5D Total	401C1R1	1.17e+1	ng/dscm	7%O2	2.55e-6	lbs/hr	CE7%O2	
5D Total	401C1R2	2.01e+1	ng/dscm	7%O2	4.49e-6	lbs/hr	CE7%O2	
5D Total	401C1R3	1.87e+1	ng/dscm	7%O2	3.93e-6	lbs/hr	CE7%O2	
5D Total	401C1R4	3.41e+1	ng/dscm	7%O2	7.42e-6	lbs/hr	CE7%O2	
5D Total	401C3R1	2.10e-1	ng/dscm	7%O2	5.08e-8	lbs/hr	CE7%O2	
5D Total	401C3R2	1.78e-1	ng/dscm	7%O2	4.30e-8	lbs/hr	CE7%O2	
5D Total	401C3R3	2.88e-1	ng/dscm	7%O2	1.07e-7	lbs/hr	CE7%O2	
5D Total	401C4R1	8.71e-2	ng/dscm	7%O2	1.64e-8	lbs/hr	CE7%O2	
5D Total	401C4R2	2.55e-2	ng/dscm	7%O2	4.31e-9	lbs/hr	CE7%O2	
5D Total	401C4R3	4.59e-2	ng/dscm	7%O2	9.37e-9	lbs/hr	CE7%O2	
5D Total	401C4R4	4.61e-2	ng/dscm	7%O2	7.84e-9	lbs/hr	CE7%O2	
5D Total	401C5R1	3.48e-1	ng/dscm	7%O2	9.08e-8	lbs/hr	CE7%O2	
5D Total	401C5R2	1.51e-1	ng/dscm	7%O2	3.97e-8	lbs/hr	CE7%O2	
5D Total	401C5R3	1.07e-1	ng/dscm	7%O2	2.37e-8	lbs/hr	CE7%O2	
5D Total	401C5R4	7.01e-2	ng/dscm	7%O2	1.55e-8	lbs/hr	CE7%O2	
5F 12378	401C1R1	ND	5.12e-2	ng/dscm	7%O2	1.11e-8	lbs/hr	CE7%O2
5F 12378	401C1R2	ND	2.76e-1	ng/dscm	7%O2	6.17e-8	lbs/hr	CE7%O2
5F 12378	401C1R3	ND	3.05e-1	ng/dscm	7%O2	6.39e-8	lbs/hr	CE7%O2
5F 12378	401C1R4		1.03e+0	ng/dscm	7%O2	2.24e-7	lbs/hr	CE7%O2
5F 12378	401C3R1	2	2.10e-2	ng/dscm	7%O2	5.08e-9	lbs/hr	CE7%O2
5F 12378	401C3R2	2	8.08e-3	ng/dscm	7%O2	1.96e-9	lbs/hr	CE7%O2
5F 12378	401C3R3	2	1.57e-2	ng/dscm	7%O2	5.85e-9	lbs/hr	CE7%O2
5F 12378	401C4R1		1.83e-2	ng/dscm	7%O2	3.45e-9	lbs/hr	CE7%O2
5F 12378	401C4R2	2	1.53e-2	ng/dscm	7%O2	2.58e-9	lbs/hr	CE7%O2
5F 12378	401C4R3		1.38e-2	ng/dscm	7%O2	2.81e-9	lbs/hr	CE7%O2
5F 12378	401C4R4		1.03e-2	ng/dscm	7%O2	1.74e-9	lbs/hr	CE7%O2
5F 12378	401C5R1	2	2.20e-2	ng/dscm	7%O2	5.75e-9	lbs/hr	CE7%O2
5F 12378	401C5R2		2.22e-2	ng/dscm	7%O2	5.83e-9	lbs/hr	CE7%O2
5F 12378	401C5R3		2.04e-2	ng/dscm	7%O2	4.52e-9	lbs/hr	CE7%O2
5F 12378	401C5R4		1.50e-2	ng/dscm	7%O2	3.32e-9	lbs/hr	CE7%O2
5F 23478	401C1R1		2.56e-1	ng/dscm	7%O2	5.55e-8	lbs/hr	CE7%O2
5F 23478	401C1R2		1.06e+0	ng/dscm	7%O2	2.37e-7	lbs/hr	CE7%O2
5F 23478	401C1R3		9.90e-1	ng/dscm	7%O2	2.08e-7	lbs/hr	CE7%O2
5F 23478	401C1R4		2.62e+0	ng/dscm	7%O2	5.70e-7	lbs/hr	CE7%O2
5F 23478	401C3R1	2	2.52e-2	ng/dscm	7%O2	6.10e-9	lbs/hr	CE7%O2
5F 23478	401C3R2		2.02e-2	ng/dscm	7%O2	4.89e-9	lbs/hr	CE7%O2
5F 23478	401C3R3		2.62e-2	ng/dscm	7%O2	9.74e-9	lbs/hr	CE7%O2
5F 23478	401C4R1		2.29e-2	ng/dscm	7%O2	4.31e-9	lbs/hr	CE7%O2
5F 23478	401C4R2		2.55e-2	ng/dscm	7%O2	4.31e-9	lbs/hr	CE7%O2
5F 23478	401C4R3		1.84e-2	ng/dscm	7%O2	3.75e-9	lbs/hr	CE7%O2
5F 23478	401C4R4	2	1.54e-2	ng/dscm	7%O2	2.61e-9	lbs/hr	CE7%O2
5F 23478	401C5R1		3.52e-2	ng/dscm	7%O2	9.20e-9	lbs/hr	CE7%O2
5F 23478	401C5R2		3.55e-2	ng/dscm	7%O2	9.33e-9	lbs/hr	CE7%O2
5F 23478	401C5R3		2.55e-2	ng/dscm	7%O2	5.65e-9	lbs/hr	CE7%O2
5F 23478	401C5R4		2.00e-2	ng/dscm	7%O2	4.43e-9	lbs/hr	CE7%O2
5F Other	401C1R1		1.03e+0	ng/dscm	7%O2	2.24e-7	lbs/hr	OCE
5F Other	401C1R2		5.93e+0	ng/dscm	7%O2	1.33e-6	lbs/hr	OCE
5F Other	401C1R3		7.04e+0	ng/dscm	7%O2	1.48e-6	lbs/hr	OCE
5F Other	401C1R4		3.08e+1	ng/dscm	7%O2	6.71e-6	lbs/hr	OCE
5F Other	401C3R1		2.19e-1	ng/dscm	7%O2	5.28e-8	lbs/hr	OCE
5F Other	401C3R2		1.70e-1	ng/dscm	7%O2	4.11e-8	lbs/hr	OCE
5F Other	401C3R3		2.36e-1	ng/dscm	7%O2	8.77e-8	lbs/hr	OCE
5F Other	401C4R1		2.15e-1	ng/dscm	7%O2	4.05e-8	lbs/hr	OCE
5F Other	401C4R2		2.39e-1	ng/dscm	7%O2	4.05e-8	lbs/hr	OCE
5F Other	401C4R3		2.11e-1	ng/dscm	7%O2	4.31e-8	lbs/hr	OCE
5F Other	401C4R4		1.49e-1	ng/dscm	7%O2	2.53e-8	lbs/hr	OCE
5F Other	401C5R1		3.48e-1	ng/dscm	7%O2	9.08e-8	lbs/hr	OCE
5F Other	401C5R2		3.15e-1	ng/dscm	7%O2	8.28e-8	lbs/hr	OCE
5F Other	401C5R3		2.90e-1	ng/dscm	7%O2	6.44e-8	lbs/hr	OCE
5F Other	401C5R4		1.70e-1	ng/dscm	7%O2	3.77e-8	lbs/hr	OCE
5F Total	401C1R1		1.34e+0	ng/dscm	7%O2	2.90e-7	lbs/hr	CE7%O2
5F Total	401C1R2		7.27e+0	ng/dscm	7%O2	1.62e-6	lbs/hr	CE7%O2
5F Total	401C1R3		8.34e+0	ng/dscm	7%O2	1.75e-6	lbs/hr	CE7%O2

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ASH GROVE CEMENT COMPANY
 2. STATE: KS
 3. CITY: CHANUTE
 4. EP ID: 401 DEVICE NAME: KILN NO. 1

EPA KSD031203318
 SYSTEM TYPE: CEMENT KILN

APC SYSTEM: ESP

REGION: 7

5F Total	401C1R4		3.45e+1	ng/dscm 7%O2	7.50e-6	lbs/hr	CE7%O2
5F Total	401C3R1		2.65e-1	ng/dscm 7%O2	6.40e-8	lbs/hr	CE7%O2
5F Total	401C3R2		1.98e-1	ng/dscm 7%O2	4.79e-8	lbs/hr	CE7%O2
5F Total	401C3R3		2.77e-1	ng/dscm 7%O2	1.03e-7	lbs/hr	CE7%O2
5F Total	401C4R1		2.57e-1	ng/dscm 7%O2	4.83e-8	lbs/hr	CE7%O2
5F Total	401C4R2		2.80e-1	ng/dscm 7%O2	4.74e-8	lbs/hr	CE7%O2
5F Total	401C4R3		2.43e-1	ng/dscm 7%O2	4.97e-8	lbs/hr	CE7%O2
5F Total	401C4R4		1.74e-1	ng/dscm 7%O2	2.96e-8	lbs/hr	CE7%O2
5F Total	401C5R1		4.05e-1	ng/dscm 7%O2	1.06e-7	lbs/hr	CE7%O2
5F Total	401C5R2		3.73e-1	ng/dscm 7%O2	9.80e-8	lbs/hr	CE7%O2
5F Total	401C5R3		3.36e-1	ng/dscm 7%O2	7.45e-8	lbs/hr	CE7%O2
5F Total	401C5R4		2.05e-1	ng/dscm 7%O2	4.54e-8	lbs/hr	CE7%O2
6D 123478	401C1R1		1.42e-1	ng/dscm 7%O2	3.08e-8	lbs/hr	CE7%O2
6D 123478	401C1R2		3.79e-1	ng/dscm 7%O2	8.46e-8	lbs/hr	CE7%O2
6D 123478	401C1R3		2.86e-1	ng/dscm 7%O2	5.99e-8	lbs/hr	CE7%O2
6D 123478	401C1R4		6.29e-1	ng/dscm 7%O2	1.37e-7	lbs/hr	CE7%O2
6D 123478	401C3R1		3.79e-3	ng/dscm 7%O2	9.14e-10	lbs/hr	CE7%O2
6D 123478	401C3R2		3.64e-3	ng/dscm 7%O2	8.80e-10	lbs/hr	CE7%O2
6D 123478	401C3R3	2	5.23e-3	ng/dscm 7%O2	1.95e-9	lbs/hr	CE7%O2
6D 123478	401C4R1	ND	4.58e-3	ng/dscm 7%O2	8.62e-10	lbs/hr	CE7%O2
6D 123478	401C4R2	ND	1.02e-2	ng/dscm 7%O2	1.72e-9	lbs/hr	CE7%O2
6D 123478	401C4R3	2	1.84e-3	ng/dscm 7%O2	3.75e-10	lbs/hr	CE7%O2
6D 123478	401C4R4	ND	5.13e-3	ng/dscm 7%O2	8.71e-10	lbs/hr	CE7%O2
6D 123478	401C5R1	2	4.41e-3	ng/dscm 7%O2	1.15e-9	lbs/hr	CE7%O2
6D 123478	401C5R2	2	3.55e-3	ng/dscm 7%O2	9.33e-10	lbs/hr	CE7%O2
6D 123478	401C5R3	2	2.55e-3	ng/dscm 7%O2	5.65e-10	lbs/hr	CE7%O2
6D 123478	401C5R4	ND	4.01e-3	ng/dscm 7%O2	8.86e-10	lbs/hr	CE7%O2
6D 123678	401C1R1		1.62e-1	ng/dscm 7%O2	3.50e-8	lbs/hr	CE7%O2
6D 123678	401C1R2		3.52e-1	ng/dscm 7%O2	7.86e-8	lbs/hr	CE7%O2
6D 123678	401C1R3		4.19e-1	ng/dscm 7%O2	8.79e-8	lbs/hr	CE7%O2
6D 123678	401C1R4		1.53e+0	ng/dscm 7%O2	3.34e-7	lbs/hr	CE7%O2
6D 123678	401C3R1		8.41e-3	ng/dscm 7%O2	2.03e-9	lbs/hr	CE7%O2
6D 123678	401C3R2		8.08e-3	ng/dscm 7%O2	1.96e-9	lbs/hr	CE7%O2
6D 123678	401C3R3	2	1.05e-2	ng/dscm 7%O2	3.90e-9	lbs/hr	CE7%O2
6D 123678	401C4R1	2	4.58e-3	ng/dscm 7%O2	8.62e-10	lbs/hr	CE7%O2
6D 123678	401C4R2		5.09e-3	ng/dscm 7%O2	8.61e-10	lbs/hr	CE7%O2
6D 123678	401C4R3		3.22e-3	ng/dscm 7%O2	6.56e-10	lbs/hr	CE7%O2
6D 123678	401C4R4		2.05e-3	ng/dscm 7%O2	3.48e-10	lbs/hr	CE7%O2
6D 123678	401C5R1		1.32e-2	ng/dscm 7%O2	3.45e-9	lbs/hr	CE7%O2
6D 123678	401C5R2		8.87e-3	ng/dscm 7%O2	2.33e-9	lbs/hr	CE7%O2
6D 123678	401C5R3	2	4.58e-3	ng/dscm 7%O2	1.02e-9	lbs/hr	CE7%O2
6D 123678	401C5R4		4.51e-3	ng/dscm 7%O2	9.97e-10	lbs/hr	CE7%O2
6D 123789	401C1R1		1.58e-1	ng/dscm 7%O2	3.42e-8	lbs/hr	CE7%O2
6D 123789	401C1R2		3.79e-1	ng/dscm 7%O2	8.46e-8	lbs/hr	CE7%O2
6D 123789	401C1R3		4.57e-1	ng/dscm 7%O2	9.59e-8	lbs/hr	CE7%O2
6D 123789	401C1R4		1.42e+0	ng/dscm 7%O2	3.08e-7	lbs/hr	CE7%O2
6D 123789	401C3R1		8.41e-3	ng/dscm 7%O2	2.03e-9	lbs/hr	CE7%O2
6D 123789	401C3R2		8.08e-3	ng/dscm 7%O2	1.96e-9	lbs/hr	CE7%O2
6D 123789	401C3R3		1.05e-2	ng/dscm 7%O2	3.90e-9	lbs/hr	CE7%O2
6D 123789	401C4R1		4.58e-3	ng/dscm 7%O2	8.62e-10	lbs/hr	CE7%O2
6D 123789	401C4R2	ND	1.02e-2	ng/dscm 7%O2	1.72e-9	lbs/hr	CE7%O2
6D 123789	401C4R3	2	3.22e-3	ng/dscm 7%O2	6.56e-10	lbs/hr	CE7%O2
6D 123789	401C4R4	2	3.59e-3	ng/dscm 7%O2	6.10e-10	lbs/hr	CE7%O2
6D 123789	401C5R1		1.32e-2	ng/dscm 7%O2	3.45e-9	lbs/hr	CE7%O2
6D 123789	401C5R2	2	8.87e-3	ng/dscm 7%O2	2.33e-9	lbs/hr	CE7%O2
6D 123789	401C5R3		5.09e-3	ng/dscm 7%O2	1.13e-9	lbs/hr	CE7%O2
6D 123789	401C5R4	2	4.01e-3	ng/dscm 7%O2	8.86e-10	lbs/hr	CE7%O2
6D Other	401C1R1		3.83e+1	ng/dscm 7%O2	8.30e-6	lbs/hr	OCE
6D Other	401C1R2		6.70e+1	ng/dscm 7%O2	1.50e-5	lbs/hr	OCE
6D Other	401C1R3		4.87e+1	ng/dscm 7%O2	1.02e-5	lbs/hr	OCE
6D Other	401C1R4		7.67e+1	ng/dscm 7%O2	1.67e-5	lbs/hr	OCE
6D Other	401C3R1		2.02e-1	ng/dscm 7%O2	4.89e-8	lbs/hr	OCE
6D Other	401C3R2		2.43e-1	ng/dscm 7%O2	5.88e-8	lbs/hr	OCE

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ASH GROVE CEMENT COMPANY
 2. STATE: KS
 3. CITY: CHANUTE
 4. EP ID: 401 DEVICE NAME: KILN NO. 1

EPA KSD031203318
 SYSTEM TYPE: CEMENT KILN

APC SYSTEM: ESP

REGION: 7

6D Other	401C3R3	5.50e-1	ng/dscm 7%O2	2.05e-7	lbs/hr	OCE	
6D Other	401C4R1	6.87e-2	ng/dscm 7%O2	1.29e-8	lbs/hr	OCE	
6D Other	401C4R2	5.60e-2	ng/dscm 7%O2	9.48e-9	lbs/hr	OCE	
6D Other	401C4R3	5.15e-2	ng/dscm 7%O2	1.05e-8	lbs/hr	OCE	
6D Other	401C4R4	5.08e-2	ng/dscm 7%O2	8.62e-9	lbs/hr	OCE	
6D Other	401C5R1	8.94e-1	ng/dscm 7%O2	2.33e-7	lbs/hr	OCE	
6D Other	401C5R2	1.78e-1	ng/dscm 7%O2	4.69e-8	lbs/hr	OCE	
6D Other	401C5R3	1.66e-1	ng/dscm 7%O2	3.68e-8	lbs/hr	OCE	
6D Other	401C5R4	1.58e-1	ng/dscm 7%O2	3.49e-8	lbs/hr	OCE	
6D Total	401C1R1	3.87e+1	ng/dscm 7%O2	8.40e-6	lbs/hr	CE7%O2	
6D Total	401C1R2	6.81e+1	ng/dscm 7%O2	1.52e-5	lbs/hr	CE7%O2	
6D Total	401C1R3	4.99e+1	ng/dscm 7%O2	1.05e-5	lbs/hr	CE7%O2	
6D Total	401C1R4	8.02e+1	ng/dscm 7%O2	1.75e-5	lbs/hr	CE7%O2	
6D Total	401C3R1	2.23e-1	ng/dscm 7%O2	5.38e-8	lbs/hr	CE7%O2	
6D Total	401C3R2	2.63e-1	ng/dscm 7%O2	6.36e-8	lbs/hr	CE7%O2	
6D Total	401C3R3	5.76e-1	ng/dscm 7%O2	2.14e-7	lbs/hr	CE7%O2	
6D Total	401C4R1	8.25e-2	ng/dscm 7%O2	1.55e-8	lbs/hr	CE7%O2	
6D Total	401C4R2	8.15e-2	ng/dscm 7%O2	1.38e-8	lbs/hr	CE7%O2	
6D Total	401C4R3	5.97e-2	ng/dscm 7%O2	1.22e-8	lbs/hr	CE7%O2	
6D Total	401C4R4	6.15e-2	ng/dscm 7%O2	1.05e-8	lbs/hr	CE7%O2	
6D Total	401C5R1	9.25e-1	ng/dscm 7%O2	2.41e-7	lbs/hr	CE7%O2	
6D Total	401C5R2	2.00e-1	ng/dscm 7%O2	5.25e-8	lbs/hr	CE7%O2	
6D Total	401C5R3	1.78e-1	ng/dscm 7%O2	3.95e-8	lbs/hr	CE7%O2	
6D Total	401C5R4	1.70e-1	ng/dscm 7%O2	3.77e-8	lbs/hr	CE7%O2	
6F 123478	401C1R1	7.48e-2	ng/dscm 7%O2	1.62e-8	lbs/hr	CE7%O2	
6F 123478	401C1R2	4.16e-1	ng/dscm 7%O2	9.30e-8	lbs/hr	CE7%O2	
6F 123478	401C1R3	5.71e-1	ng/dscm 7%O2	1.20e-7	lbs/hr	CE7%O2	
6F 123478	401C1R4	3.21e+0	ng/dscm 7%O2	6.99e-7	lbs/hr	CE7%O2	
6F 123478	401C3R1	2.52e-2	ng/dscm 7%O2	6.10e-9	lbs/hr	CE7%O2	
6F 123478	401C3R2	1.21e-2	ng/dscm 7%O2	2.93e-9	lbs/hr	CE7%O2	
6F 123478	401C3R3	2.62e-2	ng/dscm 7%O2	9.74e-9	lbs/hr	CE7%O2	
6F 123478	401C4R1	1.83e-2	ng/dscm 7%O2	3.45e-9	lbs/hr	CE7%O2	
6F 123478	401C4R2	1.53e-2	ng/dscm 7%O2	2.58e-9	lbs/hr	CE7%O2	
6F 123478	401C4R3	1.38e-2	ng/dscm 7%O2	2.81e-9	lbs/hr	CE7%O2	
6F 123478	401C4R4	1.03e-2	ng/dscm 7%O2	1.74e-9	lbs/hr	CE7%O2	
6F 123478	401C5R1	2.64e-2	ng/dscm 7%O2	6.90e-9	lbs/hr	CE7%O2	
6F 123478	401C5R2	2.66e-2	ng/dscm 7%O2	7.00e-9	lbs/hr	CE7%O2	
6F 123478	401C5R3	1.53e-2	ng/dscm 7%O2	3.39e-9	lbs/hr	CE7%O2	
6F 123478	401C5R4	1.50e-2	ng/dscm 7%O2	3.32e-9	lbs/hr	CE7%O2	
6F 123678	401C1R1	3.55e-2	ng/dscm 7%O2	7.69e-9	lbs/hr	CE7%O2	
6F 123678	401C1R2	1.82e-1	ng/dscm 7%O2	4.06e-8	lbs/hr	CE7%O2	
6F 123678	401C1R3	2.32e-1	ng/dscm 7%O2	4.88e-8	lbs/hr	CE7%O2	
6F 123678	401C1R4	1.82e+0	ng/dscm 7%O2	3.97e-7	lbs/hr	CE7%O2	
6F 123678	401C3R1	1.26e-2	ng/dscm 7%O2	3.05e-9	lbs/hr	CE7%O2	
6F 123678	401C3R2	8.08e-3	ng/dscm 7%O2	1.96e-9	lbs/hr	CE7%O2	
6F 123678	401C3R3	1.05e-2	ng/dscm 7%O2	3.90e-9	lbs/hr	CE7%O2	
6F 123678	401C4R1	9.17e-3	ng/dscm 7%O2	1.72e-9	lbs/hr	CE7%O2	
6F 123678	401C4R2	5.09e-3	ng/dscm 7%O2	8.61e-10	lbs/hr	CE7%O2	
6F 123678	401C4R3	4.59e-3	ng/dscm 7%O2	9.37e-10	lbs/hr	CE7%O2	
6F 123678	401C4R4	5.13e-3	ng/dscm 7%O2	8.71e-10	lbs/hr	CE7%O2	
6F 123678	401C5R1	1.32e-2	ng/dscm 7%O2	3.45e-9	lbs/hr	CE7%O2	
6F 123678	401C5R2	1.33e-2	ng/dscm 7%O2	3.50e-9	lbs/hr	CE7%O2	
6F 123678	401C5R3	1.02e-2	ng/dscm 7%O2	2.26e-9	lbs/hr	CE7%O2	
6F 123678	401C5R4	5.01e-3	ng/dscm 7%O2	1.11e-9	lbs/hr	CE7%O2	
6F 123789	401C1R1	ND	3.94e-3	ng/dscm 7%O2	1.00e-2	lbs/hr	7%O2
6F 123789	401C1R2	ND	2.27e-2	ng/dscm 7%O2	5.07e-9	lbs/hr	CE7%O2
6F 123789	401C1R3	ND	3.81e-2	ng/dscm 7%O2	7.99e-9	lbs/hr	CE7%O2
6F 123789	401C1R4	ND	5.55e-1	ng/dscm 7%O2	1.21e-7	lbs/hr	CE7%O2
6F 123789	401C3R1	ND	4.21e-3	ng/dscm 7%O2	1.02e-9	lbs/hr	CE7%O2
6F 123789	401C3R2	ND	2.02e-3	ng/dscm 7%O2	4.89e-10	lbs/hr	CE7%O2
6F 123789	401C3R3	ND	4.19e-3	ng/dscm 7%O2	1.56e-9	lbs/hr	CE7%O2
6F 123789	401C4R1	ND	2.75e-3	ng/dscm 7%O2	5.17e-10	lbs/hr	CE7%O2
6F 123789	401C4R2	ND	5.09e-3	ng/dscm 7%O2	8.61e-10	lbs/hr	CE7%O2

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ASH GROVE CEMENT COMPANY
 2. STATE: KS
 3. CITY: CHANUTE
 4. EP ID: 401 DEVICE NAME: KILN NO. 1

EPA KSD031203318
 SYSTEM TYPE: CEMENT KILN

APC SYSTEM: ESP

REGION: 7

6F 123789	401C4R3	ND	3.22e-3	ng/dscm	7%O2	6.56e-10	lbs/hr	CE7%O2
6F 123789	401C4R4	ND	3.59e-3	ng/dscm	7%O2	6.10e-10	lbs/hr	CE7%O2
6F 123789	401C5R1	ND	2.64e-3	ng/dscm	7%O2	6.90e-10	lbs/hr	CE7%O2
6F 123789	401C5R2	ND	2.22e-3	ng/dscm	7%O2	5.83e-10	lbs/hr	CE7%O2
6F 123789	401C5R3	ND	2.55e-3	ng/dscm	7%O2	5.65e-10	lbs/hr	CE7%O2
6F 123789	401C5R4	2	2.00e-3	ng/dscm	7%O2	4.43e-10	lbs/hr	CE7%O2
6F 234678	401C1R1		5.51e-2	ng/dscm	7%O2	1.20e-8	lbs/hr	CE7%O2
6F 234678	401C1R2		3.18e-1	ng/dscm	7%O2	7.10e-8	lbs/hr	CE7%O2
6F 234678	401C1R3		4.19e-1	ng/dscm	7%O2	8.79e-8	lbs/hr	CE7%O2
6F 234678	401C1R4		4.04e+0	ng/dscm	7%O2	8.81e-7	lbs/hr	CE7%O2
6F 234678	401C3R1		1.68e-2	ng/dscm	7%O2	4.06e-9	lbs/hr	CE7%O2
6F 234678	401C3R2		1.21e-2	ng/dscm	7%O2	2.93e-9	lbs/hr	CE7%O2
6F 234678	401C3R3		2.09e-2	ng/dscm	7%O2	7.79e-9	lbs/hr	CE7%O2
6F 234678	401C4R1		1.37e-2	ng/dscm	7%O2	2.59e-9	lbs/hr	CE7%O2
6F 234678	401C4R2		1.02e-2	ng/dscm	7%O2	1.72e-9	lbs/hr	CE7%O2
6F 234678	401C4R3		9.19e-3	ng/dscm	7%O2	1.87e-9	lbs/hr	CE7%O2
6F 234678	401C4R4		1.03e-2	ng/dscm	7%O2	1.74e-9	lbs/hr	CE7%O2
6F 234678	401C5R1		1.76e-2	ng/dscm	7%O2	4.60e-9	lbs/hr	CE7%O2
6F 234678	401C5R2		1.77e-2	ng/dscm	7%O2	4.66e-9	lbs/hr	CE7%O2
6F 234678	401C5R3		1.02e-2	ng/dscm	7%O2	2.26e-9	lbs/hr	CE7%O2
6F 234678	401C5R4		1.00e-2	ng/dscm	7%O2	2.22e-9	lbs/hr	CE7%O2
6F Other	401C1R1		1.85e-1	ng/dscm	7%O2	-1.00e-2	lbs/hr	OCE
6F Other	401C1R2		1.29e+0	ng/dscm	7%O2	2.89e-7	lbs/hr	OCE
6F Other	401C1R3		1.82e+0	ng/dscm	7%O2	3.83e-7	lbs/hr	OCE
6F Other	401C1R4		1.02e+1	ng/dscm	7%O2	2.21e-6	lbs/hr	OCE
6F Other	401C3R1		8.41e-3	ng/dscm	7%O2	2.03e-9	lbs/hr	OCE
6F Other	401C3R2		-6.06e-3	ng/dscm	7%O2	-1.47e-9	lbs/hr	OCE
6F Other	401C3R3		2.20e-2	ng/dscm	7%O2	8.18e-9	lbs/hr	OCE
6F Other	401C4R1		2.47e-2	ng/dscm	7%O2	4.65e-9	lbs/hr	OCE
6F Other	401C4R2		2.55e-2	ng/dscm	7%O2	4.31e-9	lbs/hr	OCE
6F Other	401C4R3		1.98e-2	ng/dscm	7%O2	4.03e-9	lbs/hr	OCE
6F Other	401C4R4		6.66e-3	ng/dscm	7%O2	1.13e-9	lbs/hr	OCE
6F Other	401C5R1		2.82e-2	ng/dscm	7%O2	7.36e-9	lbs/hr	OCE
6F Other	401C5R2		-2.22e-3	ng/dscm	7%O2	-5.83e-10	lbs/hr	OCE
6F Other	401C5R3		7.64e-3	ng/dscm	7%O2	1.69e-9	lbs/hr	OCE
6F Other	401C5R4		8.02e-3	ng/dscm	7%O2	1.77e-9	lbs/hr	OCE
6F Total	401C1R1		3.55e-1	ng/dscm	7%O2	7.69e-8	lbs/hr	CE7%O2
6F Total	401C1R2		2.23e+0	ng/dscm	7%O2	4.99e-7	lbs/hr	CE7%O2
6F Total	401C1R3		3.08e+0	ng/dscm	7%O2	6.47e-7	lbs/hr	CE7%O2
6F Total	401C1R4		1.98e+1	ng/dscm	7%O2	4.31e-6	lbs/hr	CE7%O2
6F Total	401C3R1		6.73e-2	ng/dscm	7%O2	1.63e-8	lbs/hr	CE7%O2
6F Total	401C3R2		2.83e-2	ng/dscm	7%O2	6.85e-9	lbs/hr	CE7%O2
6F Total	401C3R3		8.37e-2	ng/dscm	7%O2	3.12e-8	lbs/hr	CE7%O2
6F Total	401C4R1		6.87e-2	ng/dscm	7%O2	1.29e-8	lbs/hr	CE7%O2
6F Total	401C4R2		6.11e-2	ng/dscm	7%O2	1.03e-8	lbs/hr	CE7%O2
6F Total	401C4R3		5.05e-2	ng/dscm	7%O2	1.03e-8	lbs/hr	CE7%O2
6F Total	401C4R4		3.59e-2	ng/dscm	7%O2	6.10e-9	lbs/hr	CE7%O2
6F Total	401C5R1		8.81e-2	ng/dscm	7%O2	2.30e-8	lbs/hr	CE7%O2
6F Total	401C5R2		5.77e-2	ng/dscm	7%O2	1.52e-8	lbs/hr	CE7%O2
6F Total	401C5R3		4.58e-2	ng/dscm	7%O2	1.02e-8	lbs/hr	CE7%O2
6F Total	401C5R4		4.01e-2	ng/dscm	7%O2	8.86e-9	lbs/hr	CE7%O2
7D 1234678	401C1R1		1.26e+0	ng/dscm	7%O2	2.73e-7	lbs/hr	CE7%O2
7D 1234678	401C1R2		2.76e+0	ng/dscm	7%O2	6.17e-7	lbs/hr	CE7%O2
7D 1234678	401C1R3		2.63e+0	ng/dscm	7%O2	5.52e-7	lbs/hr	CE7%O2
7D 1234678	401C1R4		9.48e+0	ng/dscm	7%O2	2.06e-6	lbs/hr	CE7%O2
7D 1234678	401C3R1		3.79e-2	ng/dscm	7%O2	9.14e-9	lbs/hr	CE7%O2
7D 1234678	401C3R2	2	3.23e-2	ng/dscm	7%O2	7.82e-9	lbs/hr	CE7%O2
7D 1234678	401C3R3		6.28e-2	ng/dscm	7%O2	2.34e-8	lbs/hr	CE7%O2
7D 1234678	401C4R1	2	2.29e-2	ng/dscm	7%O2	4.31e-9	lbs/hr	CE7%O2
7D 1234678	401C4R2		4.58e-2	ng/dscm	7%O2	7.75e-9	lbs/hr	CE7%O2
7D 1234678	401C4R3		1.84e-2	ng/dscm	7%O2	3.75e-9	lbs/hr	CE7%O2
7D 1234678	401C4R4		1.54e-2	ng/dscm	7%O2	2.61e-9	lbs/hr	CE7%O2
7D 1234678	401C5R1		1.06e-1	ng/dscm	7%O2	2.76e-8	lbs/hr	CE7%O2

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ASH GROVE CEMENT COMPANY
 2. STATE: KS
 3. CITY: CHANUTE
 4. EP ID: 401 DEVICE NAME: KILN NO. 1

EPA KSD031203318
 SYSTEM TYPE: CEMENT KILN

APC SYSTEM: ESP

REGION: 7

7D 1234678	401C5R2	3.99e-2	ng/dscm	7%O2	1.05e-8	lbs/hr	CE7%O2
7D 1234678	401C5R3	4.07e-2	ng/dscm	7%O2	9.03e-9	lbs/hr	CE7%O2
7D 1234678	401C5R4	3.01e-2	ng/dscm	7%O2	6.65e-9	lbs/hr	CE7%O2
7D Other	401C1R1	1.89e+0	ng/dscm	7%O2	4.10e-7	lbs/hr	OCE
7D Other	401C1R2	4.20e+0	ng/dscm	7%O2	9.39e-7	lbs/hr	OCE
7D Other	401C1R3	4.87e+0	ng/dscm	7%O2	1.02e-6	lbs/hr	OCE
7D Other	401C1R4	1.59e+1	ng/dscm	7%O2	3.47e-6	lbs/hr	OCE
7D Other	401C3R1	4.21e-2	ng/dscm	7%O2	1.02e-8	lbs/hr	OCE
7D Other	401C3R2	8.08e-3	ng/dscm	7%O2	1.96e-9	lbs/hr	OCE
7D Other	401C3R3	8.90e-2	ng/dscm	7%O2	3.31e-8	lbs/hr	OCE
7D Other	401C4R1	0.00e+0			0.00e+0		OCE
7D Other	401C4R2	6.11e-2	ng/dscm	7%O2	1.03e-8	lbs/hr	OCE
7D Other	401C4R3	2.30e-2	ng/dscm	7%O2	4.69e-9	lbs/hr	OCE
7D Other	401C4R4	2.56e-2	ng/dscm	7%O2	4.35e-9	lbs/hr	OCE
7D Other	401C5R1	1.72e-1	ng/dscm	7%O2	4.48e-8	lbs/hr	OCE
7D Other	401C5R2	6.21e-2	ng/dscm	7%O2	1.63e-8	lbs/hr	OCE
7D Other	401C5R3	5.60e-2	ng/dscm	7%O2	1.24e-8	lbs/hr	OCE
7D Other	401C5R4	4.51e-2	ng/dscm	7%O2	9.97e-9	lbs/hr	OCE
7D Total	401C1R1	3.15e+0	ng/dscm	7%O2	6.83e-7	lbs/hr	CE7%O2
7D Total	401C1R2	6.96e+0	ng/dscm	7%O2	1.56e-6	lbs/hr	CE7%O2
7D Total	401C1R3	7.50e+0	ng/dscm	7%O2	1.57e-6	lbs/hr	CE7%O2
7D Total	401C1R4	2.54e+1	ng/dscm	7%O2	5.53e-6	lbs/hr	CE7%O2
7D Total	401C3R1	7.99e-2	ng/dscm	7%O2	1.93e-8	lbs/hr	CE7%O2
7D Total	401C3R2	4.04e-2	ng/dscm	7%O2	9.78e-9	lbs/hr	CE7%O2
7D Total	401C3R3	1.52e-1	ng/dscm	7%O2	5.65e-8	lbs/hr	CE7%O2
7D Total	401C4R1	2.29e-2	ng/dscm	7%O2	4.31e-9	lbs/hr	CE7%O2
7D Total	401C4R2	1.07e-1	ng/dscm	7%O2	1.81e-8	lbs/hr	CE7%O2
7D Total	401C4R3	4.13e-2	ng/dscm	7%O2	8.44e-9	lbs/hr	CE7%O2
7D Total	401C4R4	4.10e-2	ng/dscm	7%O2	6.97e-9	lbs/hr	CE7%O2
7D Total	401C5R1	2.78e-1	ng/dscm	7%O2	7.24e-8	lbs/hr	CE7%O2
7D Total	401C5R2	1.02e-1	ng/dscm	7%O2	2.68e-8	lbs/hr	CE7%O2
7D Total	401C5R3	9.67e-2	ng/dscm	7%O2	2.15e-8	lbs/hr	CE7%O2
7D Total	401C5R4	7.51e-2	ng/dscm	7%O2	1.66e-8	lbs/hr	CE7%O2
7F 1234678	401C1R1	1.97e-2	ng/dscm	7%O2	4.27e-9	lbs/hr	CE7%O2
7F 1234678	401C1R2	1.06e-1	ng/dscm	7%O2	2.37e-8	lbs/hr	CE7%O2
7F 1234678	401C1R3	1.75e-1	ng/dscm	7%O2	3.68e-8	lbs/hr	CE7%O2
7F 1234678	401C1R4	2.78e+0	ng/dscm	7%O2	6.04e-7	lbs/hr	CE7%O2
7F 1234678	401C3R1	1.68e-2	ng/dscm	7%O2	4.06e-9	lbs/hr	CE7%O2
7F 1234678	401C3R2	8.08e-3	ng/dscm	7%O2	1.96e-9	lbs/hr	CE7%O2
7F 1234678	401C3R3	2.09e-2	ng/dscm	7%O2	7.79e-9	lbs/hr	CE7%O2
7F 1234678	401C4R1	1.37e-2	ng/dscm	7%O2	2.59e-9	lbs/hr	CE7%O2
7F 1234678	401C4R2	1.02e-2	ng/dscm	7%O2	1.72e-9	lbs/hr	CE7%O2
7F 1234678	401C4R3	9.19e-3	ng/dscm	7%O2	1.87e-9	lbs/hr	CE7%O2
7F 1234678	401C4R4	5.13e-3	ng/dscm	7%O2	8.71e-10	lbs/hr	CE7%O2
7F 1234678	401C5R1	1.32e-2	ng/dscm	7%O2	3.45e-9	lbs/hr	CE7%O2
7F 1234678	401C5R2	1.33e-2	ng/dscm	7%O2	3.50e-9	lbs/hr	CE7%O2
7F 1234678	401C5R3	1.02e-2	ng/dscm	7%O2	2.26e-9	lbs/hr	CE7%O2
7F 1234678	401C5R4	3.01e-3	ng/dscm	7%O2	6.65e-10	lbs/hr	CE7%O2
7F 1234789	401C1R1	ND	3.15e-3	ng/dscm	8.00e-3	lbs/hr	7%O2
7F 1234789	401C1R2	ND	4.16e-2	ng/dscm	9.30e-9	lbs/hr	CE7%O2
7F 1234789	401C1R3	ND	6.85e-2	ng/dscm	1.44e-8	lbs/hr	CE7%O2
7F 1234789	401C1R4	ND	1.63e+0	ng/dscm	3.54e-7	lbs/hr	CE7%O2
7F 1234789	401C3R1	ND	8.41e-3	ng/dscm	2.03e-9	lbs/hr	CE7%O2
7F 1234789	401C3R2	ND	3.23e-3	ng/dscm	7.82e-10	lbs/hr	CE7%O2
7F 1234789	401C3R3	ND	5.23e-3	ng/dscm	1.95e-9	lbs/hr	CE7%O2
7F 1234789	401C4R1	ND	4.58e-4	ng/dscm	8.62e-11	lbs/hr	CE7%O2
7F 1234789	401C4R2	ND	1.02e-2	ng/dscm	1.72e-9	lbs/hr	CE7%O2
7F 1234789	401C4R3	ND	9.19e-3	ng/dscm	1.87e-9	lbs/hr	CE7%O2
7F 1234789	401C4R4	ND	5.13e-3	ng/dscm	8.71e-10	lbs/hr	CE7%O2
7F 1234789	401C5R1	ND	4.41e-3	ng/dscm	1.15e-9	lbs/hr	CE7%O2
7F 1234789	401C5R2	ND	3.55e-3	ng/dscm	9.33e-10	lbs/hr	CE7%O2
7F 1234789	401C5R3	ND	4.07e-3	ng/dscm	9.03e-10	lbs/hr	CE7%O2
7F 1234789	401C5R4	ND	3.51e-3	ng/dscm	7.76e-10	lbs/hr	CE7%O2

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ASH GROVE CEMENT COMPANY
 2. STATE: KS
 3. CITY: CHANUTE
 4. EP ID: 401 DEVICE NAME: KILN NO. 1

EPA ID: KSD031203318
 SYSTEM TYPE: CEMENT KILN

APC SYSTEM: ESP

REGION: 7

7F Other	401C1R1	7.88e-4	ng/dscm	7%O2	-8.00e-3	lbs/hr	OCE
7F Other	401C1R2	1.51e-2	ng/dscm	7%O2	3.38e-9	lbs/hr	OCE
7F Other	401C1R3	2.67e-2	ng/dscm	7%O2	5.60e-9	lbs/hr	OCE
7F Other	401C1R4	4.84e+0	ng/dscm	7%O2	1.05e-6	lbs/hr	OCE
7F Other	401C3R1	-4.21e-3	ng/dscm	7%O2	-1.02e-9	lbs/hr	OCE
7F Other	401C3R2	8.08e-4	ng/dscm	7%O2	1.96e-10	lbs/hr	OCE
7F Other	401C3R3	3.39e-21	ng/dscm	7%O2	1.62e-27	lbs/hr	OCE
7F Other	401C4R1	-4.58e-4	ng/dscm	7%O2	-8.62e-11	lbs/hr	OCE
7F Other	401C4R2	-5.09e-3	ng/dscm	7%O2	-8.61e-10	lbs/hr	OCE
7F Other	401C4R3	-9.19e-3	ng/dscm	7%O2	-1.87e-9	lbs/hr	OCE
7F Other	401C4R4	-5.13e-3	ng/dscm	7%O2	-8.71e-10	lbs/hr	OCE
7F Other	401C5R1	0.00e+0			2.02e-28	lbs/hr	OCE
7F Other	401C5R2	-7.99e-3	ng/dscm	7%O2	-2.10e-9	lbs/hr	OCE
7F Other	401C5R3	-4.07e-3	ng/dscm	7%O2	-9.03e-10	lbs/hr	OCE
7F Other	401C5R4	-2.50e-3	ng/dscm	7%O2	-5.54e-10	lbs/hr	OCE
7F Total	401C1R1	2.36e-2	ng/dscm	7%O2	5.13e-9	lbs/hr	CE7%O2
7F Total	401C1R2	1.63e-1	ng/dscm	7%O2	3.64e-8	lbs/hr	CE7%O2
7F Total	401C1R3	2.70e-1	ng/dscm	7%O2	5.68e-8	lbs/hr	CE7%O2
7F Total	401C1R4	9.24e+0	ng/dscm	7%O2	2.01e-6	lbs/hr	CE7%O2
7F Total	401C3R1	2.10e-2	ng/dscm	7%O2	5.08e-9	lbs/hr	CE7%O2
7F Total	401C3R2	1.21e-2	ng/dscm	7%O2	2.93e-9	lbs/hr	CE7%O2
7F Total	401C3R3	2.62e-2	ng/dscm	7%O2	9.74e-9	lbs/hr	CE7%O2
7F Total	401C4R1	1.37e-2	ng/dscm	7%O2	2.59e-9	lbs/hr	CE7%O2
7F Total	401C4R2	1.53e-2	ng/dscm	7%O2	2.58e-9	lbs/hr	CE7%O2
7F Total	401C4R3	9.19e-3	ng/dscm	7%O2	1.87e-9	lbs/hr	CE7%O2
7F Total	401C4R4	5.13e-3	ng/dscm	7%O2	8.71e-10	lbs/hr	CE7%O2
7F Total	401C5R1	1.76e-2	ng/dscm	7%O2	4.60e-9	lbs/hr	CE7%O2
7F Total	401C5R2	8.87e-3	ng/dscm	7%O2	2.33e-9	lbs/hr	CE7%O2
7F Total	401C5R3	1.02e-2	ng/dscm	7%O2	2.26e-9	lbs/hr	CE7%O2
7F Total	401C5R4	4.01e-3	ng/dscm	7%O2	8.86e-10	lbs/hr	CE7%O2
8D	401C1R1	3.03e-1	ng/dscm	7%O2	6.58e-8	lbs/hr	CE7%O2
8D	401C1R2	7.19e-1	ng/dscm	7%O2	1.61e-7	lbs/hr	CE7%O2
8D	401C1R3	1.29e+0	ng/dscm	7%O2	2.72e-7	lbs/hr	CE7%O2
8D	401C1R4	3.26e+0	ng/dscm	7%O2	7.11e-7	lbs/hr	CE7%O2
8D	401C3R1	8.41e-2	ng/dscm	7%O2	2.03e-8	lbs/hr	CE7%O2
8D	401C3R2	6.47e-2	ng/dscm	7%O2	1.56e-8	lbs/hr	CE7%O2
8D	401C3R3	1.15e-1	ng/dscm	7%O2	4.29e-8	lbs/hr	CE7%O2
8D	401C4R1	6.42e-2	ng/dscm	7%O2	1.21e-8	lbs/hr	CE7%O2
8D	401C4R2	2 1.02e-1	ng/dscm	7%O2	1.72e-8	lbs/hr	CE7%O2
8D	401C4R3	5.51e-2	ng/dscm	7%O2	1.12e-8	lbs/hr	CE7%O2
8D	401C4R4	2 4.10e-2	ng/dscm	7%O2	6.97e-9	lbs/hr	CE7%O2
8D	401C5R1	1.15e-1	ng/dscm	7%O2	2.99e-8	lbs/hr	CE7%O2
8D	401C5R2	9.76e-2	ng/dscm	7%O2	2.57e-8	lbs/hr	CE7%O2
8D	401C5R3	1.12e-1	ng/dscm	7%O2	2.48e-8	lbs/hr	CE7%O2
8D	401C5R4	5.01e-2	ng/dscm	7%O2	1.11e-8	lbs/hr	CE7%O2
8F	401C1R1	ND 1.18e-2	ng/dscm	7%O2	2.56e-9	lbs/hr	CE7%O2
8F	401C1R2	ND 6.06e-2	ng/dscm	7%O2	1.35e-8	lbs/hr	CE7%O2
8F	401C1R3	ND 5.71e-2	ng/dscm	7%O2	1.20e-8	lbs/hr	CE7%O2
8F	401C1R4	3.81e+0	ng/dscm	7%O2	8.29e-7	lbs/hr	CE7%O2
8F	401C3R1	1.26e-2	ng/dscm	7%O2	3.05e-9	lbs/hr	CE7%O2
8F	401C3R2	2 1.21e-2	ng/dscm	7%O2	2.93e-9	lbs/hr	CE7%O2
8F	401C3R3	3.14e-2	ng/dscm	7%O2	1.17e-8	lbs/hr	CE7%O2
8F	401C4R1	2 9.17e-3	ng/dscm	7%O2	1.72e-9	lbs/hr	CE7%O2
8F	401C4R2	ND 2.55e-2	ng/dscm	7%O2	4.31e-9	lbs/hr	CE7%O2
8F	401C4R3	ND 3.22e-2	ng/dscm	7%O2	6.56e-9	lbs/hr	CE7%O2
8F	401C4R4	ND 1.03e-2	ng/dscm	7%O2	1.74e-9	lbs/hr	CE7%O2
8F	401C5R1	2 8.81e-3	ng/dscm	7%O2	2.30e-9	lbs/hr	CE7%O2
8F	401C5R2	2 8.87e-3	ng/dscm	7%O2	2.33e-9	lbs/hr	CE7%O2
8F	401C5R3	5.09e-3	ng/dscm	7%O2	1.13e-9	lbs/hr	CE7%O2
8F	401C5R4	5.01e-3	ng/dscm	7%O2	1.11e-9	lbs/hr	CE7%O2
TEQ	401C1R1	3.51e-1	ng/dscm	7%O2	1.08e-3	lbs/hr	COET
TEQ	401C1R2	1.36e+0	ng/dscm	7%O2	3.04e-7	lbs/hr	COET
TEQ	401C1R3	1.50e+0	ng/dscm	7%O2	3.14e-7	lbs/hr	COET

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ASH GROVE CEMENT COMPANY
 2. STATE: KS
 3. CITY: CHANUTE
 4. EP ID: 401 DEVICE NAME: KILN NO. 1

EPA KSD031203318
 SYSTEM TYPE: CEMENT KILN

APC SYSTEM: ESP

REGION: 7

TEQ	401C1R4	3.84e+0	ng/dscm 7%O2	8.37e-7	lbs/hr	CCET
TEQ	401C3R1	4.57e-2	ng/dscm 7%O2	1.10e-8	lbs/hr	CCET
TEQ	401C3R2	3.83e-2	ng/dscm 7%O2	9.26e-9	lbs/hr	CCET
TEQ	401C3R3	4.73e-2	ng/dscm 7%O2	1.76e-8	lbs/hr	CCET
TEQ	401C4R1	3.76e-2	ng/dscm 7%O2	7.07e-9	lbs/hr	CCET
TEQ	401C4R2	4.69e-2	ng/dscm 7%O2	7.93e-9	lbs/hr	CCET
TEQ	401C4R3	3.22e-2	ng/dscm 7%O2	6.56e-9	lbs/hr	CCET
TEQ	401C4R4	2.66e-2	ng/dscm 7%O2	4.52e-9	lbs/hr	CCET
TEQ	401C5R1	5.82e-2	ng/dscm 7%O2	1.52e-8	lbs/hr	CCET
TEQ	401C5R2	5.25e-2	ng/dscm 7%O2	1.38e-8	lbs/hr	CCET
TEQ	401C5R3	4.67e-2	ng/dscm 7%O2	1.04e-8	lbs/hr	CCET
TEQ	401C5R4	3.27e-2	ng/dscm 7%O2	7.23e-9	lbs/hr	CCET
Total PCDD/PCDF	401C1R1	6.87e+1	ng/dscm 7%O2	1.49e-5	lbs/hr	CCET
Total PCDD/PCDF	401C1R2	1.48e+2	ng/dscm 7%O2	3.30e-5	lbs/hr	CCET
Total PCDD/PCDF	401C1R3	1.37e+2	ng/dscm 7%O2	2.87e-5	lbs/hr	CCET
Total PCDD/PCDF	401C1R4	2.77e+2	ng/dscm 7%O2	6.03e-5	lbs/hr	CCET
Total PCDD/PCDF	401C3R1	2.35e+0	ng/dscm 7%O2	5.67e-7	lbs/hr	CCET
Total PCDD/PCDF	401C3R2	1.80e+0	ng/dscm 7%O2	4.35e-7	lbs/hr	CCET
Total PCDD/PCDF	401C3R3	1.72e+0	ng/dscm 7%O2	6.39e-7	lbs/hr	CCET
Total PCDD/PCDF	401C4R1	1.59e+0	ng/dscm 7%O2	2.99e-7	lbs/hr	CCET
Total PCDD/PCDF	401C4R2	1.84e+0	ng/dscm 7%O2	3.12e-7	lbs/hr	CCET
Total PCDD/PCDF	401C4R3	1.57e+0	ng/dscm 7%O2	3.21e-7	lbs/hr	CCET
Total PCDD/PCDF	401C4R4	1.23e+0	ng/dscm 7%O2	2.09e-7	lbs/hr	CCET
Total PCDD/PCDF	401C5R1	3.84e+0	ng/dscm 7%O2	1.00e-6	lbs/hr	CCET
Total PCDD/PCDF	401C5R2	2.24e+0	ng/dscm 7%O2	5.88e-7	lbs/hr	CCET
Total PCDD/PCDF	401C5R3	2.50e+0	ng/dscm 7%O2	5.55e-7	lbs/hr	CCET
Total PCDD/PCDF	401C5R4	1.53e+0	ng/dscm 7%O2	3.38e-7	lbs/hr	CCET

7. Category: Halogens

Analysis:

8. Substance	9. Run ID	Concentration		Mass Rate	Calc		
Chlorine	401C1R1	3.89e+0	ppmv 7%O2	2.48e+0	lbs/hr	CC7%O2	
Chlorine	401C1R2	1.75e+0	ppmv 7%O2	1.15e+0	lbs/hr	CC7%O2	
Chlorine	401C1R3	2.76e-1	ppmv 7%O2	1.70e-1	lbs/hr	CC7%O2	
Chlorine	401C1R4	ND	2.50e-1	ppmv 7%O2	1.60e-1	lbs/hr	CC7%O2
Chlorine	401C5R1	1.67e-1	ppmv 7%O2	1.28e-1	lbs/hr	CE7%O2	
Chlorine	401C5R2	1.40e-1	ppmv 7%O2	1.08e-1	lbs/hr	CE7%O2	
Chlorine	401C5R3	9.40e-2	ppmv 7%O2	6.13e-2	lbs/hr	CE7%O2	
Chlorine	401C5R4	7.45e-2	ppmv 7%O2	4.85e-2	lbs/hr	CE7%O2	
HCl	401C1R1	3.42e+1	ppmv 7%O2	1.12e+1	lbs/hr	CC7%O2	
HCl	401C1R2	4.39e+1	ppmv 7%O2	1.48e+1	lbs/hr	CC7%O2	
HCl	401C1R3	3.25e+1	ppmv 7%O2	1.03e+1	lbs/hr	CC7%O2	
HCl	401C1R4	2.19e+1	ppmv 7%O2	7.20e+0	lbs/hr	CC7%O2	
HCl	401C5R1	1.10e+1	ppmv 7%O2	4.35e+0	lbs/hr	CE7%O2	
HCl	401C5R2	6.63e+0	ppmv 7%O2	2.63e+0	lbs/hr	CE7%O2	
HCl	401C5R3	8.23e+0	ppmv 7%O2	2.76e+0	lbs/hr	CE7%O2	
HCl	401C5R4	1.47e+1	ppmv 7%O2	4.92e+0	lbs/hr	CE7%O2	

7. Category: Metals

Analysis:

8. Substance	9. Run ID	Concentration		Mass Rate	Calc		
Antimony	401C1R1	ND	1.43e+2	ug/dscm 7%O2	3.10e-2	lbs/hr	CC7%O2
Antimony	401C1R2	ND	1.39e+2	ug/dscm 7%O2	3.10e-2	lbs/hr	CC7%O2
Antimony	401C1R3	ND	1.53e+2	ug/dscm 7%O2	3.20e-2	lbs/hr	CC7%O2
Antimony	401C1R4	ND	1.52e+2	ug/dscm 7%O2	3.30e-2	lbs/hr	CC7%O2
Antimony	401C5R1	ND	1.13e+0	ug/dscm 7%O2	2.95e-4	lbs/hr	CC7%O2
Antimony	401C5R2	ND	7.96e-1	ug/dscm 7%O2	2.09e-4	lbs/hr	CC7%O2
Antimony	401C5R3	ND	1.56e+0	ug/dscm 7%O2	3.46e-4	lbs/hr	CC7%O2
Antimony	401C5R4	ND	1.11e+0	ug/dscm 7%O2	2.45e-4	lbs/hr	CC7%O2
Arsenic	401C1R1	ND	1.20e+1	ug/dscm 7%O2	2.60e-3	lbs/hr	CC7%O2
Arsenic	401C1R2	ND	1.17e+1	ug/dscm 7%O2	2.60e-3	lbs/hr	CC7%O2

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ASH GROVE CEMENT COMPANY
 2. STATE: KS
 3. CITY: CHANUTE
 4. EP ID: 401 DEVICE NAME: KILN NO. 1

EPA ID: KSD031203318
 SYSTEM TYPE: CEMENT KILN

APC SYSTEM: ESP

REGION: 7

Arsenic	401C1R3	ND	1.67e+1	ug/dscm	7%O2	3.50e-3	lbs/hr	CC7%O2
Arsenic	401C1R4	ND	1.24e+1	ug/dscm	7%O2	2.70e-3	lbs/hr	CC7%O2
Arsenic	401C5R1	ND	6.52e-1	ug/dscm	7%O2	1.70e-4	lbs/hr	CC7%O2
Arsenic	401C5R2	ND	5.98e-1	ug/dscm	7%O2	1.57e-4	lbs/hr	CC7%O2
Arsenic	401C5R3	ND	7.04e-1	ug/dscm	7%O2	1.56e-4	lbs/hr	CC7%O2
Arsenic	401C5R4	ND	7.11e-1	ug/dscm	7%O2	1.57e-4	lbs/hr	CC7%O2
Barium	401C1R1		1.43e+2	ug/dscm	7%O2	3.10e-2	lbs/hr	CC7%O2
Barium	401C1R2	ND	1.57e+2	ug/dscm	7%O2	3.50e-2	lbs/hr	CC7%O2
Barium	401C1R3	ND	1.14e+2	ug/dscm	7%O2	2.40e-2	lbs/hr	CC7%O2
Barium	401C1R4	ND	1.43e+2	ug/dscm	7%O2	3.10e-2	lbs/hr	CC7%O2
Barium	401C5R1		2.27e+2	ug/dscm	7%O2	5.93e-2	lbs/hr	CC7%O2
Barium	401C5R2		1.87e+2	ug/dscm	7%O2	4.90e-2	lbs/hr	CC7%O2
Barium	401C5R3		2.19e+2	ug/dscm	7%O2	4.85e-2	lbs/hr	CC7%O2
Barium	401C5R4		1.59e+2	ug/dscm	7%O2	3.52e-2	lbs/hr	CC7%O2
Beryllium	401C1R1	ND	4.57e+0	ug/dscm	7%O2	9.90e-4	lbs/hr	CC7%O2
Beryllium	401C1R2	ND	4.44e+0	ug/dscm	7%O2	9.90e-4	lbs/hr	CC7%O2
Beryllium	401C1R3	ND	4.77e+0	ug/dscm	7%O2	1.00e-3	lbs/hr	CC7%O2
Beryllium	401C1R4	ND	4.60e+0	ug/dscm	7%O2	1.00e-3	lbs/hr	CC7%O2
Beryllium	401C5R1	ND	4.26e-1	ug/dscm	7%O2	1.11e-4	lbs/hr	CC7%O2
Beryllium	401C5R2	ND	4.00e-1	ug/dscm	7%O2	1.05e-4	lbs/hr	CC7%O2
Beryllium	401C5R3	ND	4.69e-1	ug/dscm	7%O2	1.04e-4	lbs/hr	CC7%O2
Beryllium	401C5R4	ND	4.75e-1	ug/dscm	7%O2	1.05e-4	lbs/hr	CC7%O2
Cadmium	401C1R1	ND	1.43e+1	ug/dscm	7%O2	3.10e-3	lbs/hr	CC7%O2
Cadmium	401C1R2	ND	2.15e+1	ug/dscm	7%O2	4.80e-3	lbs/hr	CC7%O2
Cadmium	401C1R3	ND	3.62e+1	ug/dscm	7%O2	7.60e-3	lbs/hr	CC7%O2
Cadmium	401C1R4	ND	1.33e+1	ug/dscm	7%O2	2.90e-3	lbs/hr	CC7%O2
Cadmium	401C5R1	ND	1.23e+0	ug/dscm	7%O2	3.21e-4	lbs/hr	CC7%O2
Cadmium	401C5R2	ND	1.89e+1	ug/dscm	7%O2	4.95e-3	lbs/hr	CC7%O2
Cadmium	401C5R3	ND	2.53e+1	ug/dscm	7%O2	5.60e-3	lbs/hr	CC7%O2
Cadmium	401C5R4	ND	2.57e+1	ug/dscm	7%O2	5.67e-3	lbs/hr	CC7%O2
Chromium	401C1R1	ND	7.39e+0	ug/dscm	7%O2	1.60e-3	lbs/hr	CC7%O2
Chromium	401C1R2	ND	6.72e+0	ug/dscm	7%O2	1.50e-3	lbs/hr	CC7%O2
Chromium	401C1R3	ND	6.68e+0	ug/dscm	7%O2	1.40e-3	lbs/hr	CC7%O2
Chromium	401C1R4	ND	1.29e+1	ug/dscm	7%O2	2.80e-3	lbs/hr	CC7%O2
Chromium	401C5R1		6.21e+0	ug/dscm	7%O2	1.62e-3	lbs/hr	CC7%O2
Chromium	401C5R2	ND	4.99e+1	ug/dscm	7%O2	1.31e-2	lbs/hr	CC7%O2
Chromium	401C5R3		2.86e+1	ug/dscm	7%O2	6.34e-3	lbs/hr	CC7%O2
Chromium	401C5R4		1.37e+1	ug/dscm	7%O2	3.03e-3	lbs/hr	CC7%O2
Chromium (Hex)	401C1R1		4.52e+0	ug/dscm	7%O2	9.80e-4	lbs/hr	CC7%O2
Chromium (Hex)	401C1R2		6.27e+0	ug/dscm	7%O2	1.40e-3	lbs/hr	CC7%O2
Chromium (Hex)	401C1R3		1.86e+0	ug/dscm	7%O2	3.90e-4	lbs/hr	CC7%O2
Chromium (Hex)	401C1R4		8.74e+0	ug/dscm	7%O2	1.90e-3	lbs/hr	CC7%O2
Chromium (Hex)	401C5R1	ND	2.72e+2	ug/dscm	7%O2	7.10e-2	lbs/hr	CC7%O2
Chromium (Hex)	401C5R2	ND	1.71e+2	ug/dscm	7%O2	4.50e-2	lbs/hr	CC7%O2
Chromium (Hex)	401C5R3	ND	3.16e+2	ug/dscm	7%O2	7.00e-2	lbs/hr	CC7%O2
Chromium (Hex)	401C5R4	ND	2.54e+2	ug/dscm	7%O2	5.60e-2	lbs/hr	CC7%O2
Lead	401C1R1	ND	2.63e+2	ug/dscm	7%O2	5.70e-2	lbs/hr	CC7%O2
Lead	401C1R2	ND	1.97e+2	ug/dscm	7%O2	4.40e-2	lbs/hr	CC7%O2
Lead	401C1R3		6.68e+2	ug/dscm	7%O2	1.40e-1	lbs/hr	CC7%O2
Lead	401C1R4	ND	3.13e+2	ug/dscm	7%O2	6.80e-2	lbs/hr	CC7%O2
Lead	401C5R1		6.21e+2	ug/dscm	7%O2	1.62e-1	lbs/hr	CC7%O2
Lead	401C5R2		1.99e+3	ug/dscm	7%O2	5.23e-1	lbs/hr	CC7%O2
Lead	401C5R3		4.21e+3	ug/dscm	7%O2	9.33e-1	lbs/hr	CC7%O2
Lead	401C5R4		9.69e+2	ug/dscm	7%O2	2.14e-1	lbs/hr	CC7%O2
Mercury	401C1R1		4.39e+1	ug/dscm	7%O2	9.50e-3	lbs/hr	CC7%O2
Mercury	401C1R2		9.86e+1	ug/dscm	7%O2	2.20e-2	lbs/hr	CC7%O2
Mercury	401C1R3		3.82e+2	ug/dscm	7%O2	8.00e-2	lbs/hr	CC7%O2
Mercury	401C1R4		6.90e+1	ug/dscm	7%O2	1.50e-2	lbs/hr	CC7%O2
Mercury	401C5R1		4.07e+1	ug/dscm	7%O2	1.06e-2	lbs/hr	CC7%O2
Mercury	401C5R2	ND	1.95e+1	ug/dscm	7%O2	5.12e-3	lbs/hr	CC7%O2
Mercury	401C5R3	ND	3.42e+1	ug/dscm	7%O2	7.57e-3	lbs/hr	CC7%O2
Mercury	401C5R4	ND	5.02e+1	ug/dscm	7%O2	1.11e-2	lbs/hr	CC7%O2

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ASH GROVE CEMENT COMPANY
 2. STATE: KS
 3. CITY: CHANUTE
 4. EP ID: 401 DEVICE NAME: KILN NO. 1

EPA ID: KSD031203318
 SYSTEM TYPE: CEMENT KILN

REGION: 7
 APC SYSTEM: ESP

Silver	401C1R1	ND	3.37e+0	ug/dscm	7%O2	7.30e-4	lbs/hr	CC7%O2
Silver	401C1R2	ND	3.90e+0	ug/dscm	7%O2	8.70e-4	lbs/hr	CC7%O2
Silver	401C1R3	ND	5.72e+0	ug/dscm	7%O2	1.20e-3	lbs/hr	CC7%O2
Silver	401C1R4	ND	3.49e+0	ug/dscm	7%O2	7.60e-4	lbs/hr	CC7%O2
Silver	401C5R1	ND	1.34e+0	ug/dscm	7%O2	3.50e-4	lbs/hr	CC7%O2
Silver	401C5R2	ND	1.26e+0	ug/dscm	7%O2	3.31e-4	lbs/hr	CC7%O2
Silver	401C5R3	ND	3.67e+0	ug/dscm	7%O2	8.12e-4	lbs/hr	CC7%O2
Silver	401C5R4	ND	1.50e+0	ug/dscm	7%O2	3.32e-4	lbs/hr	CC7%O2
Thallium	401C1R1	ND	1.29e+1	ug/dscm	7%O2	2.80e-3	lbs/hr	CC7%O2
Thallium	401C1R2	ND	1.25e+1	ug/dscm	7%O2	2.80e-3	lbs/hr	CC7%O2
Thallium	401C1R3	ND	1.38e+1	ug/dscm	7%O2	2.90e-3	lbs/hr	CC7%O2
Thallium	401C1R4	ND	1.33e+1	ug/dscm	7%O2	2.90e-3	lbs/hr	CC7%O2
Thallium	401C5R1	ND	1.27e+0	ug/dscm	7%O2	3.32e-4	lbs/hr	CC7%O2
Thallium	401C5R2	ND	1.06e+0	ug/dscm	7%O2	2.79e-4	lbs/hr	CC7%O2
Thallium	401C5R3	ND	1.56e+0	ug/dscm	7%O2	3.46e-4	lbs/hr	CC7%O2
Thallium	401C5R4	ND	1.11e+0	ug/dscm	7%O2	2.45e-4	lbs/hr	CC7%O2

7. Category: PAH

Analysis:

8. Substance	9. Run ID		Concentration		Mass Rate	Calc	
Acenaphthene	401C3R1	ND	4.84e+2	ng/dscm	7%O2	1.17e-4 lbs/hr	CE
Acenaphthene	401C3R2	ND	4.16e+2	ng/dscm	7%O2	1.01e-4 lbs/hr	CE
Acenaphthene	401C3R3	ND	5.88e+2	ng/dscm	7%O2	2.19e-4 lbs/hr	CE
Acenaphthene	401C4R1	ND	3.99e+2	ng/dscm	7%O2	7.50e-5 lbs/hr	CE
Acenaphthene	401C4R2	ND	6.36e+2	ng/dscm	7%O2	1.08e-4 lbs/hr	CE
Acenaphthene	401C4R3	2	3.40e+2	ng/dscm	7%O2	6.94e-5 lbs/hr	CE
Acenaphthene	401C4R4	ND	6.24e+2	ng/dscm	7%O2	1.06e-4 lbs/hr	CE
Acenaphthene	401C5R1	ND	7.13e+2	ng/dscm	7%O2	1.86e-4 lbs/hr	CE
Acenaphthene	401C5R2	2	3.63e+2	ng/dscm	7%O2	9.54e-5 lbs/hr	CE
Acenaphthene	401C5R3	2	4.90e+2	ng/dscm	7%O2	1.09e-4 lbs/hr	CE
Acenaphthene	401C5R4	2	4.97e+2	ng/dscm	7%O2	1.10e-4 lbs/hr	CE
Acenaphthylene	401C2R1		3.14e+3	ng/dscm	7%O2	7.58e-4 lbs/hr	CE7%O2
Acenaphthylene	401C2R2		3.78e+3	ng/dscm	7%O2	9.40e-4 lbs/hr	CE7%O2
Acenaphthylene	401C2R3		4.03e+3	ng/dscm	7%O2	8.73e-4 lbs/hr	CE7%O2
Acenaphthylene	401C2R4		4.33e+3	ng/dscm	7%O2	9.75e-4 lbs/hr	CE7%O2
Acenaphthylene	401C3R1	ND	2.81e+2	ng/dscm	7%O2	6.79e-5 lbs/hr	CE
Acenaphthylene	401C3R2		1.29e+4	ng/dscm	7%O2	3.12e-3 lbs/hr	CE
Acenaphthylene	401C3R3		1.06e+4	ng/dscm	7%O2	3.95e-3 lbs/hr	CE
Acenaphthylene	401C4R1	ND	2.34e+2	ng/dscm	7%O2	4.40e-5 lbs/hr	CE
Acenaphthylene	401C4R2		9.69e+3	ng/dscm	7%O2	1.64e-3 lbs/hr	CE
Acenaphthylene	401C4R3	2	2.12e+3	ng/dscm	7%O2	4.33e-4 lbs/hr	CE
Acenaphthylene	401C4R4		8.04e+3	ng/dscm	7%O2	1.37e-3 lbs/hr	CE
Acenaphthylene	401C5R1	2	2.21e+3	ng/dscm	7%O2	5.77e-4 lbs/hr	CE
Acenaphthylene	401C5R2	2	3.20e+3	ng/dscm	7%O2	8.41e-4 lbs/hr	CE
Acenaphthylene	401C5R3	2	4.60e+3	ng/dscm	7%O2	1.02e-3 lbs/hr	CE
Acenaphthylene	401C5R4	2	4.51e+2	ng/dscm	7%O2	9.97e-5 lbs/hr	CE
Anthracene	401C3R1	ND	2.03e+2	ng/dscm	7%O2	4.90e-5 lbs/hr	CE
Anthracene	401C3R2	2	2.72e+3	ng/dscm	7%O2	6.58e-4 lbs/hr	CE
Anthracene	401C3R3	ND	2.58e+2	ng/dscm	7%O2	9.60e-5 lbs/hr	CE
Anthracene	401C4R1	ND	1.74e+2	ng/dscm	7%O2	3.27e-5 lbs/hr	CE
Anthracene	401C4R2	2	8.43e+2	ng/dscm	7%O2	1.43e-4 lbs/hr	CE
Anthracene	401C4R3	2	6.45e+2	ng/dscm	7%O2	1.32e-4 lbs/hr	CE
Anthracene	401C4R4	ND	3.17e+2	ng/dscm	7%O2	5.39e-5 lbs/hr	CE
Anthracene	401C5R1	2	7.62e+2	ng/dscm	7%O2	1.99e-4 lbs/hr	CE
Anthracene	401C5R2	2	1.52e+3	ng/dscm	7%O2	4.00e-4 lbs/hr	CE
Anthracene	401C5R3	2	2.26e+3	ng/dscm	7%O2	5.01e-4 lbs/hr	CE
Anthracene	401C5R4	2	1.23e+3	ng/dscm	7%O2	2.72e-4 lbs/hr	CE
Benzo(a)anthracene	401C3R1	ND	1.79e+2	ng/dscm	7%O2	4.32e-5 lbs/hr	CE
Benzo(a)anthracene	401C3R2	2	5.97e+2	ng/dscm	7%O2	1.44e-4 lbs/hr	CE
Benzo(a)anthracene	401C3R3	ND	2.37e+2	ng/dscm	7%O2	8.82e-5 lbs/hr	CE
Benzo(a)anthracene	401C4R1	ND	1.69e+2	ng/dscm	7%O2	3.18e-5 lbs/hr	CE
Benzo(a)anthracene	401C4R2	ND	2.65e+2	ng/dscm	7%O2	4.48e-5 lbs/hr	CE

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ASH GROVE CEMENT COMPANY

2. STATE: KS

3. CITY: CHANUTE

EPA ID: KSD031203318

REGION: 7

4. EP ID: 401 DEVICE NAME: KILN NO. 1

SYSTEM TYPE: CEMENT KILN

APC SYSTEM: ESP

Benzo(a)anthracene	401C4R3	ND	2.15e+2	ng/dscm	7%O2	4.39e-5	lbs/hr	CE
Benzo(a)anthracene	401C4R4	ND	2.53e+2	ng/dscm	7%O2	4.30e-5	lbs/hr	CE
Benzo(a)anthracene	401C5R1	ND	3.03e+2	ng/dscm	7%O2	7.91e-5	lbs/hr	CE
Benzo(a)anthracene	401C5R2	2	4.44e+2	ng/dscm	7%O2	1.17e-4	lbs/hr	CE
Benzo(a)anthracene	401C5R3	2	5.98e+2	ng/dscm	7%O2	1.33e-4	lbs/hr	CE
Benzo(a)anthracene	401C5R4	2	6.19e+2	ng/dscm	7%O2	1.37e-4	lbs/hr	CE
Benzo(a)pyrene	401C3R1	ND	1.18e+3	ng/dscm	7%O2	2.85e-4	lbs/hr	CE
Benzo(a)pyrene	401C3R2	ND	2.52e+2	ng/dscm	7%O2	6.10e-5	lbs/hr	CE
Benzo(a)pyrene	401C3R3	ND	3.44e+2	ng/dscm	7%O2	1.28e-4	lbs/hr	CE
Benzo(a)pyrene	401C4R1	ND	1.16e+4	ng/dscm	7%O2	2.18e-3	lbs/hr	CE
Benzo(a)pyrene	401C4R2	ND	2.33e+2	ng/dscm	7%O2	3.94e-5	lbs/hr	CE
Benzo(a)pyrene	401C4R3	ND	1.98e+2	ng/dscm	7%O2	4.04e-5	lbs/hr	CE
Benzo(a)pyrene	401C4R4	ND	2.37e+2	ng/dscm	7%O2	4.03e-5	lbs/hr	CE
Benzo(a)pyrene	401C5R1	ND	4.05e+2	ng/dscm	7%O2	1.06e-4	lbs/hr	CE
Benzo(a)pyrene	401C5R2	ND	3.32e+2	ng/dscm	7%O2	8.73e-5	lbs/hr	CE
Benzo(a)pyrene	401C5R3	ND	4.28e+2	ng/dscm	7%O2	9.49e-5	lbs/hr	CE
Benzo(a)pyrene	401C5R4	ND	5.99e+2	ng/dscm	7%O2	1.32e-4	lbs/hr	CE
Benzo(b)fluoranthene	401C3R1	2	1.03e+3	ng/dscm	7%O2	2.49e-4	lbs/hr	CE
Benzo(b)fluoranthene	401C3R2	2	4.98e+2	ng/dscm	7%O2	1.21e-4	lbs/hr	CE
Benzo(b)fluoranthene	401C3R3	2	5.31e+2	ng/dscm	7%O2	1.98e-4	lbs/hr	CE
Benzo(b)fluoranthene	401C4R1	ND	5.08e+4	ng/dscm	7%O2	9.55e-3	lbs/hr	CE
Benzo(b)fluoranthene	401C4R2	2	3.98e+2	ng/dscm	7%O2	6.73e-5	lbs/hr	CE
Benzo(b)fluoranthene	401C4R3	2	2.45e+2	ng/dscm	7%O2	5.00e-5	lbs/hr	CE
Benzo(b)fluoranthene	401C4R4	2	7.69e+2	ng/dscm	7%O2	1.31e-4	lbs/hr	CE
Benzo(b)fluoranthene	401C5R1	ND	3.61e+2	ng/dscm	7%O2	9.42e-5	lbs/hr	CE
Benzo(b)fluoranthene	401C5R2	ND	4.66e+2	ng/dscm	7%O2	1.23e-4	lbs/hr	CE
Benzo(b)fluoranthene	401C5R3	2	5.36e+2	ng/dscm	7%O2	1.19e-4	lbs/hr	CE
Benzo(b)fluoranthene	401C5R4	2	9.54e+2	ng/dscm	7%O2	2.11e-4	lbs/hr	CE
Benzo(g,h,i)perylene	401C3R1	ND	2.30e+3	ng/dscm	7%O2	5.56e-4	lbs/hr	CE
Benzo(g,h,i)perylene	401C3R2	ND	4.93e+2	ng/dscm	7%O2	1.19e-4	lbs/hr	CE
Benzo(g,h,i)perylene	401C3R3	ND	6.67e+2	ng/dscm	7%O2	2.48e-4	lbs/hr	CE
Benzo(g,h,i)perylene	401C4R1	ND	2.28e+4	ng/dscm	7%O2	4.29e-3	lbs/hr	CE
Benzo(g,h,i)perylene	401C4R2	ND	2.17e+2	ng/dscm	7%O2	3.67e-5	lbs/hr	CE
Benzo(g,h,i)perylene	401C4R3	ND	1.85e+2	ng/dscm	7%O2	3.77e-5	lbs/hr	CE
Benzo(g,h,i)perylene	401C4R4	ND	2.26e+2	ng/dscm	7%O2	3.84e-5	lbs/hr	CE
Benzo(g,h,i)perylene	401C5R1	ND	7.97e+2	ng/dscm	7%O2	2.08e-4	lbs/hr	CE
Benzo(g,h,i)perylene	401C5R2	ND	6.46e+2	ng/dscm	7%O2	1.70e-4	lbs/hr	CE
Benzo(g,h,i)perylene	401C5R3	ND	8.40e+2	ng/dscm	7%O2	1.86e-4	lbs/hr	CE
Benzo(g,h,i)perylene	401C5R4	ND	1.18e+3	ng/dscm	7%O2	2.61e-4	lbs/hr	CE
Benzo(k)fluoranthene	401C3R1	ND	1.11e+3	ng/dscm	7%O2	2.68e-4	lbs/hr	CE
Benzo(k)fluoranthene	401C3R2	ND	2.35e+2	ng/dscm	7%O2	5.69e-5	lbs/hr	CE
Benzo(k)fluoranthene	401C3R3	ND	3.23e+2	ng/dscm	7%O2	1.20e-4	lbs/hr	CE
Benzo(k)fluoranthene	401C4R1	ND	1.09e+4	ng/dscm	7%O2	2.05e-3	lbs/hr	CE
Benzo(k)fluoranthene	401C4R2	ND	2.28e+2	ng/dscm	7%O2	3.86e-5	lbs/hr	CE
Benzo(k)fluoranthene	401C4R3	ND	1.93e+2	ng/dscm	7%O2	3.94e-5	lbs/hr	CE
Benzo(k)fluoranthene	401C4R4	ND	2.37e+2	ng/dscm	7%O2	4.03e-5	lbs/hr	CE
Benzo(k)fluoranthene	401C5R1	ND	3.83e+2	ng/dscm	7%O2	1.00e-4	lbs/hr	CE
Benzo(k)fluoranthene	401C5R2	ND	3.09e+2	ng/dscm	7%O2	8.12e-5	lbs/hr	CE
Benzo(k)fluoranthene	401C5R3	ND	4.02e+2	ng/dscm	7%O2	8.92e-5	lbs/hr	CE
Benzo(k)fluoranthene	401C5R4	ND	5.63e+2	ng/dscm	7%O2	1.25e-4	lbs/hr	CE
Chrysene	401C3R1	2	7.64e+2	ng/dscm	7%O2	1.85e-4	lbs/hr	CE
Chrysene	401C3R2	2	7.67e+2	ng/dscm	7%O2	1.86e-4	lbs/hr	CE
Chrysene	401C3R3	ND	1.77e+3	ng/dscm	7%O2	6.59e-4	lbs/hr	CE
Chrysene	401C4R1	2	1.32e+3	ng/dscm	7%O2	2.48e-4	lbs/hr	CE
Chrysene	401C4R2	2	7.43e+2	ng/dscm	7%O2	1.26e-4	lbs/hr	CE
Chrysene	401C4R3	2	6.32e+2	ng/dscm	7%O2	1.29e-4	lbs/hr	CE
Chrysene	401C4R4	2	1.45e+3	ng/dscm	7%O2	2.46e-4	lbs/hr	CE
Chrysene	401C5R1	ND	3.16e+2	ng/dscm	7%O2	8.25e-5	lbs/hr	CE
Chrysene	401C5R2	2	6.50e+2	ng/dscm	7%O2	1.71e-4	lbs/hr	CE
Chrysene	401C5R3	2	7.17e+2	ng/dscm	7%O2	1.59e-4	lbs/hr	CE
Chrysene	401C5R4	2	7.25e+2	ng/dscm	7%O2	1.60e-4	lbs/hr	CE
Dibenz(a,h)anthracene	401C3R1	ND	2.26e+3	ng/dscm	7%O2	5.46e-4	lbs/hr	CE

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ASH GROVE CEMENT COMPANY
 2. STATE: KS
 3. CITY: CHANUTE
 4. EP ID: 401 DEVICE NAME: KILN NO. 1

EPA KSD031203318
 SYSTEM TYPE: CEMENT KILN

APC SYSTEM: ESP REGION: 7

Dibenz(a,h)anthracene	401C3R2	ND	4.87e+2	ng/dscm	7%O2	1.18e-4	lbs/hr	CE
Dibenz(a,h)anthracene	401C3R3	ND	6.60e+2	ng/dscm	7%O2	2.46e-4	lbs/hr	CE
Dibenz(a,h)anthracene	401C4R1	ND	2.24e+4	ng/dscm	7%O2	4.21e-3	lbs/hr	CE
Dibenz(a,h)anthracene	401C4R2	ND	2.65e+2	ng/dscm	7%O2	4.48e-5	lbs/hr	CE
Dibenz(a,h)anthracene	401C4R3	ND	2.28e+2	ng/dscm	7%O2	4.65e-5	lbs/hr	CE
Dibenz(a,h)anthracene	401C4R4	ND	2.74e+2	ng/dscm	7%O2	4.65e-5	lbs/hr	CE
Dibenz(a,h)anthracene	401C5R1	ND	7.84e+2	ng/dscm	7%O2	2.05e-4	lbs/hr	CE
Dibenz(a,h)anthracene	401C5R2	ND	6.37e+2	ng/dscm	7%O2	1.67e-4	lbs/hr	CE
Dibenz(a,h)anthracene	401C5R3	ND	8.30e+2	ng/dscm	7%O2	1.84e-4	lbs/hr	CE
Dibenz(a,h)anthracene	401C5R4	ND	1.16e+3	ng/dscm	7%O2	2.57e-4	lbs/hr	CE
Fluoranthene	401C3R1	2	3.28e+3	ng/dscm	7%O2	7.92e-4	lbs/hr	CE
Fluoranthene	401C3R2	2	7.16e+3	ng/dscm	7%O2	1.73e-3	lbs/hr	CE
Fluoranthene	401C3R3		9.30e+3	ng/dscm	7%O2	3.46e-3	lbs/hr	CE
Fluoranthene	401C4R1		1.73e+4	ng/dscm	7%O2	3.25e-3	lbs/hr	CE
Fluoranthene	401C4R2	2	5.13e+3	ng/dscm	7%O2	8.67e-4	lbs/hr	CE
Fluoranthene	401C4R3	2	4.08e+3	ng/dscm	7%O2	8.32e-4	lbs/hr	CE
Fluoranthene	401C4R4		1.67e+4	ng/dscm	7%O2	2.84e-3	lbs/hr	CE
Fluoranthene	401C5R1	2	2.02e+3	ng/dscm	7%O2	5.27e-4	lbs/hr	CE
Fluoranthene	401C5R2	2	2.96e+3	ng/dscm	7%O2	7.78e-4	lbs/hr	CE
Fluoranthene	401C5R3	2	4.21e+3	ng/dscm	7%O2	9.34e-4	lbs/hr	CE
Fluoranthene	401C5R4	2	4.24e+3	ng/dscm	7%O2	9.38e-4	lbs/hr	CE
Fluorene	401C3R1	2	2.19e+3	ng/dscm	7%O2	5.29e-4	lbs/hr	CE
Fluorene	401C3R2	2	3.08e+3	ng/dscm	7%O2	7.45e-4	lbs/hr	CE
Fluorene	401C3R3		3.06e+3	ng/dscm	7%O2	1.14e-3	lbs/hr	CE
Fluorene	401C4R1	2	2.73e+3	ng/dscm	7%O2	5.13e-4	lbs/hr	CE
Fluorene	401C4R2	2	1.81e+3	ng/dscm	7%O2	3.06e-4	lbs/hr	CE
Fluorene	401C4R3	2	1.63e+3	ng/dscm	7%O2	3.33e-4	lbs/hr	CE
Fluorene	401C4R4	2	3.47e+3	ng/dscm	7%O2	5.90e-4	lbs/hr	CE
Fluorene	401C5R1	2	1.39e+3	ng/dscm	7%O2	3.63e-4	lbs/hr	CE
Fluorene	401C5R2	2	2.00e+3	ng/dscm	7%O2	5.26e-4	lbs/hr	CE
Fluorene	401C5R3	2	2.69e+3	ng/dscm	7%O2	5.97e-4	lbs/hr	CE
Fluorene	401C5R4	2	3.07e+3	ng/dscm	7%O2	6.79e-4	lbs/hr	CE
Indeno(1,2,3-cd)pyrene	401C3R1	ND	1.76e+3	ng/dscm	7%O2	4.25e-4	lbs/hr	CE
Indeno(1,2,3-cd)pyrene	401C3R2	ND	3.78e+2	ng/dscm	7%O2	9.15e-5	lbs/hr	CE
Indeno(1,2,3-cd)pyrene	401C3R3	ND	5.09e+2	ng/dscm	7%O2	1.89e-4	lbs/hr	CE
Indeno(1,2,3-cd)pyrene	401C4R1	ND	1.74e+4	ng/dscm	7%O2	3.27e-3	lbs/hr	CE
Indeno(1,2,3-cd)pyrene	401C4R2	ND	1.96e+2	ng/dscm	7%O2	3.31e-5	lbs/hr	CE
Indeno(1,2,3-cd)pyrene	401C4R3	ND	1.68e+2	ng/dscm	7%O2	3.43e-5	lbs/hr	CE
Indeno(1,2,3-cd)pyrene	401C4R4	ND	2.04e+2	ng/dscm	7%O2	3.47e-5	lbs/hr	CE
Indeno(1,2,3-cd)pyrene	401C5R1	ND	6.10e+2	ng/dscm	7%O2	1.59e-4	lbs/hr	CE
Indeno(1,2,3-cd)pyrene	401C5R2	ND	4.93e+2	ng/dscm	7%O2	1.30e-4	lbs/hr	CE
Indeno(1,2,3-cd)pyrene	401C5R3	ND	6.45e+2	ng/dscm	7%O2	1.43e-4	lbs/hr	CE
Indeno(1,2,3-cd)pyrene	401C5R4	ND	8.98e+2	ng/dscm	7%O2	1.99e-4	lbs/hr	CE
Naphthalene	401C2R1		1.10e+5	ng/dscm	7%O2	2.66e-2	lbs/hr	CE7%O2
Naphthalene	401C2R2		1.37e+5	ng/dscm	7%O2	3.40e-2	lbs/hr	CE7%O2
Naphthalene	401C2R3		1.54e+5	ng/dscm	7%O2	3.34e-2	lbs/hr	CE7%O2
Naphthalene	401C2R4		1.24e+5	ng/dscm	7%O2	2.79e-2	lbs/hr	CE7%O2
Naphthalene	401C3R1		6.66e+4	ng/dscm	7%O2	1.61e-2	lbs/hr	CE
Naphthalene	401C3R2		1.29e+5	ng/dscm	7%O2	3.12e-2	lbs/hr	CE
Naphthalene	401C3R3		1.11e+5	ng/dscm	7%O2	4.13e-2	lbs/hr	CE
Naphthalene	401C4R1		1.39e+5	ng/dscm	7%O2	2.61e-2	lbs/hr	CE
Naphthalene	401C4R2		6.83e+4	ng/dscm	7%O2	1.15e-2	lbs/hr	CE
Naphthalene	401C4R3		4.31e+4	ng/dscm	7%O2	8.79e-3	lbs/hr	CE
Naphthalene	401C4R4		1.39e+5	ng/dscm	7%O2	2.36e-2	lbs/hr	CE
Naphthalene	401C5R1		2.76e+4	ng/dscm	7%O2	7.20e-3	lbs/hr	CE
Naphthalene	401C5R2		5.54e+4	ng/dscm	7%O2	1.46e-2	lbs/hr	CE
Naphthalene	401C5R3		6.53e+4	ng/dscm	7%O2	1.45e-2	lbs/hr	CE
Naphthalene	401C5R4		7.78e+4	ng/dscm	7%O2	1.72e-2	lbs/hr	CE
Phenanthrene	401C2R1		2.88e+4	ng/dscm	7%O2	6.95e-3	lbs/hr	CE7%O2
Phenanthrene	401C3R1		1.64e+4	ng/dscm	7%O2	3.96e-3	lbs/hr	CE
Phenanthrene	401C3R2		3.25e+4	ng/dscm	7%O2	7.87e-3	lbs/hr	CE
Phenanthrene	401C3R3		3.18e+4	ng/dscm	7%O2	1.18e-2	lbs/hr	CE
Phenanthrene	401C4R1		2.84e+4	ng/dscm	7%O2	5.34e-3	lbs/hr	CE

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ASH GROVE CEMENT COMPANY
 2. STATE: KS
 3. CITY: CHANUTE
 4. EP ID: 401 DEVICE NAME: KILN NO. 1

EPA ID: KSD031203318
 SYSTEM TYPE: CEMENT KILN

APC SYSTEM: ESP

REGION: 7

Phenanthrene	401C4R2		1.40e+4	ng/dscm 7%O2	2.37e-3	lbs/hr	CE
Phenanthrene	401C4R3		1.23e+4	ng/dscm 7%O2	2.51e-3	lbs/hr	CE
Phenanthrene	401C4R4		3.27e+4	ng/dscm 7%O2	5.56e-3	lbs/hr	CE
Phenanthrene	401C5R1		9.86e+3	ng/dscm 7%O2	2.57e-3	lbs/hr	CE
Phenanthrene	401C5R2		1.53e+4	ng/dscm 7%O2	4.02e-3	lbs/hr	CE
Phenanthrene	401C5R3		2.16e+4	ng/dscm 7%O2	4.79e-3	lbs/hr	CE
Phenanthrene	401C5R4		2.07e+4	ng/dscm 7%O2	4.58e-3	lbs/hr	CE
Pyrene	401C3R1	2	2.99e+3	ng/dscm 7%O2	7.22e-4	lbs/hr	CE
Pyrene	401C3R2		9.03e+3	ng/dscm 7%O2	2.19e-3	lbs/hr	CE
Pyrene	401C3R3	2	9.82e+3	ng/dscm 7%O2	3.66e-3	lbs/hr	CE
Pyrene	401C4R1	ND	1.50e+2	ng/dscm 7%O2	2.82e-5	lbs/hr	CE
Pyrene	401C4R2	2	2.80e+3	ng/dscm 7%O2	4.73e-4	lbs/hr	CE
Pyrene	401C4R3	2	3.36e+3	ng/dscm 7%O2	6.86e-4	lbs/hr	CE
Pyrene	401C4R4		1.62e+4	ng/dscm 7%O2	2.75e-3	lbs/hr	CE
Pyrene	401C5R1	2	1.68e+3	ng/dscm 7%O2	4.39e-4	lbs/hr	CE
Pyrene	401C5R2	2	2.72e+3	ng/dscm 7%O2	7.15e-4	lbs/hr	CE
Pyrene	401C5R3	2	3.87e+3	ng/dscm 7%O2	8.58e-4	lbs/hr	CE
Pyrene	401C5R4	2	3.77e+3	ng/dscm 7%O2	8.34e-4	lbs/hr	CE

7. Category: Particulate

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Particulate	401C1R1	3.75e-2 gr/dscf 7%O2	1.87e+1 lbs/hr	
Particulate	401C1R2	4.79e-2 gr/dscf 7%O2	2.38e+1 lbs/hr	
Particulate	401C1R3	4.60e-2 gr/dscf 7%O2	2.24e+1 lbs/hr	
Particulate	401C1R4	6.09e-2 gr/dscf 7%O2	3.25e+1 lbs/hr	
Particulate	401C3R1	5.30e-2 gr/dscf 7%O2	2.93e+1 lbs/hr	CE
Particulate	401C3R2	5.10e-2 gr/dscf 7%O2	2.83e+1 lbs/hr	CE
Particulate	401C3R3	4.20e-2 gr/dscf 7%O2	3.58e+1 lbs/hr	CE
Particulate	401C4R1	3.19e-2 gr/dscf 7%O2	1.37e+1 lbs/hr	CE
Particulate	401C4R2	5.09e-2 gr/dscf 7%O2	1.97e+1 lbs/hr	CE
Particulate	401C4R3	5.11e-2 gr/dscf 7%O2	2.39e+1 lbs/hr	CE
Particulate	401C4R4	3.00e-2 gr/dscf 7%O2	1.17e+1 lbs/hr	CE
Particulate	401C5R1	6.33e-2 gr/dscf 7%O2	3.78e+1 lbs/hr	CE
Particulate	401C5R2	7.24e-2 gr/dscf 7%O2	4.36e+1 lbs/hr	CE
Particulate	401C5R3	1.05e-1 gr/dscf 7%O2	5.34e+1 lbs/hr	CE
Particulate	401C5R4	6.56e-2 gr/dscf 7%O2	3.32e+1 lbs/hr	CE

7. Category: SVOC

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc	
1,2,4-Trichlorobenzene	401C2R1	ND 7.13e+1 ng/dscm 7%O2	1.72e-5 lbs/hr	CC7%O2	
1,2,4-Trichlorobenzene	401C2R2	ND 1.07e+2 ng/dscm 7%O2	2.65e-5 lbs/hr	CC7%O2	
1,2,4-Trichlorobenzene	401C2R3	ND 1.16e+2 ng/dscm 7%O2	2.51e-5 lbs/hr	CC7%O2	
1,2,4-Trichlorobenzene	401C2R4	ND 1.18e+2 ng/dscm 7%O2	2.65e-5 lbs/hr	CC7%O2	
1,2,4-Trichlorobenzene	401C3R1	ND 1.14e+3 ng/dscm 7%O2	2.75e-4 lbs/hr	CE	
1,2,4-Trichlorobenzene	401C3R2	ND 9.47e+2 ng/dscm 7%O2	2.29e-4 lbs/hr	CE	
1,2,4-Trichlorobenzene	401C3R3	ND 1.30e+3 ng/dscm 7%O2	4.84e-4 lbs/hr	CE	
1,2,4-Trichlorobenzene	401C4R1	ND 9.02e+2 ng/dscm 7%O2	1.70e-4 lbs/hr	CE	
1,2,4-Trichlorobenzene	401C4R2	ND 1.29e+3 ng/dscm 7%O2	2.18e-4 lbs/hr	CE	
1,2,4-Trichlorobenzene	401C4R3	ND 1.06e+3 ng/dscm 7%O2	2.16e-4 lbs/hr	CE	
1,2,4-Trichlorobenzene	401C4R4	ND 1.28e+3 ng/dscm 7%O2	2.17e-4 lbs/hr	CE	
1,2,4-Trichlorobenzene	401C5R1	ND 1.56e+3 ng/dscm 7%O2	4.07e-4 lbs/hr	CE	
1,2,4-Trichlorobenzene	401C5R2	ND 1.36e+3 ng/dscm 7%O2	3.58e-4 lbs/hr	CE	
1,2,4-Trichlorobenzene	401C5R3	ND 1.84e+3 ng/dscm 7%O2	4.08e-4 lbs/hr	CE	
1,2,4-Trichlorobenzene	401C5R4	ND 1.91e+3 ng/dscm 7%O2	4.22e-4 lbs/hr	CE	
1,2-Dichlorobenzene	401C3R1		6.68e+3 ng/dscm 7%O2	1.61e-3 lbs/hr	CE
1,2-Dichlorobenzene	401C3R2		1.01e+4 ng/dscm 7%O2	2.44e-3 lbs/hr	CE
1,2-Dichlorobenzene	401C3R3	2	1.74e+3 ng/dscm 7%O2	6.48e-4 lbs/hr	CE
1,2-Dichlorobenzene	401C4R1	2	3.42e+3 ng/dscm 7%O2	6.43e-4 lbs/hr	CE
1,2-Dichlorobenzene	401C4R2	2	3.69e+3 ng/dscm 7%O2	6.24e-4 lbs/hr	CE

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ASH GROVE CEMENT COMPANY
 2. STATE: KS
 3. CITY: CHANUTE
 4. EP ID: 401 DEVICE NAME: KILN NO. 1

EPA KSD031203318
 SYSTEM TYPE: CEMENT KILN

REGION: 7
 APC SYSTEM: ESP

1,2-Dichlorobenzene	401C4R3	2	2.70e+3	ng/dscm	7%O2	5.51e-4	lbs/hr	CE
1,2-Dichlorobenzene	401C4R4	2	7.96e+2	ng/dscm	7%O2	1.35e-4	lbs/hr	CE
1,2-Dichlorobenzene	401C5R1	ND	1.41e+3	ng/dscm	7%O2	3.68e-4	lbs/hr	CE
1,2-Dichlorobenzene	401C5R2	ND	1.26e+3	ng/dscm	7%O2	3.31e-4	lbs/hr	CE
1,2-Dichlorobenzene	401C5R3	ND	1.71e+3	ng/dscm	7%O2	3.79e-4	lbs/hr	CE
1,2-Dichlorobenzene	401C5R4	ND	1.81e+3	ng/dscm	7%O2	4.00e-4	lbs/hr	CE
1,3-Dichlorobenzene	401C3R1	ND	9.14e+2	ng/dscm	7%O2	2.21e-4	lbs/hr	CE
1,3-Dichlorobenzene	401C3R2	ND	7.83e+2	ng/dscm	7%O2	1.89e-4	lbs/hr	CE
1,3-Dichlorobenzene	401C3R3	ND	1.05e+3	ng/dscm	7%O2	3.91e-4	lbs/hr	CE
1,3-Dichlorobenzene	401C4R1	ND	7.33e+2	ng/dscm	7%O2	1.38e-4	lbs/hr	CE
1,3-Dichlorobenzene	401C4R2	ND	1.22e+3	ng/dscm	7%O2	2.06e-4	lbs/hr	CE
1,3-Dichlorobenzene	401C4R3	ND	9.50e+2	ng/dscm	7%O2	1.94e-4	lbs/hr	CE
1,3-Dichlorobenzene	401C4R4	ND	1.15e+3	ng/dscm	7%O2	1.95e-4	lbs/hr	CE
1,3-Dichlorobenzene	401C5R1	ND	1.31e+3	ng/dscm	7%O2	3.42e-4	lbs/hr	CE
1,3-Dichlorobenzene	401C5R2	ND	1.18e+3	ng/dscm	7%O2	3.10e-4	lbs/hr	CE
1,3-Dichlorobenzene	401C5R3	ND	1.59e+3	ng/dscm	7%O2	3.53e-4	lbs/hr	CE
1,3-Dichlorobenzene	401C5R4	ND	1.69e+3	ng/dscm	7%O2	3.74e-4	lbs/hr	CE
1,4-Dichlorobenzene	401C3R1	ND	8.96e+2	ng/dscm	7%O2	2.16e-4	lbs/hr	CE
1,4-Dichlorobenzene	401C3R2	ND	7.67e+2	ng/dscm	7%O2	1.86e-4	lbs/hr	CE
1,4-Dichlorobenzene	401C3R3	ND	1.03e+3	ng/dscm	7%O2	3.83e-4	lbs/hr	CE
1,4-Dichlorobenzene	401C4R1	ND	7.18e+2	ng/dscm	7%O2	1.35e-4	lbs/hr	CE
1,4-Dichlorobenzene	401C4R2	ND	1.18e+3	ng/dscm	7%O2	2.00e-4	lbs/hr	CE
1,4-Dichlorobenzene	401C4R3	ND	9.20e+2	ng/dscm	7%O2	1.88e-4	lbs/hr	CE
1,4-Dichlorobenzene	401C4R4	ND	1.11e+3	ng/dscm	7%O2	1.89e-4	lbs/hr	CE
1,4-Dichlorobenzene	401C5R1	ND	1.29e+3	ng/dscm	7%O2	3.37e-4	lbs/hr	CE
1,4-Dichlorobenzene	401C5R2	ND	1.15e+3	ng/dscm	7%O2	3.02e-4	lbs/hr	CE
1,4-Dichlorobenzene	401C5R3	ND	1.56e+3	ng/dscm	7%O2	3.46e-4	lbs/hr	CE
1,4-Dichlorobenzene	401C5R4	ND	1.65e+3	ng/dscm	7%O2	3.65e-4	lbs/hr	CE
1,4-Phenylenediamine	401C3R1	ND	1.16e+3	ng/dscm	7%O2	2.80e-4	lbs/hr	CE
1,4-Phenylenediamine	401C3R2	ND	9.69e+2	ng/dscm	7%O2	2.35e-4	lbs/hr	CE
1,4-Phenylenediamine	401C3R3	ND	1.33e+3	ng/dscm	7%O2	4.95e-4	lbs/hr	CE
1,4-Phenylenediamine	401C4R1	ND	9.22e+2	ng/dscm	7%O2	1.73e-4	lbs/hr	CE
1,4-Phenylenediamine	401C4R2	ND	1.36e+3	ng/dscm	7%O2	2.30e-4	lbs/hr	CE
1,4-Phenylenediamine	401C4R3	ND	1.12e+3	ng/dscm	7%O2	2.29e-4	lbs/hr	CE
1,4-Phenylenediamine	401C4R4	ND	1.34e+3	ng/dscm	7%O2	2.28e-4	lbs/hr	CE
1,4-Phenylenediamine	401C5R1	ND	1.31e+3	ng/dscm	7%O2	3.42e-4	lbs/hr	CE
1,4-Phenylenediamine	401C5R2	ND	1.15e+3	ng/dscm	7%O2	3.02e-4	lbs/hr	CE
1,4-Phenylenediamine	401C5R3	ND	1.55e+3	ng/dscm	7%O2	3.44e-4	lbs/hr	CE
1,4-Phenylenediamine	401C5R4	ND	1.61e+3	ng/dscm	7%O2	3.56e-4	lbs/hr	CE
2,2-Oxybis(1-chloropropane)	401C3R1	ND	1.54e+3	ng/dscm	7%O2	3.72e-4	lbs/hr	CE
2,2-Oxybis(1-chloropropane)	401C3R2	ND	1.31e+3	ng/dscm	7%O2	3.17e-4	lbs/hr	CE
2,2-Oxybis(1-chloropropane)	401C3R3	ND	1.77e+3	ng/dscm	7%O2	6.59e-4	lbs/hr	CE
2,2-Oxybis(1-chloropropane)	401C4R1	ND	1.23e+3	ng/dscm	7%O2	2.31e-4	lbs/hr	CE
2,2-Oxybis(1-chloropropane)	401C4R2	ND	1.86e+3	ng/dscm	7%O2	3.15e-4	lbs/hr	CE
2,2-Oxybis(1-chloropropane)	401C4R3	ND	1.45e+3	ng/dscm	7%O2	2.96e-4	lbs/hr	CE
2,2-Oxybis(1-chloropropane)	401C4R4	ND	1.75e+3	ng/dscm	7%O2	2.97e-4	lbs/hr	CE
2,2-Oxybis(1-chloropropane)	401C5R1	ND	2.21e+3	ng/dscm	7%O2	5.77e-4	lbs/hr	CE
2,2-Oxybis(1-chloropropane)	401C5R2	ND	1.96e+3	ng/dscm	7%O2	5.15e-4	lbs/hr	CE
2,2-Oxybis(1-chloropropane)	401C5R3	ND	2.68e+3	ng/dscm	7%O2	5.94e-4	lbs/hr	CE
2,2-Oxybis(1-chloropropane)	401C5R4	ND	2.84e+3	ng/dscm	7%O2	6.28e-4	lbs/hr	CE
2,3,4,6-Tetrachlorophenol	401C3R1	ND	2.05e+3	ng/dscm	7%O2	4.95e-4	lbs/hr	CE
2,3,4,6-Tetrachlorophenol	401C3R2	ND	1.76e+3	ng/dscm	7%O2	4.26e-4	lbs/hr	CE
2,3,4,6-Tetrachlorophenol	401C3R3	ND	5.10e+4	ng/dscm	7%O2	1.90e-2	lbs/hr	CE
2,3,4,6-Tetrachlorophenol	401C4R1	ND	1.69e+3	ng/dscm	7%O2	3.18e-4	lbs/hr	CE
2,3,4,6-Tetrachlorophenol	401C4R2	ND	3.71e+3	ng/dscm	7%O2	6.27e-4	lbs/hr	CE
2,3,4,6-Tetrachlorophenol	401C4R3	ND	2.92e+3	ng/dscm	7%O2	5.96e-4	lbs/hr	CE
2,3,4,6-Tetrachlorophenol	401C4R4	ND	3.63e+3	ng/dscm	7%O2	6.17e-4	lbs/hr	CE
2,3,4,6-Tetrachlorophenol	401C5R1	ND	3.01e+3	ng/dscm	7%O2	7.86e-4	lbs/hr	CE
2,3,4,6-Tetrachlorophenol	401C5R2	ND	2.63e+3	ng/dscm	7%O2	6.91e-4	lbs/hr	CE
2,3,4,6-Tetrachlorophenol	401C5R3	ND	3.26e+3	ng/dscm	7%O2	7.23e-4	lbs/hr	CE
2,3,4,6-Tetrachlorophenol	401C5R4	ND	3.34e+3	ng/dscm	7%O2	7.39e-4	lbs/hr	CE
2,4,5-Trichlorophenol	401C3R1	ND	1.13e+3	ng/dscm	7%O2	2.73e-4	lbs/hr	CE

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ASH GROVE CEMENT COMPANY
 2. STATE: KS
 3. CITY: CHANUTE
 4. EP ID: 401 DEVICE NAME: KILN NO. 1

EPA ID: KSD031203318
 SYSTEM TYPE: CEMENT KILN

APC SYSTEM: ESP

REGION: 7

2,4,5-Trichlorophenol	401C3R2	ND	9.69e+2	ng/dscm	7%O2	2.35e-4	lbs/hr	CE
2,4,5-Trichlorophenol	401C3R3	ND	1.37e+3	ng/dscm	7%O2	5.10e-4	lbs/hr	CE
2,4,5-Trichlorophenol	401C4R1	ND	9.27e+2	ng/dscm	7%O2	1.74e-4	lbs/hr	CE
2,4,5-Trichlorophenol	401C4R2	ND	1.53e+3	ng/dscm	7%O2	2.59e-4	lbs/hr	CE
2,4,5-Trichlorophenol	401C4R3	ND	1.21e+3	ng/dscm	7%O2	2.47e-4	lbs/hr	CE
2,4,5-Trichlorophenol	401C4R4	ND	1.50e+3	ng/dscm	7%O2	2.55e-4	lbs/hr	CE
2,4,5-Trichlorophenol	401C5R1	ND	1.66e+3	ng/dscm	7%O2	4.33e-4	lbs/hr	CE
2,4,5-Trichlorophenol	401C5R2	2	1.45e+3	ng/dscm	7%O2	3.81e-4	lbs/hr	CE
2,4,5-Trichlorophenol	401C5R3	ND	1.79e+3	ng/dscm	7%O2	3.97e-4	lbs/hr	CE
2,4,5-Trichlorophenol	401C5R4	ND	1.84e+3	ng/dscm	7%O2	4.07e-4	lbs/hr	CE
2,4,6-Trichlorophenol	401C3R1	ND	1.25e+3	ng/dscm	7%O2	3.02e-4	lbs/hr	CE
2,4,6-Trichlorophenol	401C3R2	ND	1.08e+3	ng/dscm	7%O2	2.61e-4	lbs/hr	CE
2,4,6-Trichlorophenol	401C3R3	ND	1.52e+3	ng/dscm	7%O2	5.66e-4	lbs/hr	CE
2,4,6-Trichlorophenol	401C4R1	ND	1.03e+3	ng/dscm	7%O2	1.94e-4	lbs/hr	CE
2,4,6-Trichlorophenol	401C4R2	ND	1.71e+3	ng/dscm	7%O2	2.89e-4	lbs/hr	CE
2,4,6-Trichlorophenol	401C4R3	ND	1.35e+3	ng/dscm	7%O2	2.75e-4	lbs/hr	CE
2,4,6-Trichlorophenol	401C4R4	ND	1.67e+3	ng/dscm	7%O2	2.84e-4	lbs/hr	CE
2,4,6-Trichlorophenol	401C5R1	ND	1.84e+3	ng/dscm	7%O2	4.80e-4	lbs/hr	CE
2,4,6-Trichlorophenol	401C5R2	ND	1.61e+3	ng/dscm	7%O2	4.23e-4	lbs/hr	CE
2,4,6-Trichlorophenol	401C5R3	ND	2.00e+3	ng/dscm	7%O2	4.44e-4	lbs/hr	CE
2,4,6-Trichlorophenol	401C5R4	ND	2.04e+3	ng/dscm	7%O2	4.51e-4	lbs/hr	CE
2,4-Dichlorophenol	401C3R1	ND	1.13e+3	ng/dscm	7%O2	2.73e-4	lbs/hr	CE
2,4-Dichlorophenol	401C3R2	ND	9.42e+2	ng/dscm	7%O2	2.28e-4	lbs/hr	CE
2,4-Dichlorophenol	401C3R3	ND	1.29e+3	ng/dscm	7%O2	4.80e-4	lbs/hr	CE
2,4-Dichlorophenol	401C4R1	ND	8.97e+2	ng/dscm	7%O2	1.69e-4	lbs/hr	CE
2,4-Dichlorophenol	401C4R2	ND	1.32e+3	ng/dscm	7%O2	2.23e-4	lbs/hr	CE
2,4-Dichlorophenol	401C4R3	ND	1.09e+3	ng/dscm	7%O2	2.22e-4	lbs/hr	CE
2,4-Dichlorophenol	401C4R4	ND	1.31e+3	ng/dscm	7%O2	2.23e-4	lbs/hr	CE
2,4-Dichlorophenol	401C5R1	ND	1.72e+3	ng/dscm	7%O2	4.49e-4	lbs/hr	CE
2,4-Dichlorophenol	401C5R2	ND	1.50e+3	ng/dscm	7%O2	3.94e-4	lbs/hr	CE
2,4-Dichlorophenol	401C5R3	ND	1.86e+3	ng/dscm	7%O2	4.13e-4	lbs/hr	CE
2,4-Dichlorophenol	401C5R4	ND	1.90e+3	ng/dscm	7%O2	4.20e-4	lbs/hr	CE
2,4-Dimethylphenol	401C3R1	ND	1.16e+3	ng/dscm	7%O2	2.80e-4	lbs/hr	CE
2,4-Dimethylphenol	401C3R2	ND	9.69e+2	ng/dscm	7%O2	2.35e-4	lbs/hr	CE
2,4-Dimethylphenol	401C3R3	ND	1.33e+3	ng/dscm	7%O2	4.95e-4	lbs/hr	CE
2,4-Dimethylphenol	401C4R1	ND	9.22e+2	ng/dscm	7%O2	1.73e-4	lbs/hr	CE
2,4-Dimethylphenol	401C4R2	ND	1.43e+3	ng/dscm	7%O2	2.42e-4	lbs/hr	CE
2,4-Dimethylphenol	401C4R3	ND	1.18e+3	ng/dscm	7%O2	2.41e-4	lbs/hr	CE
2,4-Dimethylphenol	401C4R4	ND	1.42e+3	ng/dscm	7%O2	2.41e-4	lbs/hr	CE
2,4-Dimethylphenol	401C5R1	ND	1.60e+3	ng/dscm	7%O2	4.18e-4	lbs/hr	CE
2,4-Dimethylphenol	401C5R2	ND	1.40e+3	ng/dscm	7%O2	3.68e-4	lbs/hr	CE
2,4-Dimethylphenol	401C5R3	ND	1.89e+3	ng/dscm	7%O2	4.19e-4	lbs/hr	CE
2,4-Dimethylphenol	401C5R4	ND	1.96e+3	ng/dscm	7%O2	4.33e-4	lbs/hr	CE
2,4-Dinitrophenol	401C3R1	ND	3.70e+3	ng/dscm	7%O2	8.94e-4	lbs/hr	CE
2,4-Dinitrophenol	401C3R2	ND	3.18e+3	ng/dscm	7%O2	7.70e-4	lbs/hr	CE
2,4-Dinitrophenol	401C3R3	ND	4.48e+3	ng/dscm	7%O2	1.67e-3	lbs/hr	CE
2,4-Dinitrophenol	401C4R1	2	8.58e+3	ng/dscm	7%O2	1.61e-3	lbs/hr	CE
2,4-Dinitrophenol	401C4R2	ND	3.59e+3	ng/dscm	7%O2	6.07e-4	lbs/hr	CE
2,4-Dinitrophenol	401C4R3	ND	2.83e+3	ng/dscm	7%O2	5.77e-4	lbs/hr	CE
2,4-Dinitrophenol	401C4R4	ND	3.52e+3	ng/dscm	7%O2	5.98e-4	lbs/hr	CE
2,4-Dinitrophenol	401C5R1	ND	5.44e+3	ng/dscm	7%O2	1.42e-3	lbs/hr	CE
2,4-Dinitrophenol	401C5R2	ND	4.75e+3	ng/dscm	7%O2	1.25e-3	lbs/hr	CE
2,4-Dinitrophenol	401C5R3	ND	5.89e+3	ng/dscm	7%O2	1.31e-3	lbs/hr	CE
2,4-Dinitrophenol	401C5R4	ND	6.03e+3	ng/dscm	7%O2	1.33e-3	lbs/hr	CE
2,4-Dinitrotoluene	401C3R1	ND	1.17e+3	ng/dscm	7%O2	2.83e-4	lbs/hr	CE
2,4-Dinitrotoluene	401C3R2	ND	1.00e+3	ng/dscm	7%O2	2.42e-4	lbs/hr	CE
2,4-Dinitrotoluene	401C3R3	ND	1.41e+3	ng/dscm	7%O2	5.25e-4	lbs/hr	CE
2,4-Dinitrotoluene	401C4R1	ND	9.62e+2	ng/dscm	7%O2	1.81e-4	lbs/hr	CE
2,4-Dinitrotoluene	401C4R2	ND	1.36e+3	ng/dscm	7%O2	2.30e-4	lbs/hr	CE
2,4-Dinitrotoluene	401C4R3	ND	1.07e+3	ng/dscm	7%O2	2.18e-4	lbs/hr	CE
2,4-Dinitrotoluene	401C4R4	ND	1.33e+3	ng/dscm	7%O2	2.26e-4	lbs/hr	CE
2,4-Dinitrotoluene	401C5R1	ND	1.72e+3	ng/dscm	7%O2	4.49e-4	lbs/hr	CE
2,4-Dinitrotoluene	401C5R2	ND	1.50e+3	ng/dscm	7%O2	3.94e-4	lbs/hr	CE

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ASH GROVE CEMENT COMPANY
 2. STATE: KS
 3. CITY: CHANUTE
 4. EP ID: 401 DEVICE NAME: KILN NO. 1

EPA ID: KSD031203318
 SYSTEM TYPE: CEMENT KILN

APC SYSTEM: ESP

REGION: 7

2,4-Dinitrotoluene	401C5R3	ND	1.86e+3	ng/dscm	7%O2	4.13e-4	lbs/hr	CE
2,4-Dinitrotoluene	401C5R4	ND	1.90e+3	ng/dscm	7%O2	4.20e-4	lbs/hr	CE
2,6-Dichlorophenol	401C3R1	ND	1.66e+3	ng/dscm	7%O2	4.01e-4	lbs/hr	CE
2,6-Dichlorophenol	401C3R2	ND	1.00e+3	ng/dscm	7%O2	2.42e-4	lbs/hr	CE
2,6-Dichlorophenol	401C3R3	ND	1.41e+3	ng/dscm	7%O2	5.25e-4	lbs/hr	CE
2,6-Dichlorophenol	401C4R1		9.57e+2	ng/dscm	7%O2	1.80e-4	lbs/hr	CE
2,6-Dichlorophenol	401C4R2		1.50e+3	ng/dscm	7%O2	2.54e-4	lbs/hr	CE
2,6-Dichlorophenol	401C4R3		1.18e+3	ng/dscm	7%O2	2.41e-4	lbs/hr	CE
2,6-Dichlorophenol	401C4R4	ND	1.47e+3	ng/dscm	7%O2	2.50e-4	lbs/hr	CE
2,6-Dichlorophenol	401C5R1	ND	1.71e+3	ng/dscm	7%O2	4.46e-4	lbs/hr	CE
2,6-Dichlorophenol	401C5R2	ND	1.50e+3	ng/dscm	7%O2	3.94e-4	lbs/hr	CE
2,6-Dichlorophenol	401C5R3		1.85e+3	ng/dscm	7%O2	4.10e-4	lbs/hr	CE
2,6-Dichlorophenol	401C5R4		1.90e+3	ng/dscm	7%O2	4.20e-4	lbs/hr	CE
2,6-Dinitrotoluene	401C3R1	ND	1.68e+3	ng/dscm	7%O2	4.06e-4	lbs/hr	CE
2,6-Dinitrotoluene	401C3R2	ND	1.44e+3	ng/dscm	7%O2	3.48e-4	lbs/hr	CE
2,6-Dinitrotoluene	401C3R3	ND	2.03e+3	ng/dscm	7%O2	7.56e-4	lbs/hr	CE
2,6-Dinitrotoluene	401C4R1	ND	1.38e+3	ng/dscm	7%O2	2.60e-4	lbs/hr	CE
2,6-Dinitrotoluene	401C4R2	ND	1.95e+3	ng/dscm	7%O2	3.30e-4	lbs/hr	CE
2,6-Dinitrotoluene	401C4R3	ND	1.53e+3	ng/dscm	7%O2	3.12e-4	lbs/hr	CE
2,6-Dinitrotoluene	401C4R4	ND	1.91e+3	ng/dscm	7%O2	3.24e-4	lbs/hr	CE
2,6-Dinitrotoluene	401C5R1	ND	2.46e+3	ng/dscm	7%O2	6.42e-4	lbs/hr	CE
2,6-Dinitrotoluene	401C5R2	ND	2.15e+3	ng/dscm	7%O2	5.65e-4	lbs/hr	CE
2,6-Dinitrotoluene	401C5R3	ND	2.67e+3	ng/dscm	7%O2	5.92e-4	lbs/hr	CE
2,6-Dinitrotoluene	401C5R4	ND	2.73e+3	ng/dscm	7%O2	6.04e-4	lbs/hr	CE
2-Chloronaphthalene	401C3R1	2	4.60e+2	ng/dscm	7%O2	1.11e-4	lbs/hr	CE
2-Chloronaphthalene	401C3R2	2	6.57e+2	ng/dscm	7%O2	1.59e-4	lbs/hr	CE
2-Chloronaphthalene	401C3R3	2	6.74e+2	ng/dscm	7%O2	2.51e-4	lbs/hr	CE
2-Chloronaphthalene	401C4R1	2	2.99e+2	ng/dscm	7%O2	5.62e-5	lbs/hr	CE
2-Chloronaphthalene	401C4R2	2	5.25e+2	ng/dscm	7%O2	8.88e-5	lbs/hr	CE
2-Chloronaphthalene	401C4R3	2	3.44e+2	ng/dscm	7%O2	7.02e-5	lbs/hr	CE
2-Chloronaphthalene	401C4R4	2	5.86e+2	ng/dscm	7%O2	9.96e-5	lbs/hr	CE
2-Chloronaphthalene	401C5R1	2	3.25e+2	ng/dscm	7%O2	8.48e-5	lbs/hr	CE
2-Chloronaphthalene	401C5R2	ND	4.26e+2	ng/dscm	7%O2	1.12e-4	lbs/hr	CE
2-Chloronaphthalene	401C5R3	2	6.08e+2	ng/dscm	7%O2	1.35e-4	lbs/hr	CE
2-Chloronaphthalene	401C5R4	2	4.77e+2	ng/dscm	7%O2	1.05e-4	lbs/hr	CE
2-Chlorophenol	401C2R2		4.13e+3	ng/dscm	7%O2	1.03e-3	lbs/hr	CE7%O2
2-Chlorophenol	401C2R4		4.68e+3	ng/dscm	7%O2	1.06e-3	lbs/hr	CE7%O2
2-Chlorophenol	401C3R1	ND	8.78e+2	ng/dscm	7%O2	2.12e-4	lbs/hr	CE
2-Chlorophenol	401C3R2	2	1.73e+3	ng/dscm	7%O2	4.19e-4	lbs/hr	CE
2-Chlorophenol	401C3R3	2	1.49e+3	ng/dscm	7%O2	5.55e-4	lbs/hr	CE
2-Chlorophenol	401C4R1	ND	7.06e+2	ng/dscm	7%O2	1.33e-4	lbs/hr	CE
2-Chlorophenol	401C4R2	2	1.15e+3	ng/dscm	7%O2	1.94e-4	lbs/hr	CE
2-Chlorophenol	401C4R3	2	9.80e+2	ng/dscm	7%O2	2.00e-4	lbs/hr	CE
2-Chlorophenol	401C4R4	2	1.07e+3	ng/dscm	7%O2	1.82e-4	lbs/hr	CE
2-Chlorophenol	401C5R1	2	2.00e+3	ng/dscm	7%O2	5.22e-4	lbs/hr	CE
2-Chlorophenol	401C5R2	2	1.59e+3	ng/dscm	7%O2	4.18e-4	lbs/hr	CE
2-Chlorophenol	401C5R3	2	1.49e+3	ng/dscm	7%O2	3.30e-4	lbs/hr	CE
2-Chlorophenol	401C5R4	ND	1.62e+3	ng/dscm	7%O2	3.58e-4	lbs/hr	CE
2-Methylnaphthalene	401C2R1		4.19e+4	ng/dscm	7%O2	1.01e-2	lbs/hr	CE7%O2
2-Methylnaphthalene	401C2R2		5.49e+4	ng/dscm	7%O2	1.36e-2	lbs/hr	CE7%O2
2-Methylnaphthalene	401C2R3		4.08e+4	ng/dscm	7%O2	8.85e-3	lbs/hr	CE7%O2
2-Methylnaphthalene	401C2R4		4.09e+4	ng/dscm	7%O2	9.21e-3	lbs/hr	CE7%O2
2-Methylnaphthalene	401C3R1		2.54e+4	ng/dscm	7%O2	6.14e-3	lbs/hr	CE
2-Methylnaphthalene	401C3R2		3.75e+4	ng/dscm	7%O2	9.08e-3	lbs/hr	CE
2-Methylnaphthalene	401C3R3		2.97e+4	ng/dscm	7%O2	1.11e-2	lbs/hr	CE
2-Methylnaphthalene	401C4R1		1.27e+4	ng/dscm	7%O2	2.39e-3	lbs/hr	CE
2-Methylnaphthalene	401C4R2		1.47e+4	ng/dscm	7%O2	2.49e-3	lbs/hr	CE
2-Methylnaphthalene	401C4R3		1.66e+4	ng/dscm	7%O2	3.39e-3	lbs/hr	CE
2-Methylnaphthalene	401C4R4		2.70e+4	ng/dscm	7%O2	4.59e-3	lbs/hr	CE
2-Methylnaphthalene	401C5R1		1.19e+4	ng/dscm	7%O2	3.11e-3	lbs/hr	CE
2-Methylnaphthalene	401C5R2	ND	2.02e+4	ng/dscm	7%O2	5.31e-3	lbs/hr	CE
2-Methylnaphthalene	401C5R3	ND	2.59e+4	ng/dscm	7%O2	5.74e-3	lbs/hr	CE
2-Methylnaphthalene	401C5R4	ND	3.05e+4	ng/dscm	7%O2	6.75e-3	lbs/hr	CE

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ASH GROVE CEMENT COMPANY
 2. STATE: KS
 3. CITY: CHANUTE
 4. EP ID: 401 DEVICE NAME: KILN NO. 1

EPA ID: KSD031203318
 SYSTEM TYPE: CEMENT KILN

APC SYSTEM: ESP

REGION: 7

2-Methylphenol (o-Cresol)	401C2R1		1.18e+4	ng/dscm	7%O2	2.85e-3	lbs/hr	CE7%O2
2-Methylphenol (o-Cresol)	401C2R2		1.75e+4	ng/dscm	7%O2	4.36e-3	lbs/hr	CE7%O2
2-Methylphenol (o-Cresol)	401C2R3		9.54e+3	ng/dscm	7%O2	2.07e-3	lbs/hr	CE7%O2
2-Methylphenol (o-Cresol)	401C2R4		1.15e+4	ng/dscm	7%O2	2.58e-3	lbs/hr	CE7%O2
2-Methylphenol (o-Cresol)	401C3R1	ND	1.15e+3	ng/dscm	7%O2	2.78e-4	lbs/hr	CE
2-Methylphenol (o-Cresol)	401C3R2		6.67e+3	ng/dscm	7%O2	1.61e-3	lbs/hr	CE
2-Methylphenol (o-Cresol)	401C3R3	2	1.51e+2	ng/dscm	7%O2	5.62e-5	lbs/hr	CE
2-Methylphenol (o-Cresol)	401C4R1	ND	9.27e+2	ng/dscm	7%O2	1.74e-4	lbs/hr	CE
2-Methylphenol (o-Cresol)	401C4R2	2	4.40e+2	ng/dscm	7%O2	7.44e-5	lbs/hr	CE
2-Methylphenol (o-Cresol)	401C4R3	2	9.20e+2	ng/dscm	7%O2	1.88e-4	lbs/hr	CE
2-Methylphenol (o-Cresol)	401C4R4	ND	1.40e+3	ng/dscm	7%O2	2.38e-4	lbs/hr	CE
2-Methylphenol (o-Cresol)	401C5R1	2	5.20e+3	ng/dscm	7%O2	1.36e-3	lbs/hr	CE
2-Methylphenol (o-Cresol)	401C5R2		1.70e+4	ng/dscm	7%O2	4.47e-3	lbs/hr	CE
2-Methylphenol (o-Cresol)	401C5R3		2.45e+4	ng/dscm	7%O2	5.43e-3	lbs/hr	CE
2-Methylphenol (o-Cresol)	401C5R4		5.64e+4	ng/dscm	7%O2	1.25e-2	lbs/hr	CE
2-Nitroaniline	401C3R1	ND	1.88e+3	ng/dscm	7%O2	4.54e-4	lbs/hr	CE
2-Nitroaniline	401C3R2	ND	1.62e+3	ng/dscm	7%O2	3.92e-4	lbs/hr	CE
2-Nitroaniline	401C3R3	ND	2.28e+3	ng/dscm	7%O2	8.49e-4	lbs/hr	CE
2-Nitroaniline	401C4R1	ND	1.55e+3	ng/dscm	7%O2	2.92e-4	lbs/hr	CE
2-Nitroaniline	401C4R2	ND	2.25e+3	ng/dscm	7%O2	3.80e-4	lbs/hr	CE
2-Nitroaniline	401C4R3	ND	1.78e+3	ng/dscm	7%O2	3.63e-4	lbs/hr	CE
2-Nitroaniline	401C4R4	ND	2.20e+3	ng/dscm	7%O2	3.74e-4	lbs/hr	CE
2-Nitroaniline	401C5R1	ND	2.77e+3	ng/dscm	7%O2	7.23e-4	lbs/hr	CE
2-Nitroaniline	401C5R2	ND	2.42e+3	ng/dscm	7%O2	6.36e-4	lbs/hr	CE
2-Nitroaniline	401C5R3	ND	2.99e+3	ng/dscm	7%O2	6.63e-4	lbs/hr	CE
2-Nitroaniline	401C5R4	ND	3.06e+3	ng/dscm	7%O2	6.77e-4	lbs/hr	CE
2-Nitrophenol	401C3R1		4.72e+4	ng/dscm	7%O2	1.14e-2	lbs/hr	CE
2-Nitrophenol	401C3R2	2	2.50e+3	ng/dscm	7%O2	6.05e-4	lbs/hr	CE
2-Nitrophenol	401C3R3		1.54e+4	ng/dscm	7%O2	5.73e-3	lbs/hr	CE
2-Nitrophenol	401C4R1		1.46e+4	ng/dscm	7%O2	2.75e-3	lbs/hr	CE
2-Nitrophenol	401C4R2	ND	1.98e+3	ng/dscm	7%O2	3.35e-4	lbs/hr	CE
2-Nitrophenol	401C4R3	2	2.21e+3	ng/dscm	7%O2	4.51e-4	lbs/hr	CE
2-Nitrophenol	401C4R4		2.07e+4	ng/dscm	7%O2	3.52e-3	lbs/hr	CE
2-Nitrophenol	401C5R1	ND	2.17e+3	ng/dscm	7%O2	5.66e-4	lbs/hr	CE
2-Nitrophenol	401C5R2	ND	1.89e+3	ng/dscm	7%O2	4.97e-4	lbs/hr	CE
2-Nitrophenol	401C5R3	ND	2.55e+3	ng/dscm	7%O2	5.66e-4	lbs/hr	CE
2-Nitrophenol	401C5R4		4.23e+4	ng/dscm	7%O2	9.35e-3	lbs/hr	CE
3,3-Dichlorobenzidine	401C3R1	ND	5.85e+2	ng/dscm	7%O2	1.41e-4	lbs/hr	CE
3,3-Dichlorobenzidine	401C3R2	ND	5.86e+2	ng/dscm	7%O2	1.42e-4	lbs/hr	CE
3,3-Dichlorobenzidine	401C3R3	ND	7.82e+2	ng/dscm	7%O2	2.91e-4	lbs/hr	CE
3,3-Dichlorobenzidine	401C4R1	ND	5.58e+2	ng/dscm	7%O2	1.05e-4	lbs/hr	CE
3,3-Dichlorobenzidine	401C4R2	ND	1.26e+3	ng/dscm	7%O2	2.13e-4	lbs/hr	CE
3,3-Dichlorobenzidine	401C4R3	ND	1.03e+3	ng/dscm	7%O2	2.10e-4	lbs/hr	CE
3,3-Dichlorobenzidine	401C4R4	ND	1.19e+3	ng/dscm	7%O2	2.02e-4	lbs/hr	CE
3,3-Dichlorobenzidine	401C5R1	ND	9.98e+2	ng/dscm	7%O2	2.61e-4	lbs/hr	CE
3,3-Dichlorobenzidine	401C5R2	ND	8.92e+2	ng/dscm	7%O2	2.34e-4	lbs/hr	CE
3,3-Dichlorobenzidine	401C5R3	ND	1.12e+3	ng/dscm	7%O2	2.48e-4	lbs/hr	CE
3,3-Dichlorobenzidine	401C5R4	ND	1.05e+3	ng/dscm	7%O2	2.32e-4	lbs/hr	CE
3,3-Dimethoxybenzidine	401C3R1	ND	8.72e+2	ng/dscm	7%O2	2.11e-4	lbs/hr	CE
3,3-Dimethoxybenzidine	401C3R2	ND	8.71e+2	ng/dscm	7%O2	2.11e-4	lbs/hr	CE
3,3-Dimethoxybenzidine	401C3R3	ND	1.16e+3	ng/dscm	7%O2	4.32e-4	lbs/hr	CE
3,3-Dimethoxybenzidine	401C4R1	ND	8.32e+2	ng/dscm	7%O2	1.56e-4	lbs/hr	CE
3,3-Dimethoxybenzidine	401C4R2	ND	2.65e+3	ng/dscm	7%O2	4.48e-4	lbs/hr	CE
3,3-Dimethoxybenzidine	401C4R3	ND	2.16e+3	ng/dscm	7%O2	4.41e-4	lbs/hr	CE
3,3-Dimethoxybenzidine	401C4R4	ND	2.52e+3	ng/dscm	7%O2	4.28e-4	lbs/hr	CE
3,3-Dimethoxybenzidine	401C5R1	ND	1.47e+3	ng/dscm	7%O2	3.84e-4	lbs/hr	CE
3,3-Dimethoxybenzidine	401C5R2	ND	1.31e+3	ng/dscm	7%O2	3.44e-4	lbs/hr	CE
3,3-Dimethoxybenzidine	401C5R3	ND	1.65e+3	ng/dscm	7%O2	3.66e-4	lbs/hr	CE
3,3-Dimethoxybenzidine	401C5R4	ND	1.54e+3	ng/dscm	7%O2	3.41e-4	lbs/hr	CE
3,4-Methylphenol	401C3R1	ND	1.09e+3	ng/dscm	7%O2	2.63e-4	lbs/hr	CE
3,4-Methylphenol	401C3R2		1.29e+4	ng/dscm	7%O2	3.12e-3	lbs/hr	CE
3,4-Methylphenol	401C3R3	2	8.39e+2	ng/dscm	7%O2	3.12e-4	lbs/hr	CE
3,4-Methylphenol	401C4R1	ND	8.77e+2	ng/dscm	7%O2	1.65e-4	lbs/hr	CE

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ASH GROVE CEMENT COMPANY
 2. STATE: KS
 3. CITY: CHANUTE
 4. EP ID: 401 DEVICE NAME: KILN NO. 1

EPA ID: KSD031203318
 SYSTEM TYPE: CEMENT KILN

APC SYSTEM: ESP

REGION: 7

3,4-Methylphenol	401C4R2	2	1.94e+3	ng/dscm	7%O2	3.28e-4	lbs/hr	CE
3,4-Methylphenol	401C4R3	2	3.50e+3	ng/dscm	7%O2	7.14e-4	lbs/hr	CE
3,4-Methylphenol	401C4R4	ND	1.30e+3	ng/dscm	7%O2	2.21e-4	lbs/hr	CE
3,4-Methylphenol	401C5R1	2	8.09e+3	ng/dscm	7%O2	2.11e-3	lbs/hr	CE
3,4-Methylphenol	401C5R2		2.24e+4	ng/dscm	7%O2	5.89e-3	lbs/hr	CE
3,4-Methylphenol	401C5R3		3.31e+4	ng/dscm	7%O2	7.34e-3	lbs/hr	CE
3,4-Methylphenol	401C5R4	2	2.52e+3	ng/dscm	7%O2	5.57e-4	lbs/hr	CE
3-Nitroaniline	401C3R1	ND	1.06e+3	ng/dscm	7%O2	2.56e-4	lbs/hr	CE
3-Nitroaniline	401C3R2	ND	9.03e+2	ng/dscm	7%O2	2.19e-4	lbs/hr	CE
3-Nitroaniline	401C3R3	ND	1.28e+3	ng/dscm	7%O2	4.76e-4	lbs/hr	CE
3-Nitroaniline	401C4R1	ND	8.67e+2	ng/dscm	7%O2	1.63e-4	lbs/hr	CE
3-Nitroaniline	401C4R2	ND	1.52e+3	ng/dscm	7%O2	2.57e-4	lbs/hr	CE
3-Nitroaniline	401C4R3	ND	1.20e+3	ng/dscm	7%O2	2.45e-4	lbs/hr	CE
3-Nitroaniline	401C4R4	ND	1.48e+3	ng/dscm	7%O2	2.51e-4	lbs/hr	CE
3-Nitroaniline	401C5R1	ND	1.55e+3	ng/dscm	7%O2	4.05e-4	lbs/hr	CE
3-Nitroaniline	401C5R2	ND	1.35e+3	ng/dscm	7%O2	3.55e-4	lbs/hr	CE
3-Nitroaniline	401C5R3	ND	1.68e+3	ng/dscm	7%O2	3.73e-4	lbs/hr	CE
3-Nitroaniline	401C5R4	ND	1.72e+3	ng/dscm	7%O2	3.80e-4	lbs/hr	CE
4,4-Methylenedianiline	401C3R1	ND	6.99e+2	ng/dscm	7%O2	1.69e-4	lbs/hr	CE
4,4-Methylenedianiline	401C3R2	ND	6.95e+2	ng/dscm	7%O2	1.68e-4	lbs/hr	CE
4,4-Methylenedianiline	401C3R3	ND	9.25e+2	ng/dscm	7%O2	3.44e-4	lbs/hr	CE
4,4-Methylenedianiline	401C4R1	ND	6.63e+2	ng/dscm	7%O2	1.25e-4	lbs/hr	CE
4,4-Methylenedianiline	401C4R2	ND	1.71e+3	ng/dscm	7%O2	2.89e-4	lbs/hr	CE
4,4-Methylenedianiline	401C4R3	ND	1.39e+3	ng/dscm	7%O2	2.84e-4	lbs/hr	CE
4,4-Methylenedianiline	401C4R4	ND	1.62e+3	ng/dscm	7%O2	2.75e-4	lbs/hr	CE
4,4-Methylenedianiline	401C5R1	ND	1.17e+3	ng/dscm	7%O2	3.05e-4	lbs/hr	CE
4,4-Methylenedianiline	401C5R2	ND	1.05e+3	ng/dscm	7%O2	2.76e-4	lbs/hr	CE
4,4-Methylenedianiline	401C5R3	ND	1.32e+3	ng/dscm	7%O2	2.93e-4	lbs/hr	CE
4,4-Methylenedianiline	401C5R4	ND	1.23e+3	ng/dscm	7%O2	2.72e-4	lbs/hr	CE
4,6-Dinitro-o-Cresol	401C3R1	2	2.37e+3	ng/dscm	7%O2	5.73e-4	lbs/hr	CE
4,6-Dinitro-o-Cresol	401C3R2	ND	1.94e+3	ng/dscm	7%O2	4.69e-4	lbs/hr	CE
4,6-Dinitro-o-Cresol	401C3R3	ND	2.67e+3	ng/dscm	7%O2	9.94e-4	lbs/hr	CE
4,6-Dinitro-o-Cresol	401C4R1	2	2.45e+3	ng/dscm	7%O2	4.61e-4	lbs/hr	CE
4,6-Dinitro-o-Cresol	401C4R2	ND	2.11e+3	ng/dscm	7%O2	3.57e-4	lbs/hr	CE
4,6-Dinitro-o-Cresol	401C4R3	ND	1.62e+3	ng/dscm	7%O2	3.31e-4	lbs/hr	CE
4,6-Dinitro-o-Cresol	401C4R4	ND	1.96e+3	ng/dscm	7%O2	3.33e-4	lbs/hr	CE
4,6-Dinitro-o-Cresol	401C5R1	ND	3.58e+3	ng/dscm	7%O2	9.34e-4	lbs/hr	CE
4,6-Dinitro-o-Cresol	401C5R2	ND	3.05e+3	ng/dscm	7%O2	8.02e-4	lbs/hr	CE
4,6-Dinitro-o-Cresol	401C5R3	ND	3.76e+3	ng/dscm	7%O2	8.34e-4	lbs/hr	CE
4,6-Dinitro-o-Cresol	401C5R4	ND	3.60e+3	ng/dscm	7%O2	7.96e-4	lbs/hr	CE
4-Aminobiphenyl	401C3R1	ND	3.05e+2	ng/dscm	7%O2	7.37e-5	lbs/hr	CE
4-Aminobiphenyl	401C3R2	ND	2.85e+2	ng/dscm	7%O2	6.90e-5	lbs/hr	CE
4-Aminobiphenyl	401C3R3	ND	3.87e+2	ng/dscm	7%O2	1.44e-4	lbs/hr	CE
4-Aminobiphenyl	401C4R1	ND	2.59e+2	ng/dscm	7%O2	4.87e-5	lbs/hr	CE
4-Aminobiphenyl	401C4R2	ND	5.30e+2	ng/dscm	7%O2	8.96e-5	lbs/hr	CE
4-Aminobiphenyl	401C4R3	ND	4.00e+1	ng/dscm	7%O2	8.16e-6	lbs/hr	CE
4-Aminobiphenyl	401C4R4	ND	4.89e+2	ng/dscm	7%O2	8.31e-5	lbs/hr	CE
4-Aminobiphenyl	401C5R1	ND	5.21e+2	ng/dscm	7%O2	1.36e-4	lbs/hr	CE
4-Aminobiphenyl	401C5R2	ND	4.44e+2	ng/dscm	7%O2	1.17e-4	lbs/hr	CE
4-Aminobiphenyl	401C5R3	ND	5.52e+2	ng/dscm	7%O2	1.22e-4	lbs/hr	CE
4-Aminobiphenyl	401C5R4	ND	5.28e+2	ng/dscm	7%O2	1.17e-4	lbs/hr	CE
4-Bromophenyl-phenylether	401C3R1	ND	1.36e+3	ng/dscm	7%O2	3.29e-4	lbs/hr	CE
4-Bromophenyl-phenylether	401C3R2	ND	1.28e+3	ng/dscm	7%O2	3.10e-4	lbs/hr	CE
4-Bromophenyl-phenylether	401C3R3	ND	1.75e+3	ng/dscm	7%O2	6.51e-4	lbs/hr	CE
4-Bromophenyl-phenylether	401C4R1	ND	1.17e+3	ng/dscm	7%O2	2.20e-4	lbs/hr	CE
4-Bromophenyl-phenylether	401C4R2	ND	1.73e+3	ng/dscm	7%O2	2.93e-4	lbs/hr	CE
4-Bromophenyl-phenylether	401C4R3	ND	1.32e+3	ng/dscm	7%O2	2.69e-4	lbs/hr	CE
4-Bromophenyl-phenylether	401C4R4	ND	1.60e+3	ng/dscm	7%O2	2.72e-4	lbs/hr	CE
4-Bromophenyl-phenylether	401C5R1	ND	2.35e+3	ng/dscm	7%O2	6.13e-4	lbs/hr	CE
4-Bromophenyl-phenylether	401C5R2	ND	2.00e+3	ng/dscm	7%O2	5.26e-4	lbs/hr	CE
4-Bromophenyl-phenylether	401C5R3	ND	2.47e+3	ng/dscm	7%O2	5.48e-4	lbs/hr	CE
4-Bromophenyl-phenylether	401C5R4	ND	2.36e+3	ng/dscm	7%O2	5.22e-4	lbs/hr	CE

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ASH GROVE CEMENT COMPANY
 2. STATE: KS
 3. CITY: CHANUTE
 4. EP ID: 401 DEVICE NAME: KILN NO. 1

EPA ID: KSD031203318
 SYSTEM TYPE: CEMENT KILN

APC SYSTEM: ESP

REGION: 7

4-Chloro-3-methylphenol	401C3R1	ND	1.14e+3	ng/dscm	7%O2	2.75e-4	lbs/hr	CE
4-Chloro-3-methylphenol	401C3R2	ND	9.47e+2	ng/dscm	7%O2	2.29e-4	lbs/hr	CE
4-Chloro-3-methylphenol	401C3R3	ND	1.30e+3	ng/dscm	7%O2	4.84e-4	lbs/hr	CE
4-Chloro-3-methylphenol	401C4R1	ND	9.02e+2	ng/dscm	7%O2	1.70e-4	lbs/hr	CE
4-Chloro-3-methylphenol	401C4R2	ND	1.16e+3	ng/dscm	7%O2	1.96e-4	lbs/hr	CE
4-Chloro-3-methylphenol	401C4R3	ND	9.54e+2	ng/dscm	7%O2	1.95e-4	lbs/hr	CE
4-Chloro-3-methylphenol	401C4R4	ND	1.15e+3	ng/dscm	7%O2	1.95e-4	lbs/hr	CE
4-Chloro-3-methylphenol	401C5R1	ND	1.56e+3	ng/dscm	7%O2	4.07e-4	lbs/hr	CE
4-Chloro-3-methylphenol	401C5R2	ND	1.36e+3	ng/dscm	7%O2	3.58e-4	lbs/hr	CE
4-Chloro-3-methylphenol	401C5R3	ND	1.84e+3	ng/dscm	7%O2	4.08e-4	lbs/hr	CE
4-Chloro-3-methylphenol	401C5R4	ND	1.91e+3	ng/dscm	7%O2	4.22e-4	lbs/hr	CE
4-Chloroaniline	401C3R1	ND	7.11e+2	ng/dscm	7%O2	1.72e-4	lbs/hr	CE
4-Chloroaniline	401C3R2	ND	5.97e+2	ng/dscm	7%O2	1.44e-4	lbs/hr	CE
4-Chloroaniline	401C3R3	ND	8.18e+2	ng/dscm	7%O2	3.05e-4	lbs/hr	CE
4-Chloroaniline	401C4R1	ND	5.68e+2	ng/dscm	7%O2	1.07e-4	lbs/hr	CE
4-Chloroaniline	401C4R2	ND	9.23e+2	ng/dscm	7%O2	1.56e-4	lbs/hr	CE
4-Chloroaniline	401C4R3	ND	7.61e+2	ng/dscm	7%O2	1.55e-4	lbs/hr	CE
4-Chloroaniline	401C4R4	ND	9.19e+2	ng/dscm	7%O2	1.56e-4	lbs/hr	CE
4-Chloroaniline	401C5R1	ND	9.84e+2	ng/dscm	7%O2	2.57e-4	lbs/hr	CE
4-Chloroaniline	401C5R2	ND	8.57e+2	ng/dscm	7%O2	2.25e-4	lbs/hr	CE
4-Chloroaniline	401C5R3	ND	1.16e+3	ng/dscm	7%O2	2.57e-4	lbs/hr	CE
4-Chloroaniline	401C5R4	ND	1.20e+3	ng/dscm	7%O2	2.65e-4	lbs/hr	CE
4-Chlorophenyl-phenylether	401C3R1	ND	9.14e+2	ng/dscm	7%O2	2.21e-4	lbs/hr	CE
4-Chlorophenyl-phenylether	401C3R2	ND	7.88e+2	ng/dscm	7%O2	1.91e-4	lbs/hr	CE
4-Chlorophenyl-phenylether	401C3R3	ND	1.11e+3	ng/dscm	7%O2	4.13e-4	lbs/hr	CE
4-Chlorophenyl-phenylether	401C4R1	ND	7.53e+2	ng/dscm	7%O2	1.42e-4	lbs/hr	CE
4-Chlorophenyl-phenylether	401C4R2	ND	1.16e+3	ng/dscm	7%O2	1.96e-4	lbs/hr	CE
4-Chlorophenyl-phenylether	401C4R3	ND	9.11e+2	ng/dscm	7%O2	1.86e-4	lbs/hr	CE
4-Chlorophenyl-phenylether	401C4R4	ND	1.13e+3	ng/dscm	7%O2	1.92e-4	lbs/hr	CE
4-Chlorophenyl-phenylether	401C5R1	ND	1.35e+3	ng/dscm	7%O2	3.52e-4	lbs/hr	CE
4-Chlorophenyl-phenylether	401C5R2	ND	1.18e+3	ng/dscm	7%O2	3.10e-4	lbs/hr	CE
4-Chlorophenyl-phenylether	401C5R3	ND	1.46e+3	ng/dscm	7%O2	3.24e-4	lbs/hr	CE
4-Chlorophenyl-phenylether	401C5R4	ND	1.49e+3	ng/dscm	7%O2	3.30e-4	lbs/hr	CE
4-Methyl-2-pentanone	401C3R1	ND	6.86e+2	ng/dscm	7%O2	1.66e-4	lbs/hr	CE
4-Methyl-2-pentanone	401C3R2	ND	8.21e+2	ng/dscm	7%O2	1.99e-4	lbs/hr	CE
4-Methyl-2-pentanone	401C3R3	ND	1.12e+3	ng/dscm	7%O2	4.17e-4	lbs/hr	CE
4-Methyl-2-pentanone	401C4R1	ND	7.08e+2	ng/dscm	7%O2	1.33e-4	lbs/hr	CE
4-Methyl-2-pentanone	401C4R2	ND	8.78e+2	ng/dscm	7%O2	1.48e-4	lbs/hr	CE
4-Methyl-2-pentanone	401C4R3	ND	3.93e+2	ng/dscm	7%O2	8.02e-5	lbs/hr	CE
4-Methyl-2-pentanone	401C4R4	3	6.86e+3	ng/dscm	7%O2	1.17e-3	lbs/hr	CE
4-Methyl-2-pentanone	401C5R1	ND	5.42e+2	ng/dscm	7%O2	1.41e-4	lbs/hr	CE
4-Methyl-2-pentanone	401C5R2	ND	5.47e+2	ng/dscm	7%O2	1.44e-4	lbs/hr	CE
4-Methyl-2-pentanone	401C5R3	ND	6.91e+2	ng/dscm	7%O2	1.53e-4	lbs/hr	CE
4-Methyl-2-pentanone	401C5R4	ND	6.65e+2	ng/dscm	7%O2	1.47e-4	lbs/hr	CE
4-Methylphenol (p-Cresol)	401C2R1		2.52e+4	ng/dscm	7%O2	6.10e-3	lbs/hr	CE7%O2
4-Methylphenol (p-Cresol)	401C2R2		3.21e+4	ng/dscm	7%O2	7.97e-3	lbs/hr	CE7%O2
4-Methylphenol (p-Cresol)	401C2R3		1.87e+4	ng/dscm	7%O2	4.05e-3	lbs/hr	CE7%O2
4-Methylphenol (p-Cresol)	401C2R4		2.44e+4	ng/dscm	7%O2	5.51e-3	lbs/hr	CE7%O2
4-Nitroaniline	401C3R1	ND	9.26e+2	ng/dscm	7%O2	2.24e-4	lbs/hr	CE
4-Nitroaniline	401C3R2	ND	7.94e+2	ng/dscm	7%O2	1.92e-4	lbs/hr	CE
4-Nitroaniline	401C3R3	ND	1.12e+3	ng/dscm	7%O2	4.17e-4	lbs/hr	CE
4-Nitroaniline	401C4R1	ND	7.58e+2	ng/dscm	7%O2	1.43e-4	lbs/hr	CE
4-Nitroaniline	401C4R2	ND	1.54e+3	ng/dscm	7%O2	2.60e-4	lbs/hr	CE
4-Nitroaniline	401C4R3	ND	1.22e+3	ng/dscm	7%O2	2.49e-4	lbs/hr	CE
4-Nitroaniline	401C4R4	ND	1.51e+3	ng/dscm	7%O2	2.57e-4	lbs/hr	CE
4-Nitroaniline	401C5R1	ND	1.36e+3	ng/dscm	7%O2	3.55e-4	lbs/hr	CE
4-Nitroaniline	401C5R2	ND	1.18e+3	ng/dscm	7%O2	3.10e-4	lbs/hr	CE
4-Nitroaniline	401C5R3	ND	1.47e+3	ng/dscm	7%O2	3.26e-4	lbs/hr	CE
4-Nitroaniline	401C5R4	ND	1.51e+3	ng/dscm	7%O2	3.34e-4	lbs/hr	CE
4-Nitrobiphenyl	401C3R1	ND	6.69e+2	ng/dscm	7%O2	1.62e-4	lbs/hr	CE
4-Nitrobiphenyl	401C3R2	ND	6.24e+2	ng/dscm	7%O2	1.51e-4	lbs/hr	CE
4-Nitrobiphenyl	401C3R3	ND	8.54e+2	ng/dscm	7%O2	3.18e-4	lbs/hr	CE

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ASH GROVE CEMENT COMPANY
 2. STATE: KS
 3. CITY: CHANUTE
 4. EP ID: 401 DEVICE NAME: KILN NO. 1

EPA KSD031203318
 SYSTEM TYPE: CEMENT KILN

APC SYSTEM: ESP

REGION: 7

4-Nitrobiphenyl	401C4R1	ND	5.73e+2	ng/dscm	7%O2	1.08e-4	lbs/hr	CE
4-Nitrobiphenyl	401C4R2	ND	1.07e+3	ng/dscm	7%O2	1.81e-4	lbs/hr	CE
4-Nitrobiphenyl	401C4R3	ND	8.17e+2	ng/dscm	7%O2	1.67e-4	lbs/hr	CE
4-Nitrobiphenyl	401C4R4	ND	9.89e+2	ng/dscm	7%O2	1.68e-4	lbs/hr	CE
4-Nitrobiphenyl	401C5R1	ND	1.15e+3	ng/dscm	7%O2	3.00e-4	lbs/hr	CE
4-Nitrobiphenyl	401C5R2	ND	9.78e+2	ng/dscm	7%O2	2.57e-4	lbs/hr	CE
4-Nitrobiphenyl	401C5R3	ND	1.21e+3	ng/dscm	7%O2	2.68e-4	lbs/hr	CE
4-Nitrobiphenyl	401C5R4	ND	1.16e+3	ng/dscm	7%O2	2.57e-4	lbs/hr	CE
4-Nitrophenol	401C3R1		6.23e+4	ng/dscm	7%O2	1.50e-2	lbs/hr	CE
4-Nitrophenol	401C3R2	ND	2.13e+3	ng/dscm	7%O2	5.15e-4	lbs/hr	CE
4-Nitrophenol	401C3R3		2.06e+4	ng/dscm	7%O2	7.67e-3	lbs/hr	CE
4-Nitrophenol	401C4R1		1.43e+4	ng/dscm	7%O2	2.69e-3	lbs/hr	CE
4-Nitrophenol	401C4R2	2	1.18e+3	ng/dscm	7%O2	2.00e-4	lbs/hr	CE
4-Nitrophenol	401C4R3	2	1.44e+3	ng/dscm	7%O2	2.94e-4	lbs/hr	CE
4-Nitrophenol	401C4R4		1.92e+4	ng/dscm	7%O2	3.26e-3	lbs/hr	CE
4-Nitrophenol	401C5R1	ND	3.65e+3	ng/dscm	7%O2	9.53e-4	lbs/hr	CE
4-Nitrophenol	401C5R2	ND	3.19e+3	ng/dscm	7%O2	8.39e-4	lbs/hr	CE
4-Nitrophenol	401C5R3	ND	3.94e+3	ng/dscm	7%O2	8.74e-4	lbs/hr	CE
4-Nitrophenol	401C5R4		4.30e+4	ng/dscm	7%O2	9.51e-3	lbs/hr	CE
Aniline	401C3R1	ND	8.78e+2	ng/dscm	7%O2	2.12e-4	lbs/hr	CE
Aniline	401C3R2	ND	7.50e+2	ng/dscm	7%O2	1.82e-4	lbs/hr	CE
Aniline	401C3R3	ND	1.01e+3	ng/dscm	7%O2	3.76e-4	lbs/hr	CE
Aniline	401C4R1	ND	7.03e+2	ng/dscm	7%O2	1.32e-4	lbs/hr	CE
Aniline	401C4R2	ND	1.22e+3	ng/dscm	7%O2	2.06e-4	lbs/hr	CE
Aniline	401C4R3	ND	9.54e+2	ng/dscm	7%O2	1.95e-4	lbs/hr	CE
Aniline	401C4R4	ND	1.15e+3	ng/dscm	7%O2	1.95e-4	lbs/hr	CE
Aniline	401C5R1	ND	1.26e+3	ng/dscm	7%O2	3.29e-4	lbs/hr	CE
Aniline	401C5R2	ND	1.13e+3	ng/dscm	7%O2	2.97e-4	lbs/hr	CE
Aniline	401C5R3	ND	1.53e+3	ng/dscm	7%O2	3.39e-4	lbs/hr	CE
Aniline	401C5R4	ND	1.62e+3	ng/dscm	7%O2	3.58e-4	lbs/hr	CE
Benzidine	401C3R1	ND	3.22e+2	ng/dscm	7%O2	7.78e-5	lbs/hr	CE
Benzidine	401C3R2	ND	3.23e+2	ng/dscm	7%O2	7.82e-5	lbs/hr	CE
Benzidine	401C3R3	ND	4.30e+2	ng/dscm	7%O2	1.60e-4	lbs/hr	CE
Benzidine	401C4R1	ND	3.04e+2	ng/dscm	7%O2	5.72e-5	lbs/hr	CE
Benzidine	401C4R2	ND	8.30e+2	ng/dscm	7%O2	1.40e-4	lbs/hr	CE
Benzidine	401C4R3	ND	6.75e+2	ng/dscm	7%O2	1.38e-4	lbs/hr	CE
Benzidine	401C4R4	ND	7.85e+2	ng/dscm	7%O2	1.33e-4	lbs/hr	CE
Benzidine	401C5R1	ND	5.39e+2	ng/dscm	7%O2	1.41e-4	lbs/hr	CE
Benzidine	401C5R2	ND	4.84e+2	ng/dscm	7%O2	1.27e-4	lbs/hr	CE
Benzidine	401C5R3	ND	6.08e+2	ng/dscm	7%O2	1.35e-4	lbs/hr	CE
Benzidine	401C5R4	ND	5.63e+2	ng/dscm	7%O2	1.25e-4	lbs/hr	CE
Benzyl alcohol	401C2R1		8.04e+3	ng/dscm	7%O2	1.94e-3	lbs/hr	CE7%O2
Benzyl alcohol	401C2R2		8.61e+3	ng/dscm	7%O2	2.14e-3	lbs/hr	CE7%O2
Benzyl alcohol	401C2R3		6.74e+3	ng/dscm	7%O2	1.46e-3	lbs/hr	CE7%O2
Benzyl alcohol	401C2R4		6.87e+3	ng/dscm	7%O2	1.55e-3	lbs/hr	CE7%O2
Benzyl alcohol	401C3R1	2	3.81e+3	ng/dscm	7%O2	9.20e-4	lbs/hr	CE
Benzyl alcohol	401C3R2	2	4.01e+3	ng/dscm	7%O2	9.70e-4	lbs/hr	CE
Benzyl alcohol	401C3R3	2	3.64e+3	ng/dscm	7%O2	1.36e-3	lbs/hr	CE
Benzyl alcohol	401C4R1	2	1.20e+3	ng/dscm	7%O2	2.26e-4	lbs/hr	CE
Benzyl alcohol	401C4R2	2	1.98e+3	ng/dscm	7%O2	3.35e-4	lbs/hr	CE
Benzyl alcohol	401C4R3	2	1.44e+3	ng/dscm	7%O2	2.94e-4	lbs/hr	CE
Benzyl alcohol	401C4R4	2	2.72e+3	ng/dscm	7%O2	4.62e-4	lbs/hr	CE
Benzyl alcohol	401C5R1		1.19e+4	ng/dscm	7%O2	3.11e-3	lbs/hr	CE
Benzyl alcohol	401C5R2		5.66e+4	ng/dscm	7%O2	1.49e-2	lbs/hr	CE
Benzyl alcohol	401C5R3		8.04e+4	ng/dscm	7%O2	1.78e-2	lbs/hr	CE
Benzyl alcohol	401C5R4		8.05e+4	ng/dscm	7%O2	1.78e-2	lbs/hr	CE
bis(2-chloroethoxy) Methane	401C3R1	ND	1.06e+3	ng/dscm	7%O2	2.56e-4	lbs/hr	CE
bis(2-chloroethoxy) Methane	401C3R2	ND	8.87e+2	ng/dscm	7%O2	2.15e-4	lbs/hr	CE
bis(2-chloroethoxy) Methane	401C3R3	ND	1.21e+3	ng/dscm	7%O2	4.50e-4	lbs/hr	CE
bis(2-chloroethoxy) Methane	401C4R1	ND	8.42e+2	ng/dscm	7%O2	1.58e-4	lbs/hr	CE
bis(2-chloroethoxy) Methane	401C4R2	ND	9.71e+2	ng/dscm	7%O2	1.64e-4	lbs/hr	CE
bis(2-chloroethoxy) Methane	401C4R3	ND	7.95e+2	ng/dscm	7%O2	1.62e-4	lbs/hr	CE
bis(2-chloroethoxy) Methane	401C4R4	ND	9.62e+2	ng/dscm	7%O2	1.63e-4	lbs/hr	CE

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ASH GROVE CEMENT COMPANY
 2. STATE: KS
 3. CITY: CHANUTE
 4. EP ID: 401 DEVICE NAME: KILN NO. 1

EPA ID: KSD031203318
 SYSTEM TYPE: CEMENT KILN

APC SYSTEM: ESP

REGION: 7

bis(2-chloroethoxy) Methane	401C5R1	ND	1.46e+3	ng/dscm	7%O2	3.81e-4	lbs/hr	CE
bis(2-chloroethoxy) Methane	401C5R2	ND	1.27e+3	ng/dscm	7%O2	3.34e-4	lbs/hr	CE
bis(2-chloroethoxy) Methane	401C5R3	ND	1.72e+3	ng/dscm	7%O2	3.81e-4	lbs/hr	CE
bis(2-chloroethoxy) Methane	401C5R4	ND	1.79e+3	ng/dscm	7%O2	3.96e-4	lbs/hr	CE
bis(2-chloroethyl) Ether	401C3R1	ND	1.36e+3	ng/dscm	7%O2	3.29e-4	lbs/hr	CE
bis(2-chloroethyl) Ether	401C3R2	ND	1.16e+3	ng/dscm	7%O2	2.81e-4	lbs/hr	CE
bis(2-chloroethyl) Ether	401C3R3	ND	1.56e+3	ng/dscm	7%O2	5.81e-4	lbs/hr	CE
bis(2-chloroethyl) Ether	401C4R1	ND	1.09e+3	ng/dscm	7%O2	2.05e-4	lbs/hr	CE
bis(2-chloroethyl) Ether	401C4R2	ND	1.54e+3	ng/dscm	7%O2	2.60e-4	lbs/hr	CE
bis(2-chloroethyl) Ether	401C4R3	ND	1.21e+3	ng/dscm	7%O2	2.47e-4	lbs/hr	CE
bis(2-chloroethyl) Ether	401C4R4	ND	1.46e+3	ng/dscm	7%O2	2.48e-4	lbs/hr	CE
bis(2-chloroethyl) Ether	401C5R1	ND	1.95e+3	ng/dscm	7%O2	5.09e-4	lbs/hr	CE
bis(2-chloroethyl) Ether	401C5R2	ND	1.75e+3	ng/dscm	7%O2	4.60e-4	lbs/hr	CE
bis(2-chloroethyl) Ether	401C5R3	ND	2.36e+3	ng/dscm	7%O2	5.23e-4	lbs/hr	CE
bis(2-chloroethyl) Ether	401C5R4	ND	2.51e+3	ng/dscm	7%O2	5.55e-4	lbs/hr	CE
bis(2-ethylexyl) Phthalate	401C2R2		2.93e+4	ng/dscm	7%O2	7.29e-3	lbs/hr	CE7%O2
bis(2-ethylexyl) Phthalate	401C3R1		1.62e+4	ng/dscm	7%O2	3.91e-3	lbs/hr	CE
bis(2-ethylexyl) Phthalate	401C3R2		1.37e+4	ng/dscm	7%O2	3.32e-3	lbs/hr	CE
bis(2-ethylexyl) Phthalate	401C3R3		3.15e+4	ng/dscm	7%O2	1.17e-2	lbs/hr	CE
bis(2-ethylexyl) Phthalate	401C4R1		1.25e+4	ng/dscm	7%O2	2.35e-3	lbs/hr	CE
bis(2-ethylexyl) Phthalate	401C4R2		1.80e+4	ng/dscm	7%O2	3.04e-3	lbs/hr	CE
bis(2-ethylexyl) Phthalate	401C4R3		7.06e+3	ng/dscm	7%O2	1.44e-3	lbs/hr	CE
bis(2-ethylexyl) Phthalate	401C4R4	2	3.38e+3	ng/dscm	7%O2	5.74e-4	lbs/hr	CE
bis(2-ethylexyl) Phthalate	401C5R1	ND	2.09e+3	ng/dscm	7%O2	5.46e-4	lbs/hr	CE
bis(2-ethylexyl) Phthalate	401C5R2		4.19e+4	ng/dscm	7%O2	1.10e-2	lbs/hr	CE
bis(2-ethylexyl) Phthalate	401C5R3	2	6.20e+3	ng/dscm	7%O2	1.38e-3	lbs/hr	CE
bis(2-ethylexyl) Phthalate	401C5R4	2	3.52e+3	ng/dscm	7%O2	7.78e-4	lbs/hr	CE
Butylbenzylphthalate	401C3R1	2	8.60e+2	ng/dscm	7%O2	2.08e-4	lbs/hr	CE
Butylbenzylphthalate	401C3R2	2	1.08e+3	ng/dscm	7%O2	2.61e-4	lbs/hr	CE
Butylbenzylphthalate	401C3R3	2	1.48e+3	ng/dscm	7%O2	5.51e-4	lbs/hr	CE
Butylbenzylphthalate	401C4R1	2	3.39e+2	ng/dscm	7%O2	6.38e-5	lbs/hr	CE
Butylbenzylphthalate	401C4R2	2	9.07e+2	ng/dscm	7%O2	1.53e-4	lbs/hr	CE
Butylbenzylphthalate	401C4R3	2	3.35e+2	ng/dscm	7%O2	6.84e-5	lbs/hr	CE
Butylbenzylphthalate	401C4R4	2	3.92e+2	ng/dscm	7%O2	6.66e-5	lbs/hr	CE
Butylbenzylphthalate	401C5R1	2	2.98e+2	ng/dscm	7%O2	7.78e-5	lbs/hr	CE
Butylbenzylphthalate	401C5R2	2	8.79e+2	ng/dscm	7%O2	2.31e-4	lbs/hr	CE
Butylbenzylphthalate	401C5R3	2	5.26e+2	ng/dscm	7%O2	1.17e-4	lbs/hr	CE
Butylbenzylphthalate	401C5R4	2	4.06e+2	ng/dscm	7%O2	8.98e-5	lbs/hr	CE
di-n-Butyl Phthalate	401C3R1		3.00e+4	ng/dscm	7%O2	7.25e-3	lbs/hr	CE
di-n-Butyl Phthalate	401C3R2		2.46e+4	ng/dscm	7%O2	5.95e-3	lbs/hr	CE
di-n-Butyl Phthalate	401C3R3	2	2.65e+3	ng/dscm	7%O2	9.86e-4	lbs/hr	CE
di-n-Butyl Phthalate	401C4R1		1.11e+4	ng/dscm	7%O2	2.09e-3	lbs/hr	CE
di-n-Butyl Phthalate	401C4R2		1.26e+4	ng/dscm	7%O2	2.13e-3	lbs/hr	CE
di-n-Butyl Phthalate	401C4R3	2	1.10e+3	ng/dscm	7%O2	2.24e-4	lbs/hr	CE
di-n-Butyl Phthalate	401C4R4		8.18e+4	ng/dscm	7%O2	1.39e-2	lbs/hr	CE
di-n-Butyl Phthalate	401C5R1	2	5.67e+3	ng/dscm	7%O2	1.48e-3	lbs/hr	CE
di-n-Butyl Phthalate	401C5R2	2	4.67e+3	ng/dscm	7%O2	1.23e-3	lbs/hr	CE
di-n-Butyl Phthalate	401C5R3	2	5.63e+3	ng/dscm	7%O2	1.25e-3	lbs/hr	CE
di-n-Butyl Phthalate	401C5R4	2	4.30e+3	ng/dscm	7%O2	9.51e-4	lbs/hr	CE
di-n-Octyl Phthalate	401C3R1	ND	5.31e+2	ng/dscm	7%O2	1.28e-4	lbs/hr	CE
di-n-Octyl Phthalate	401C3R2	ND	1.15e+2	ng/dscm	7%O2	2.78e-5	lbs/hr	CE
di-n-Octyl Phthalate	401C3R3	ND	1.51e+2	ng/dscm	7%O2	5.62e-5	lbs/hr	CE
di-n-Octyl Phthalate	401C4R1	ND	5.25e+3	ng/dscm	7%O2	9.87e-4	lbs/hr	CE
di-n-Octyl Phthalate	401C4R2	ND	1.27e+2	ng/dscm	7%O2	2.15e-5	lbs/hr	CE
di-n-Octyl Phthalate	401C4R3	ND	1.07e+2	ng/dscm	7%O2	2.18e-5	lbs/hr	CE
di-n-Octyl Phthalate	401C4R4	ND	1.34e+2	ng/dscm	7%O2	2.28e-5	lbs/hr	CE
di-n-Octyl Phthalate	401C5R1	ND	1.83e+2	ng/dscm	7%O2	4.78e-5	lbs/hr	CE
di-n-Octyl Phthalate	401C5R2	ND	1.48e+2	ng/dscm	7%O2	3.89e-5	lbs/hr	CE
di-n-Octyl Phthalate	401C5R3	ND	1.96e+2	ng/dscm	7%O2	4.35e-5	lbs/hr	CE
di-n-Octyl Phthalate	401C5R4	ND	2.69e+2	ng/dscm	7%O2	5.95e-5	lbs/hr	CE
Dibenzofuran	401C2R1		3.72e+4	ng/dscm	7%O2	8.98e-3	lbs/hr	CE7%O2
Dibenzofuran	401C2R2		4.02e+4	ng/dscm	7%O2	1.00e-2	lbs/hr	CE7%O2

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ASH GROVE CEMENT COMPANY
 2. STATE: KS
 3. CITY: CHANUTE
 4. EP ID: 401 DEVICE NAME: KILN NO. 1

EPA KSD031203318
 SYSTEM TYPE: CEMENT KILN

REGION: 7
 APC SYSTEM: ESP

Dibenzofuran	401C2R3		3.77e+4	ng/dscm	7%O2	8.18e-3	lbs/hr	CE7%O2
Dibenzofuran	401C2R4		4.17e+4	ng/dscm	7%O2	9.39e-3	lbs/hr	CE7%O2
Diethylphthalate	401C3R1	2	1.59e+3	ng/dscm	7%O2	3.84e-4	lbs/hr	CE
Diethylphthalate	401C3R2	2	2.25e+3	ng/dscm	7%O2	5.45e-4	lbs/hr	CE
Diethylphthalate	401C3R3		1.06e+3	ng/dscm	7%O2	3.95e-4	lbs/hr	CE
Diethylphthalate	401C4R1	2	5.28e+2	ng/dscm	7%O2	9.93e-5	lbs/hr	CE
Diethylphthalate	401C4R2	2	8.12e+2	ng/dscm	7%O2	1.37e-4	lbs/hr	CE
Diethylphthalate	401C4R3	2	4.34e+2	ng/dscm	7%O2	8.86e-5	lbs/hr	CE
Diethylphthalate	401C4R4	2	7.20e+2	ng/dscm	7%O2	1.22e-4	lbs/hr	CE
Diethylphthalate	401C5R1	2	4.26e+3	ng/dscm	7%O2	1.11e-3	lbs/hr	CE
Diethylphthalate	401C5R2	2	5.64e+3	ng/dscm	7%O2	1.48e-3	lbs/hr	CE
Diethylphthalate	401C5R3	2	5.26e+3	ng/dscm	7%O2	1.17e-3	lbs/hr	CE
Diethylphthalate	401C5R4	2	3.52e+3	ng/dscm	7%O2	7.78e-4	lbs/hr	CE
Dimethylphthalate	401C3R1	ND	4.48e+2	ng/dscm	7%O2	1.08e-4	lbs/hr	CE
Dimethylphthalate	401C3R2	ND	3.83e+2	ng/dscm	7%O2	9.27e-5	lbs/hr	CE
Dimethylphthalate	401C3R3	ND	5.38e+2	ng/dscm	7%O2	2.00e-4	lbs/hr	CE
Dimethylphthalate	401C4R1	ND	3.69e+2	ng/dscm	7%O2	6.94e-5	lbs/hr	CE
Dimethylphthalate	401C4R2	ND	5.30e+2	ng/dscm	7%O2	8.96e-5	lbs/hr	CE
Dimethylphthalate	401C4R3	ND	4.17e+2	ng/dscm	7%O2	8.51e-5	lbs/hr	CE
Dimethylphthalate	401C4R4	ND	5.16e+2	ng/dscm	7%O2	8.77e-5	lbs/hr	CE
Dimethylphthalate	401C5R1	ND	6.55e+2	ng/dscm	7%O2	1.71e-4	lbs/hr	CE
Dimethylphthalate	401C5R2	ND	5.74e+2	ng/dscm	7%O2	1.51e-4	lbs/hr	CE
Dimethylphthalate	401C5R3	ND	7.12e+2	ng/dscm	7%O2	1.58e-4	lbs/hr	CE
Dimethylphthalate	401C5R4	ND	7.25e+2	ng/dscm	7%O2	1.60e-4	lbs/hr	CE
Ethylbenzene	401C2R1		5.34e+4	ng/dscm	7%O2	1.29e-2	lbs/hr	CE7%O2
Ethylbenzene	401C2R2		7.96e+4	ng/dscm	7%O2	1.98e-2	lbs/hr	CE7%O2
Ethylbenzene	401C2R3		2.51e+4	ng/dscm	7%O2	5.45e-3	lbs/hr	CE7%O2
Ethylbenzene	401C2R4		3.53e+4	ng/dscm	7%O2	7.95e-3	lbs/hr	CE7%O2
Ethylbenzene	401C3R1	3	2.15e+4	ng/dscm	7%O2	5.19e-3	lbs/hr	CE
Ethylbenzene	401C3R2	3	2.56e+4	ng/dscm	7%O2	6.20e-3	lbs/hr	CE
Ethylbenzene	401C3R3	3	3.35e+4	ng/dscm	7%O2	1.25e-2	lbs/hr	CE
Ethylbenzene	401C4R1	5	9.10e+3	ng/dscm	7%O2	1.71e-3	lbs/hr	CE
Ethylbenzene	401C4R2	3	8.98e+3	ng/dscm	7%O2	1.52e-3	lbs/hr	CE
Ethylbenzene	401C4R3	5	1.29e+4	ng/dscm	7%O2	2.63e-3	lbs/hr	CE
Ethylbenzene	401C4R4	5	2.22e+4	ng/dscm	7%O2	3.77e-3	lbs/hr	CE
Ethylbenzene	401C5R1	4	1.37e+4	ng/dscm	7%O2	3.57e-3	lbs/hr	CE
Ethylbenzene	401C5R2	5	1.65e+4	ng/dscm	7%O2	4.35e-3	lbs/hr	CE
Ethylbenzene	401C5R3	5	1.94e+4	ng/dscm	7%O2	4.30e-3	lbs/hr	CE
Ethylbenzene	401C5R4	5	2.35e+4	ng/dscm	7%O2	5.19e-3	lbs/hr	CE
Hexachlorobenzene	401C3R1	ND	1.17e+3	ng/dscm	7%O2	2.83e-4	lbs/hr	CE
Hexachlorobenzene	401C3R2	ND	1.09e+3	ng/dscm	7%O2	2.64e-4	lbs/hr	CE
Hexachlorobenzene	401C3R3	ND	1.50e+3	ng/dscm	7%O2	5.58e-4	lbs/hr	CE
Hexachlorobenzene	401C4R1	ND	1.00e+3	ng/dscm	7%O2	1.88e-4	lbs/hr	CE
Hexachlorobenzene	401C4R2	ND	1.37e+3	ng/dscm	7%O2	2.32e-4	lbs/hr	CE
Hexachlorobenzene	401C4R3	ND	1.05e+3	ng/dscm	7%O2	2.14e-4	lbs/hr	CE
Hexachlorobenzene	401C4R4	ND	1.28e+3	ng/dscm	7%O2	2.17e-4	lbs/hr	CE
Hexachlorobenzene	401C5R1	ND	2.01e+3	ng/dscm	7%O2	5.25e-4	lbs/hr	CE
Hexachlorobenzene	401C5R2	ND	1.71e+3	ng/dscm	7%O2	4.50e-4	lbs/hr	CE
Hexachlorobenzene	401C5R3	ND	2.11e+3	ng/dscm	7%O2	4.68e-4	lbs/hr	CE
Hexachlorobenzene	401C5R4	ND	2.02e+3	ng/dscm	7%O2	4.47e-4	lbs/hr	CE
Hexachlorobutadiene	401C3R1	ND	2.23e+3	ng/dscm	7%O2	5.39e-4	lbs/hr	CE
Hexachlorobutadiene	401C3R2	ND	1.87e+3	ng/dscm	7%O2	4.53e-4	lbs/hr	CE
Hexachlorobutadiene	401C3R3	ND	2.55e+3	ng/dscm	7%O2	9.49e-4	lbs/hr	CE
Hexachlorobutadiene	401C4R1	ND	1.77e+3	ng/dscm	7%O2	3.33e-4	lbs/hr	CE
Hexachlorobutadiene	401C4R2	ND	2.11e+3	ng/dscm	7%O2	3.57e-4	lbs/hr	CE
Hexachlorobutadiene	401C4R3	ND	1.74e+3	ng/dscm	7%O2	3.55e-4	lbs/hr	CE
Hexachlorobutadiene	401C4R4	ND	2.09e+3	ng/dscm	7%O2	3.55e-4	lbs/hr	CE
Hexachlorobutadiene	401C5R1	ND	3.08e+3	ng/dscm	7%O2	8.04e-4	lbs/hr	CE
Hexachlorobutadiene	401C5R2	ND	2.68e+3	ng/dscm	7%O2	7.05e-4	lbs/hr	CE
Hexachlorobutadiene	401C5R3	ND	3.63e+3	ng/dscm	7%O2	8.05e-4	lbs/hr	CE
Hexachlorobutadiene	401C5R4	ND	3.77e+3	ng/dscm	7%O2	8.34e-4	lbs/hr	CE
Hexachlorocyclopentadiene	401C3R1	ND	2.29e+3	ng/dscm	7%O2	5.53e-4	lbs/hr	CE

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ASH GROVE CEMENT COMPANY
 2. STATE: KS
 3. CITY: CHANUTE
 4. EP ID: 401 DEVICE NAME: KILN NO. 1

EPA KSD031203318
 SYSTEM TYPE: CEMENT KILN

APC SYSTEM: ESP

REGION: 7

Hexachlorocyclopentadiene	401C3R2	ND	1.97e+3	ng/dscm	7%O2	4.77e-4	lbs/hr	CE
Hexachlorocyclopentadiene	401C3R3	ND	2.78e+3	ng/dscm	7%O2	1.03e-3	lbs/hr	CE
Hexachlorocyclopentadiene	401C4R1	ND	1.89e+3	ng/dscm	7%O2	3.55e-4	lbs/hr	CE
Hexachlorocyclopentadiene	401C4R2	ND	2.89e+3	ng/dscm	7%O2	4.89e-4	lbs/hr	CE
Hexachlorocyclopentadiene	401C4R3	ND	2.27e+3	ng/dscm	7%O2	4.63e-4	lbs/hr	CE
Hexachlorocyclopentadiene	401C4R4	ND	2.82e+3	ng/dscm	7%O2	4.79e-4	lbs/hr	CE
Hexachlorocyclopentadiene	401C5R1	ND	3.37e+3	ng/dscm	7%O2	8.80e-4	lbs/hr	CE
Hexachlorocyclopentadiene	401C5R2	ND	2.95e+3	ng/dscm	7%O2	7.76e-4	lbs/hr	CE
Hexachlorocyclopentadiene	401C5R3	ND	3.65e+3	ng/dscm	7%O2	8.09e-4	lbs/hr	CE
Hexachlorocyclopentadiene	401C5R4	ND	3.74e+3	ng/dscm	7%O2	8.27e-4	lbs/hr	CE
Hexachloroethane	401C3R1	ND	1.96e+3	ng/dscm	7%O2	4.73e-4	lbs/hr	CE
Hexachloroethane	401C3R2	ND	1.68e+3	ng/dscm	7%O2	4.07e-4	lbs/hr	CE
Hexachloroethane	401C3R3	ND	2.26e+3	ng/dscm	7%O2	8.41e-4	lbs/hr	CE
Hexachloroethane	401C4R1	ND	1.58e+3	ng/dscm	7%O2	2.97e-4	lbs/hr	CE
Hexachloroethane	401C4R2	ND	2.07e+3	ng/dscm	7%O2	3.50e-4	lbs/hr	CE
Hexachloroethane	401C4R3	ND	1.62e+3	ng/dscm	7%O2	3.31e-4	lbs/hr	CE
Hexachloroethane	401C4R4	ND	1.95e+3	ng/dscm	7%O2	3.31e-4	lbs/hr	CE
Hexachloroethane	401C5R1	ND	2.82e+3	ng/dscm	7%O2	7.36e-4	lbs/hr	CE
Hexachloroethane	401C5R2	ND	2.53e+3	ng/dscm	7%O2	6.65e-4	lbs/hr	CE
Hexachloroethane	401C5R3	ND	3.42e+3	ng/dscm	7%O2	7.58e-4	lbs/hr	CE
Hexachloroethane	401C5R4	ND	3.63e+3	ng/dscm	7%O2	8.03e-4	lbs/hr	CE
Hydroquinone	401C3R1	ND	4.14e+3	ng/dscm	7%O2	1.00e-3	lbs/hr	CE
Hydroquinone	401C3R2	ND	4.82e+2	ng/dscm	7%O2	1.17e-4	lbs/hr	CE
Hydroquinone	401C3R3	ND	3.43e+3	ng/dscm	7%O2	1.28e-3	lbs/hr	CE
Hydroquinone	401C4R1	ND	1.74e+3	ng/dscm	7%O2	3.27e-4	lbs/hr	CE
Hydroquinone	401C4R2	ND	3.39e+2	ng/dscm	7%O2	5.73e-5	lbs/hr	CE
Hydroquinone	401C4R3	ND	7.09e+2	ng/dscm	7%O2	1.45e-4	lbs/hr	CE
Hydroquinone	401C4R4	ND	2.04e+3	ng/dscm	7%O2	3.47e-4	lbs/hr	CE
Hydroquinone	401C5R1	2	1.24e+3	ng/dscm	7%O2	3.24e-4	lbs/hr	CE
Hydroquinone	401C5R2	2	2.01e+3	ng/dscm	7%O2	5.28e-4	lbs/hr	CE
Hydroquinone	401C5R3	2	1.27e+3	ng/dscm	7%O2	2.82e-4	lbs/hr	CE
Hydroquinone	401C5R4	2	4.84e+3	ng/dscm	7%O2	1.07e-3	lbs/hr	CE
Methyl Methacrylate	401C3R1	ND	1.66e+3	ng/dscm	7%O2	4.01e-4	lbs/hr	CE
Methyl Methacrylate	401C3R2	ND	1.10e+3	ng/dscm	7%O2	2.66e-4	lbs/hr	CE
Methyl Methacrylate	401C3R3	ND	1.42e+3	ng/dscm	7%O2	5.29e-4	lbs/hr	CE
Methyl Methacrylate	401C4R1	ND	9.09e+2	ng/dscm	7%O2	1.71e-4	lbs/hr	CE
Methyl Methacrylate	401C4R2	ND	1.29e+3	ng/dscm	7%O2	2.18e-4	lbs/hr	CE
Methyl Methacrylate	401C4R3	ND	4.13e+2	ng/dscm	7%O2	8.43e-5	lbs/hr	CE
Methyl Methacrylate	401C4R4	ND	2.96e+2	ng/dscm	7%O2	5.03e-5	lbs/hr	CE
Methyl Methacrylate	401C5R1	ND	7.48e+2	ng/dscm	7%O2	1.95e-4	lbs/hr	CE
Methyl Methacrylate	401C5R2	ND	7.68e+2	ng/dscm	7%O2	2.02e-4	lbs/hr	CE
Methyl Methacrylate	401C5R3	ND	8.71e+2	ng/dscm	7%O2	1.93e-4	lbs/hr	CE
Methyl Methacrylate	401C5R4	ND	9.24e+2	ng/dscm	7%O2	2.04e-4	lbs/hr	CE
N-Nitroso-di-n-propylamine	401C3R1	ND	2.41e+3	ng/dscm	7%O2	5.82e-4	lbs/hr	CE
N-Nitroso-di-n-propylamine	401C3R2	ND	2.06e+3	ng/dscm	7%O2	4.99e-4	lbs/hr	CE
N-Nitroso-di-n-propylamine	401C3R3	ND	2.78e+3	ng/dscm	7%O2	1.03e-3	lbs/hr	CE
N-Nitroso-di-n-propylamine	401C4R1	ND	1.94e+3	ng/dscm	7%O2	3.65e-4	lbs/hr	CE
N-Nitroso-di-n-propylamine	401C4R2	ND	2.76e+3	ng/dscm	7%O2	4.67e-4	lbs/hr	CE
N-Nitroso-di-n-propylamine	401C4R3	ND	2.15e+3	ng/dscm	7%O2	4.39e-4	lbs/hr	CE
N-Nitroso-di-n-propylamine	401C4R4	ND	2.60e+3	ng/dscm	7%O2	4.42e-4	lbs/hr	CE
N-Nitroso-di-n-propylamine	401C5R1	ND	3.47e+3	ng/dscm	7%O2	9.06e-4	lbs/hr	CE
N-Nitroso-di-n-propylamine	401C5R2	ND	3.11e+3	ng/dscm	7%O2	8.18e-4	lbs/hr	CE
N-Nitroso-di-n-propylamine	401C5R3	ND	4.21e+3	ng/dscm	7%O2	9.34e-4	lbs/hr	CE
N-Nitroso-di-n-propylamine	401C5R4	ND	4.46e+3	ng/dscm	7%O2	9.86e-4	lbs/hr	CE
N-Nitrosodiphenylamine	401C3R1	ND	4.90e+2	ng/dscm	7%O2	1.18e-4	lbs/hr	CE
N-Nitrosodiphenylamine	401C3R2	ND	4.60e+2	ng/dscm	7%O2	1.11e-4	lbs/hr	CE
N-Nitrosodiphenylamine	401C3R3	ND	6.31e+2	ng/dscm	7%O2	2.35e-4	lbs/hr	CE
N-Nitrosodiphenylamine	401C4R1	ND	4.24e+2	ng/dscm	7%O2	7.97e-5	lbs/hr	CE
N-Nitrosodiphenylamine	401C4R2	ND	7.74e+2	ng/dscm	7%O2	1.31e-4	lbs/hr	CE
N-Nitrosodiphenylamine	401C4R3	ND	5.93e+2	ng/dscm	7%O2	1.21e-4	lbs/hr	CE
N-Nitrosodiphenylamine	401C4R4	ND	7.20e+2	ng/dscm	7%O2	1.22e-4	lbs/hr	CE
N-Nitrosodiphenylamine	401C5R1	ND	8.46e+2	ng/dscm	7%O2	2.21e-4	lbs/hr	CE
N-Nitrosodiphenylamine	401C5R2	ND	7.22e+2	ng/dscm	7%O2	1.90e-4	lbs/hr	CE

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ASH GROVE CEMENT COMPANY
 2. STATE: KS
 3. CITY: CHANUTE
 4. EP ID: 401 DEVICE NAME: KILN NO. 1

EPA KSD031203318
 SYSTEM TYPE: CEMENT KILN

APC SYSTEM: ESP

REGION: 7

N-Nitrosodiphenylamine	401C5R3	ND	8.92e+2	ng/dscm	7%O2	1.98e-4	lbs/hr	CE
N-Nitrosodiphenylamine	401C5R4	ND	8.52e+2	ng/dscm	7%O2	1.88e-4	lbs/hr	CE
n-Nitrosomorpholine	401C3R1	ND	3.00e+3	ng/dscm	7%O2	7.25e-4	lbs/hr	CE
n-Nitrosomorpholine	401C3R2	ND	2.57e+3	ng/dscm	7%O2	6.22e-4	lbs/hr	CE
n-Nitrosomorpholine	401C3R3	ND	3.46e+3	ng/dscm	7%O2	1.29e-3	lbs/hr	CE
n-Nitrosomorpholine	401C4R1	ND	2.41e+3	ng/dscm	7%O2	4.53e-4	lbs/hr	CE
n-Nitrosomorpholine	401C4R2	ND	3.49e+3	ng/dscm	7%O2	5.90e-4	lbs/hr	CE
n-Nitrosomorpholine	401C4R3	ND	2.72e+3	ng/dscm	7%O2	5.55e-4	lbs/hr	CE
n-Nitrosomorpholine	401C4R4	ND	3.28e+3	ng/dscm	7%O2	5.57e-4	lbs/hr	CE
n-Nitrosomorpholine	401C5R1	ND	4.32e+3	ng/dscm	7%O2	1.13e-3	lbs/hr	CE
n-Nitrosomorpholine	401C5R2	ND	3.87e+3	ng/dscm	7%O2	1.02e-3	lbs/hr	CE
n-Nitrosomorpholine	401C5R3	ND	5.24e+3	ng/dscm	7%O2	1.16e-3	lbs/hr	CE
n-Nitrosomorpholine	401C5R4	ND	5.55e+3	ng/dscm	7%O2	1.23e-3	lbs/hr	CE
Nitrobenzene	401C3R1	ND	1.36e+3	ng/dscm	7%O2	3.29e-4	lbs/hr	CE
Nitrobenzene	401C3R2	ND	1.13e+3	ng/dscm	7%O2	2.73e-4	lbs/hr	CE
Nitrobenzene	401C3R3	ND	1.55e+3	ng/dscm	7%O2	5.77e-4	lbs/hr	CE
Nitrobenzene	401C4R1	ND	1.08e+3	ng/dscm	7%O2	2.03e-4	lbs/hr	CE
Nitrobenzene	401C4R2	ND	1.42e+3	ng/dscm	7%O2	2.40e-4	lbs/hr	CE
Nitrobenzene	401C4R3	ND	1.17e+3	ng/dscm	7%O2	2.39e-4	lbs/hr	CE
Nitrobenzene	401C4R4	ND	1.41e+3	ng/dscm	7%O2	2.40e-4	lbs/hr	CE
Nitrobenzene	401C5R1	ND	1.87e+3	ng/dscm	7%O2	4.88e-4	lbs/hr	CE
Nitrobenzene	401C5R2	ND	1.63e+3	ng/dscm	7%O2	4.28e-4	lbs/hr	CE
Nitrobenzene	401C5R3	ND	2.20e+3	ng/dscm	7%O2	4.88e-4	lbs/hr	CE
Nitrobenzene	401C5R4	ND	2.29e+3	ng/dscm	7%O2	5.06e-4	lbs/hr	CE
o-Anisidine	401C3R1	ND	1.31e+3	ng/dscm	7%O2	3.16e-4	lbs/hr	CE
o-Anisidine	401C3R2	ND	1.10e+3	ng/dscm	7%O2	2.66e-4	lbs/hr	CE
o-Anisidine	401C3R3	ND	1.51e+3	ng/dscm	7%O2	5.62e-4	lbs/hr	CE
o-Anisidine	401C4R1	ND	1.04e+3	ng/dscm	7%O2	1.96e-4	lbs/hr	CE
o-Anisidine	401C4R2	ND	1.71e+3	ng/dscm	7%O2	2.89e-4	lbs/hr	CE
o-Anisidine	401C4R3	ND	1.41e+3	ng/dscm	7%O2	2.88e-4	lbs/hr	CE
o-Anisidine	401C4R4	ND	1.69e+3	ng/dscm	7%O2	2.87e-4	lbs/hr	CE
o-Anisidine	401C5R1	ND	1.81e+3	ng/dscm	7%O2	4.72e-4	lbs/hr	CE
o-Anisidine	401C5R2	ND	1.58e+3	ng/dscm	7%O2	4.15e-4	lbs/hr	CE
o-Anisidine	401C5R3	ND	2.14e+3	ng/dscm	7%O2	4.75e-4	lbs/hr	CE
o-Anisidine	401C5R4	ND	2.22e+3	ng/dscm	7%O2	4.91e-4	lbs/hr	CE
o-Toluidine	401C3R1	ND	8.60e+2	ng/dscm	7%O2	2.08e-4	lbs/hr	CE
o-Toluidine	401C3R2	ND	7.34e+2	ng/dscm	7%O2	1.78e-4	lbs/hr	CE
o-Toluidine	401C3R3	ND	9.90e+2	ng/dscm	7%O2	3.69e-4	lbs/hr	CE
o-Toluidine	401C4R1	ND	6.93e+2	ng/dscm	7%O2	1.30e-4	lbs/hr	CE
o-Toluidine	401C4R2	ND	1.05e+3	ng/dscm	7%O2	1.78e-4	lbs/hr	CE
o-Toluidine	401C4R3	ND	8.21e+2	ng/dscm	7%O2	1.68e-4	lbs/hr	CE
o-Toluidine	401C4R4	ND	9.89e+2	ng/dscm	7%O2	1.68e-4	lbs/hr	CE
o-Toluidine	401C5R1	ND	1.24e+3	ng/dscm	7%O2	3.24e-4	lbs/hr	CE
o-Toluidine	401C5R2	ND	1.11e+3	ng/dscm	7%O2	2.92e-4	lbs/hr	CE
o-Toluidine	401C5R3	ND	1.51e+3	ng/dscm	7%O2	3.35e-4	lbs/hr	CE
o-Toluidine	401C5R4	ND	1.59e+3	ng/dscm	7%O2	3.52e-4	lbs/hr	CE
Pentachlorobenzene	401C3R1	ND	1.45e+3	ng/dscm	7%O2	3.50e-4	lbs/hr	CE
Pentachlorobenzene	401C3R2	ND	1.24e+3	ng/dscm	7%O2	3.00e-4	lbs/hr	CE
Pentachlorobenzene	401C3R3	ND	2.34e+4	ng/dscm	7%O2	8.71e-3	lbs/hr	CE
Pentachlorobenzene	401C4R1	ND	1.19e+3	ng/dscm	7%O2	2.24e-4	lbs/hr	CE
Pentachlorobenzene	401C4R2	ND	1.84e+3	ng/dscm	7%O2	3.11e-4	lbs/hr	CE
Pentachlorobenzene	401C4R3	ND	1.45e+3	ng/dscm	7%O2	2.96e-4	lbs/hr	CE
Pentachlorobenzene	401C4R4	ND	1.81e+3	ng/dscm	7%O2	3.07e-4	lbs/hr	CE
Pentachlorobenzene	401C5R1	ND	2.13e+3	ng/dscm	7%O2	5.56e-4	lbs/hr	CE
Pentachlorobenzene	401C5R2	ND	1.86e+3	ng/dscm	7%O2	4.89e-4	lbs/hr	CE
Pentachlorobenzene	401C5R3	ND	2.31e+3	ng/dscm	7%O2	5.12e-4	lbs/hr	CE
Pentachlorobenzene	401C5R4	ND	2.36e+3	ng/dscm	7%O2	5.22e-4	lbs/hr	CE
Pentachloronitrobenzene	401C3R1	ND	2.88e+3	ng/dscm	7%O2	6.96e-4	lbs/hr	CE
Pentachloronitrobenzene	401C3R2	ND	2.68e+3	ng/dscm	7%O2	6.49e-4	lbs/hr	CE
Pentachloronitrobenzene	401C3R3	ND	3.69e+3	ng/dscm	7%O2	1.37e-3	lbs/hr	CE
Pentachloronitrobenzene	401C4R1	ND	2.47e+3	ng/dscm	7%O2	4.65e-4	lbs/hr	CE
Pentachloronitrobenzene	401C4R2	ND	4.39e+3	ng/dscm	7%O2	7.42e-4	lbs/hr	CE

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ASH GROVE CEMENT COMPANY
 2. STATE: KS
 3. CITY: CHANUTE
 4. EP ID: 401 DEVICE NAME: KILN NO. 1

EPA KSD031203318
 SYSTEM TYPE: CEMENT KILN

APC SYSTEM: ESP

REGION: 7

Pentachloronitrobenzene	401C4R3	ND	3.37e+3	ng/dscm	7%O2	6.88e-4	lbs/hr	CE
Pentachloronitrobenzene	401C4R4	ND	4.08e+3	ng/dscm	7%O2	6.93e-4	lbs/hr	CE
Pentachloronitrobenzene	401C5R1	ND	4.96e+3	ng/dscm	7%O2	1.29e-3	lbs/hr	CE
Pentachloronitrobenzene	401C5R2	ND	4.22e+3	ng/dscm	7%O2	1.11e-3	lbs/hr	CE
Pentachloronitrobenzene	401C5R3	ND	5.21e+3	ng/dscm	7%O2	1.16e-3	lbs/hr	CE
Pentachloronitrobenzene	401C5R4	ND	4.99e+3	ng/dscm	7%O2	1.10e-3	lbs/hr	CE
Pentachlorophenol	401C3R1	ND	1.37e+3	ng/dscm	7%O2	3.31e-4	lbs/hr	CE
Pentachlorophenol	401C3R2	ND	1.28e+3	ng/dscm	7%O2	3.10e-4	lbs/hr	CE
Pentachlorophenol	401C3R3	ND	1.76e+3	ng/dscm	7%O2	6.55e-4	lbs/hr	CE
Pentachlorophenol	401C4R1	ND	1.18e+3	ng/dscm	7%O2	2.22e-4	lbs/hr	CE
Pentachlorophenol	401C4R2	ND	2.17e+3	ng/dscm	7%O2	3.67e-4	lbs/hr	CE
Pentachlorophenol	401C4R3	ND	1.66e+3	ng/dscm	7%O2	3.39e-4	lbs/hr	CE
Pentachlorophenol	401C4R4	ND	2.02e+3	ng/dscm	7%O2	3.43e-4	lbs/hr	CE
Pentachlorophenol	401C5R1	ND	2.37e+3	ng/dscm	7%O2	6.19e-4	lbs/hr	CE
Pentachlorophenol	401C5R2	ND	2.01e+3	ng/dscm	7%O2	5.28e-4	lbs/hr	CE
Pentachlorophenol	401C5R3	ND	2.49e+3	ng/dscm	7%O2	5.52e-4	lbs/hr	CE
Pentachlorophenol	401C5R4	ND	2.38e+3	ng/dscm	7%O2	5.26e-4	lbs/hr	CE
Phenol	401C2R1		1.29e+5	ng/dscm	7%O2	3.11e-2	lbs/hr	CE7%O2
Phenol	401C2R2		1.01e+5	ng/dscm	7%O2	2.52e-2	lbs/hr	CE7%O2
Phenol	401C2R3		9.44e+4	ng/dscm	7%O2	2.05e-2	lbs/hr	CE7%O2
Phenol	401C2R4		1.17e+5	ng/dscm	7%O2	2.64e-2	lbs/hr	CE7%O2
Phenol	401C3R1	2	1.01e+3	ng/dscm	7%O2	2.44e-4	lbs/hr	CE
Phenol	401C3R2		1.19e+5	ng/dscm	7%O2	2.88e-2	lbs/hr	CE
Phenol	401C3R3		5.10e+4	ng/dscm	7%O2	1.90e-2	lbs/hr	CE
Phenol	401C4R1	2	3.89e+2	ng/dscm	7%O2	7.32e-5	lbs/hr	CE
Phenol	401C4R2		2.28e+4	ng/dscm	7%O2	3.86e-3	lbs/hr	CE
Phenol	401C4R3		2.77e+4	ng/dscm	7%O2	5.65e-3	lbs/hr	CE
Phenol	401C4R4		3.15e+4	ng/dscm	7%O2	5.35e-3	lbs/hr	CE
Phenol	401C5R1		5.64e+4	ng/dscm	7%O2	1.47e-2	lbs/hr	CE
Phenol	401C5R2		8.37e+4	ng/dscm	7%O2	2.20e-2	lbs/hr	CE
Phenol	401C5R3		7.63e+4	ng/dscm	7%O2	1.69e-2	lbs/hr	CE
Phenol	401C5R4		2.12e+4	ng/dscm	7%O2	4.69e-3	lbs/hr	CE
Pyridine	401C3R1	ND	1.64e+3	ng/dscm	7%O2	3.96e-4	lbs/hr	CE
Pyridine	401C3R2		2.09e+3	ng/dscm	7%O2	5.06e-4	lbs/hr	CE
Pyridine	401C3R3		2.34e+4	ng/dscm	7%O2	8.71e-3	lbs/hr	CE
Pyridine	401C4R1	ND	1.32e+3	ng/dscm	7%O2	2.48e-4	lbs/hr	CE
Pyridine	401C4R2	ND	7.20e+3	ng/dscm	7%O2	1.22e-3	lbs/hr	CE
Pyridine	401C4R3		8.61e+3	ng/dscm	7%O2	1.76e-3	lbs/hr	CE
Pyridine	401C4R4		1.35e+4	ng/dscm	7%O2	2.29e-3	lbs/hr	CE
Pyridine	401C5R1	ND	2.35e+3	ng/dscm	7%O2	6.13e-4	lbs/hr	CE
Pyridine	401C5R2	ND	2.11e+3	ng/dscm	7%O2	5.55e-4	lbs/hr	CE
Pyridine	401C5R3	ND	2.85e+3	ng/dscm	7%O2	6.32e-4	lbs/hr	CE
Pyridine	401C5R4	ND	3.02e+3	ng/dscm	7%O2	6.68e-4	lbs/hr	CE

7. Category: THC & CO

Analysis:

8. Substance	9. Run ID	Concentration		Mass Rate	Calc
CO	401C1R1	6.26e+2	ppmv 7%O2	1.58e+2 lbs/hr	CE7%O2
CO	401C1R2	1.01e+3	ppmv 7%O2	2.61e+2 lbs/hr	CE7%O2
CO	401C1R3	8.58e+2	ppmv 7%O2	2.09e+2 lbs/hr	CE7%O2
CO	401C1R4	1.20e+3	ppmv 7%O2	3.04e+2 lbs/hr	CE7%O2
CO	401C2R1	4.50e+2	ppmv 7%O2	1.26e+2 lbs/hr	CE7%O2
CO	401C2R2	4.38e+2	ppmv 7%O2	1.26e+2 lbs/hr	CE7%O2
CO	401C2R3	5.68e+2	ppmv 7%O2	1.43e+2 lbs/hr	CE7%O2
CO	401C2R4	5.97e+2	ppmv 7%O2	1.56e+2 lbs/hr	CE7%O2
CO	401C3R1	6.28e+2	ppmv 7%O2	1.76e+2 lbs/hr	CE
CO	401C3R2	6.49e+2	ppmv 7%O2	1.82e+2 lbs/hr	CE
CO	401C3R3	6.38e+2	ppmv 7%O2	2.76e+2 lbs/hr	CE
CO	401C4R1	6.27e+2	ppmv 7%O2	1.37e+2 lbs/hr	CE
CO	401C4R2	3.96e+2	ppmv 7%O2	7.78e+1 lbs/hr	CE
CO	401C4R3	4.18e+2	ppmv 7%O2	9.91e+1 lbs/hr	CE
CO	401C4R4	5.23e+2	ppmv 7%O2	1.03e+2 lbs/hr	CE

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ASH GROVE CEMENT COMPANY
 2. STATE: KS
 3. CITY: CHANUTE
 4. EP ID: 401 DEVICE NAME: KILN NO. 1

EPA ID: KSD031203318
 SYSTEM TYPE: CEMENT KILN

APC SYSTEM: ESP

REGION: 7

CO	401C5R1	5.76e+2	ppmv 7%O2	1.75e+2	lbs/hr	CE
CO	401C5R2	5.97e+2	ppmv 7%O2	1.82e+2	lbs/hr	CE
CO	401C5R3	6.73e+2	ppmv 7%O2	1.73e+2	lbs/hr	CE
CO	401C5R4	6.02e+2	ppmv 7%O2	1.55e+2	lbs/hr	CE
CO(MHRA)	401C1R1	1.16e+3	ppmv 7%O2	2.93e+2	lbs/hr	CE7%O2
CO(MHRA)	401C1R2	1.70e+3	ppmv 7%O2	4.42e+2	lbs/hr	CE7%O2
CO(MHRA)	401C1R3	1.73e+3	ppmv 7%O2	4.22e+2	lbs/hr	CE7%O2
CO(MHRA)	401C1R4	3.51e+3	ppmv 7%O2	8.88e+2	lbs/hr	CE7%O2
CO(MHRA)	401C2R1	6.37e+2	ppmv 7%O2	1.79e+2	lbs/hr	CE7%O2
CO(MHRA)	401C2R2	7.88e+2	ppmv 7%O2	2.27e+2	lbs/hr	CE7%O2
CO(MHRA)	401C2R3	9.32e+2	ppmv 7%O2	2.35e+2	lbs/hr	CE7%O2
CO(MHRA)	401C2R4	8.76e+2	ppmv 7%O2	2.29e+2	lbs/hr	CE7%O2
THC	401C1R1	6.75e+1	ppmv 7%O2	2.67e+1	lbs/hr	CE7%O2
THC	401C1R2	6.69e+1	ppmv 7%O2	2.73e+1	lbs/hr	CE7%O2
THC	401C1R3	7.02e+1	ppmv 7%O2	2.69e+1	lbs/hr	CE7%O2
THC	401C1R4	6.37e+1	ppmv 7%O2	2.53e+1	lbs/hr	CE7%O2
THC	401C2R1	4.37e+1	ppmv 7%O2	1.92e+1	lbs/hr	CE7%O2
THC	401C2R2	4.94e+1	ppmv 7%O2	2.24e+1	lbs/hr	CE7%O2
THC	401C2R3	4.57e+1	ppmv 7%O2	1.81e+1	lbs/hr	CE7%O2
THC	401C2R4	4.75e+1	ppmv 7%O2	1.96e+1	lbs/hr	CE7%O2
THC	401C3R1	5.90e+0	ppmv 7%O2	2.60e+0	lbs/hr	CE
THC	401C3R2	6.60e+0	ppmv 7%O2	2.92e+0	lbs/hr	CE
THC	401C3R3	1.04e+1	ppmv 7%O2	7.07e+0	lbs/hr	CE
THC	401C4R1	1.46e+1	ppmv 7%O2	5.01e+0	lbs/hr	CE
THC	401C4R2	9.50e+0	ppmv 7%O2	2.93e+0	lbs/hr	CE
THC	401C4R3	1.12e+1	ppmv 7%O2	4.17e+0	lbs/hr	CE
THC	401C4R4	1.43e+1	ppmv 7%O2	4.43e+0	lbs/hr	CE
THC	401C5R1	5.30e+0	ppmv 7%O2	2.53e+0	lbs/hr	CE
THC	401C5R2	6.30e+0	ppmv 7%O2	3.02e+0	lbs/hr	CE
THC	401C5R3	6.70e+0	ppmv 7%O2	2.71e+0	lbs/hr	CE
THC	401C5R4	9.40e+0	ppmv 7%O2	3.79e+0	lbs/hr	CE
THC(MHRA)	401C1R1	8.13e+1	ppmv 7%O2	3.22e+1	lbs/hr	CE7%O2
THC(MHRA)	401C1R2	7.08e+1	ppmv 7%O2	2.89e+1	lbs/hr	CE7%O2
THC(MHRA)	401C1R3	8.93e+1	ppmv 7%O2	3.42e+1	lbs/hr	CE7%O2
THC(MHRA)	401C1R4	9.51e+1	ppmv 7%O2	3.78e+1	lbs/hr	CE7%O2
THC(MHRA)	401C2R1	4.89e+1	ppmv 7%O2	2.15e+1	lbs/hr	CE7%O2
THC(MHRA)	401C2R2	5.44e+1	ppmv 7%O2	2.47e+1	lbs/hr	CE7%O2
THC(MHRA)	401C2R3	5.31e+1	ppmv 7%O2	2.10e+1	lbs/hr	CE7%O2
THC(MHRA)	401C2R4	5.22e+1	ppmv 7%O2	2.15e+1	lbs/hr	CE7%O2

7. Category: VOC

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
1,1,1-Trichloroethane	401C2R1	ND 2.91e+2 ng/dscm 7%O2	7.01e-5 lbs/hr	CC7%O2
1,1,1-Trichloroethane	401C2R2	ND 3.36e+2 ng/dscm 7%O2	8.33e-5 lbs/hr	CC7%O2
1,1,1-Trichloroethane	401C2R3	ND 3.48e+2 ng/dscm 7%O2	7.54e-5 lbs/hr	CC7%O2
1,1,1-Trichloroethane	401C2R4	ND 5.23e+2 ng/dscm 7%O2	1.18e-4 lbs/hr	CC7%O2
1,1,1-Trichloroethane	401C3R1	ND 4.91e+2 ng/dscm 7%O2	1.19e-4 lbs/hr	CE
1,1,1-Trichloroethane	401C3R2	ND 4.75e+2 ng/dscm 7%O2	1.15e-4 lbs/hr	CE
1,1,1-Trichloroethane	401C3R3	ND 6.33e+2 ng/dscm 7%O2	2.36e-4 lbs/hr	CE
1,1,1-Trichloroethane	401C4R1	3 7.39e+2 ng/dscm 7%O2	1.39e-4 lbs/hr	CE
1,1,1-Trichloroethane	401C4R2	3 1.25e+3 ng/dscm 7%O2	2.11e-4 lbs/hr	CE
1,1,1-Trichloroethane	401C4R3	3 9.09e+2 ng/dscm 7%O2	1.85e-4 lbs/hr	CE
1,1,1-Trichloroethane	401C4R4	3 3.63e+2 ng/dscm 7%O2	6.17e-5 lbs/hr	CE
1,1,1-Trichloroethane	401C5R1	ND 4.58e+2 ng/dscm 7%O2	1.20e-4 lbs/hr	CE
1,1,1-Trichloroethane	401C5R2	ND 4.72e+2 ng/dscm 7%O2	1.24e-4 lbs/hr	CE
1,1,1-Trichloroethane	401C5R3	ND 5.28e+2 ng/dscm 7%O2	1.17e-4 lbs/hr	CE
1,1,1-Trichloroethane	401C5R4	ND 5.36e+2 ng/dscm 7%O2	1.19e-4 lbs/hr	CE
1,1,2,2-Tetrachloroethane	401C3R1	ND 7.33e+2 ng/dscm 7%O2	1.77e-4 lbs/hr	CE
1,1,2,2-Tetrachloroethane	401C3R2	ND 7.42e+2 ng/dscm 7%O2	1.80e-4 lbs/hr	CE
1,1,2,2-Tetrachloroethane	401C3R3	ND 1.02e+3 ng/dscm 7%O2	3.80e-4 lbs/hr	CE
1,1,2,2-Tetrachloroethane	401C4R1	ND 7.26e+2 ng/dscm 7%O2	1.37e-4 lbs/hr	CE

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ASH GROVE CEMENT COMPANY
 2. STATE: KS
 3. CITY: CHANUTE
 4. EP ID: 401 DEVICE NAME: KILN NO. 1

EPA KSD031203318
 SYSTEM TYPE: CEMENT KILN

APC SYSTEM: ESP

REGION: 7

1,1,2,2-Tetrachloroethane	401C4R2	ND	7.27e+2	ng/dscm	7%O2	1.23e-4	lbs/hr	CE
1,1,2,2-Tetrachloroethane	401C4R3	3	2.99e+2	ng/dscm	7%O2	6.10e-5	lbs/hr	CE
1,1,2,2-Tetrachloroethane	401C4R4	ND	4.83e+2	ng/dscm	7%O2	8.21e-5	lbs/hr	CE
1,1,2,2-Tetrachloroethane	401C5R1	ND	4.77e+2	ng/dscm	7%O2	1.25e-4	lbs/hr	CE
1,1,2,2-Tetrachloroethane	401C5R2	ND	4.01e+2	ng/dscm	7%O2	1.05e-4	lbs/hr	CE
1,1,2,2-Tetrachloroethane	401C5R3	ND	4.75e+2	ng/dscm	7%O2	1.05e-4	lbs/hr	CE
1,1,2,2-Tetrachloroethane	401C5R4	ND	5.62e+2	ng/dscm	7%O2	1.24e-4	lbs/hr	CE
1,1,2-Trichloroethane	401C3R1	ND	6.01e+2	ng/dscm	7%O2	1.45e-4	lbs/hr	CE
1,1,2-Trichloroethane	401C3R2	ND	6.05e+2	ng/dscm	7%O2	1.46e-4	lbs/hr	CE
1,1,2-Trichloroethane	401C3R3	ND	8.33e+2	ng/dscm	7%O2	3.10e-4	lbs/hr	CE
1,1,2-Trichloroethane	401C4R1	ND	6.99e+2	ng/dscm	7%O2	1.31e-4	lbs/hr	CE
1,1,2-Trichloroethane	401C4R2	ND	7.47e+2	ng/dscm	7%O2	1.26e-4	lbs/hr	CE
1,1,2-Trichloroethane	401C4R3	ND	2.60e+2	ng/dscm	7%O2	5.30e-5	lbs/hr	CE
1,1,2-Trichloroethane	401C4R4	ND	2.77e+2	ng/dscm	7%O2	4.71e-5	lbs/hr	CE
1,1,2-Trichloroethane	401C5R1	ND	5.11e+2	ng/dscm	7%O2	1.33e-4	lbs/hr	CE
1,1,2-Trichloroethane	401C5R2	ND	5.51e+2	ng/dscm	7%O2	1.45e-4	lbs/hr	CE
1,1,2-Trichloroethane	401C5R3	ND	6.12e+2	ng/dscm	7%O2	1.36e-4	lbs/hr	CE
1,1,2-Trichloroethane	401C5R4	ND	6.83e+2	ng/dscm	7%O2	1.51e-4	lbs/hr	CE
1,1-Dichloroethane	401C3R1	ND	3.64e+2	ng/dscm	7%O2	8.79e-5	lbs/hr	CE
1,1-Dichloroethane	401C3R2	ND	3.59e+2	ng/dscm	7%O2	8.69e-5	lbs/hr	CE
1,1-Dichloroethane	401C3R3	ND	4.53e+2	ng/dscm	7%O2	1.69e-4	lbs/hr	CE
1,1-Dichloroethane	401C4R1	ND	3.67e+2	ng/dscm	7%O2	6.90e-5	lbs/hr	CE
1,1-Dichloroethane	401C4R2	ND	4.27e+2	ng/dscm	7%O2	7.22e-5	lbs/hr	CE
1,1-Dichloroethane	401C4R3	ND	1.73e+2	ng/dscm	7%O2	3.53e-5	lbs/hr	CE
1,1-Dichloroethane	401C4R4	ND	2.10e+2	ng/dscm	7%O2	3.57e-5	lbs/hr	CE
1,1-Dichloroethane	401C5R1	ND	3.21e+2	ng/dscm	7%O2	8.38e-5	lbs/hr	CE
1,1-Dichloroethane	401C5R2	ND	3.30e+2	ng/dscm	7%O2	8.68e-5	lbs/hr	CE
1,1-Dichloroethane	401C5R3	ND	3.70e+2	ng/dscm	7%O2	8.21e-5	lbs/hr	CE
1,1-Dichloroethane	401C5R4	ND	3.71e+2	ng/dscm	7%O2	8.20e-5	lbs/hr	CE
1,1-Dichloroethane	401C3R1	3	4.51e+2	ng/dscm	7%O2	1.09e-4	lbs/hr	CE
1,1-Dichloroethane	401C3R2	ND	4.50e+2	ng/dscm	7%O2	1.09e-4	lbs/hr	CE
1,1-Dichloroethane	401C3R3	ND	5.80e+2	ng/dscm	7%O2	2.16e-4	lbs/hr	CE
1,1-Dichloroethane	401C4R1	ND	5.29e+2	ng/dscm	7%O2	9.95e-5	lbs/hr	CE
1,1-Dichloroethane	401C4R2	ND	5.33e+2	ng/dscm	7%O2	9.01e-5	lbs/hr	CE
1,1-Dichloroethane	401C4R3	ND	1.97e+2	ng/dscm	7%O2	4.02e-5	lbs/hr	CE
1,1-Dichloroethane	401C4R4	ND	2.39e+2	ng/dscm	7%O2	4.06e-5	lbs/hr	CE
1,1-Dichloroethane	401C5R1	ND	7.02e+2	ng/dscm	7%O2	1.83e-4	lbs/hr	CE
1,1-Dichloroethane	401C5R2	ND	6.44e+2	ng/dscm	7%O2	1.69e-4	lbs/hr	CE
1,1-Dichloroethane	401C5R3	ND	7.22e+2	ng/dscm	7%O2	1.60e-4	lbs/hr	CE
1,1-Dichloroethane	401C5R4	ND	7.26e+2	ng/dscm	7%O2	1.61e-4	lbs/hr	CE
1,2-Dichloroethane	401C3R1	ND	4.74e+2	ng/dscm	7%O2	1.15e-4	lbs/hr	CE
1,2-Dichloroethane	401C3R2	ND	4.67e+2	ng/dscm	7%O2	1.13e-4	lbs/hr	CE
1,2-Dichloroethane	401C3R3	ND	6.01e+2	ng/dscm	7%O2	2.24e-4	lbs/hr	CE
1,2-Dichloroethane	401C4R1	ND	4.90e+2	ng/dscm	7%O2	9.22e-5	lbs/hr	CE
1,2-Dichloroethane	401C4R2	ND	5.62e+2	ng/dscm	7%O2	9.50e-5	lbs/hr	CE
1,2-Dichloroethane	401C4R3	ND	1.97e+2	ng/dscm	7%O2	4.02e-5	lbs/hr	CE
1,2-Dichloroethane	401C4R4	4	2.89e+4	ng/dscm	7%O2	4.91e-3	lbs/hr	CE
1,2-Dichloroethane	401C5R1	ND	4.12e+2	ng/dscm	7%O2	1.08e-4	lbs/hr	CE
1,2-Dichloroethane	401C5R2	ND	4.20e+2	ng/dscm	7%O2	1.10e-4	lbs/hr	CE
1,2-Dichloroethane	401C5R3	ND	4.75e+2	ng/dscm	7%O2	1.05e-4	lbs/hr	CE
1,2-Dichloroethane	401C5R4	ND	4.75e+2	ng/dscm	7%O2	1.05e-4	lbs/hr	CE
1,2-Dichloropropane	401C3R1	ND	4.40e+2	ng/dscm	7%O2	1.06e-4	lbs/hr	CE
1,2-Dichloropropane	401C3R2	ND	4.25e+2	ng/dscm	7%O2	1.03e-4	lbs/hr	CE
1,2-Dichloropropane	401C3R3	ND	5.69e+2	ng/dscm	7%O2	2.12e-4	lbs/hr	CE
1,2-Dichloropropane	401C4R1	ND	4.46e+2	ng/dscm	7%O2	8.39e-5	lbs/hr	CE
1,2-Dichloropropane	401C4R2	ND	5.14e+2	ng/dscm	7%O2	8.69e-5	lbs/hr	CE
1,2-Dichloropropane	401C4R3	ND	1.81e+2	ng/dscm	7%O2	3.69e-5	lbs/hr	CE
1,2-Dichloropropane	401C4R4	ND	2.20e+2	ng/dscm	7%O2	3.74e-5	lbs/hr	CE
1,2-Dichloropropane	401C5R1	ND	3.82e+2	ng/dscm	7%O2	9.97e-5	lbs/hr	CE
1,2-Dichloropropane	401C5R2	ND	3.90e+2	ng/dscm	7%O2	1.03e-4	lbs/hr	CE
1,2-Dichloropropane	401C5R3	ND	4.40e+2	ng/dscm	7%O2	9.76e-5	lbs/hr	CE
1,2-Dichloropropane	401C5R4	ND	4.41e+2	ng/dscm	7%O2	9.75e-5	lbs/hr	CE

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ASH GROVE CEMENT COMPANY
 2. STATE: KS
 3. CITY: CHANUTE
 4. EP ID: 401 DEVICE NAME: KILN NO. 1

EPA ID: KSD031203318
 SYSTEM TYPE: CEMENT KILN

APC SYSTEM: ESP

REGION: 7

1,4-Dichloro-2-butene	401C3R1	ND	2.85e+3	ng/dscm	7%O2	6.88e-4	lbs/hr	CE
1,4-Dichloro-2-butene	401C3R2	ND	2.90e+3	ng/dscm	7%O2	7.02e-4	lbs/hr	CE
1,4-Dichloro-2-butene	401C3R3	ND	3.76e+3	ng/dscm	7%O2	1.40e-3	lbs/hr	CE
1,4-Dichloro-2-butene	401C4R1	ND	3.00e+3	ng/dscm	7%O2	5.64e-4	lbs/hr	CE
1,4-Dichloro-2-butene	401C4R2	ND	2.54e+3	ng/dscm	7%O2	4.29e-4	lbs/hr	CE
1,4-Dichloro-2-butene	401C4R3	ND	1.39e+3	ng/dscm	7%O2	2.84e-4	lbs/hr	CE
1,4-Dichloro-2-butene	401C4R4	ND	2.13e+3	ng/dscm	7%O2	3.62e-4	lbs/hr	CE
1,4-Dichloro-2-butene	401C5R1	ND	1.59e+3	ng/dscm	7%O2	4.15e-4	lbs/hr	CE
1,4-Dichloro-2-butene	401C5R2	ND	1.63e+3	ng/dscm	7%O2	4.29e-4	lbs/hr	CE
1,4-Dichloro-2-butene	401C5R3	ND	1.81e+3	ng/dscm	7%O2	4.02e-4	lbs/hr	CE
1,4-Dichloro-2-butene	401C5R4	ND	2.01e+3	ng/dscm	7%O2	4.44e-4	lbs/hr	CE
2-Hexanone	401C3R1	ND	1.37e+3	ng/dscm	7%O2	3.31e-4	lbs/hr	CE
2-Hexanone	401C3R2	ND	1.48e+3	ng/dscm	7%O2	3.58e-4	lbs/hr	CE
2-Hexanone	401C3R3	ND	1.99e+3	ng/dscm	7%O2	7.41e-4	lbs/hr	CE
2-Hexanone	401C4R1	ND	1.23e+3	ng/dscm	7%O2	2.31e-4	lbs/hr	CE
2-Hexanone	401C4R2	ND	1.37e+3	ng/dscm	7%O2	2.32e-4	lbs/hr	CE
2-Hexanone	401C4R3	ND	6.65e+2	ng/dscm	7%O2	1.36e-4	lbs/hr	CE
2-Hexanone	401C4R4	ND	1.03e+3	ng/dscm	7%O2	1.75e-4	lbs/hr	CE
2-Hexanone	401C5R1	4	1.81e+4	ng/dscm	7%O2	4.71e-3	lbs/hr	CE
2-Hexanone	401C5R2	ND	9.59e+2	ng/dscm	7%O2	2.52e-4	lbs/hr	CE
2-Hexanone	401C5R3	ND	1.12e+3	ng/dscm	7%O2	2.49e-4	lbs/hr	CE
2-Hexanone	401C5R4	ND	1.84e+3	ng/dscm	7%O2	4.07e-4	lbs/hr	CE
Acetone	401C2R1		1.02e+5	ng/dscm	7%O2	2.46e-2	lbs/hr	CE7%O2
Acetone	401C2R2		8.71e+4	ng/dscm	7%O2	2.16e-2	lbs/hr	CE7%O2
Acetone	401C2R3		4.59e+4	ng/dscm	7%O2	9.94e-3	lbs/hr	CE7%O2
Acetone	401C2R4		9.47e+4	ng/dscm	7%O2	2.13e-2	lbs/hr	CE7%O2
Acetone	401C3R1	ND	6.81e+4	ng/dscm	7%O2	1.65e-2	lbs/hr	CE
Acetone	401C3R2	4	6.88e+4	ng/dscm	7%O2	1.67e-2	lbs/hr	CE
Acetone	401C3R3	5	4.60e+5	ng/dscm	7%O2	1.71e-1	lbs/hr	CE
Acetone	401C4R1		4.06e+5	ng/dscm	7%O2	7.64e-2	lbs/hr	CE
Acetone	401C4R2	6	3.52e+5	ng/dscm	7%O2	5.95e-2	lbs/hr	CE
Acetone	401C4R3	5	2.54e+5	ng/dscm	7%O2	5.18e-2	lbs/hr	CE
Acetone	401C4R4		2.09e+5	ng/dscm	7%O2	3.55e-2	lbs/hr	CE
Acetone	401C5R1	6	3.76e+5	ng/dscm	7%O2	9.80e-2	lbs/hr	CE
Acetone	401C5R2	6	1.08e+5	ng/dscm	7%O2	2.85e-2	lbs/hr	CE
Acetone	401C5R3	6	2.51e+5	ng/dscm	7%O2	5.57e-2	lbs/hr	CE
Acetone	401C5R4	6	2.03e+5	ng/dscm	7%O2	4.50e-2	lbs/hr	CE
Acetonitrile	401C3R1	4	6.44e+4	ng/dscm	7%O2	1.56e-2	lbs/hr	CE
Acetonitrile	401C3R2	4	1.81e+4	ng/dscm	7%O2	4.38e-3	lbs/hr	CE
Acetonitrile	401C3R3	5	4.86e+4	ng/dscm	7%O2	1.81e-2	lbs/hr	CE
Acetonitrile	401C4R1	5	4.59e+4	ng/dscm	7%O2	8.63e-3	lbs/hr	CE
Acetonitrile	401C4R2	4	8.45e+4	ng/dscm	7%O2	1.43e-2	lbs/hr	CE
Acetonitrile	401C4R3	5	4.13e+4	ng/dscm	7%O2	8.43e-3	lbs/hr	CE
Acetonitrile	401C4R4	6	6.81e+4	ng/dscm	7%O2	1.16e-2	lbs/hr	CE
Acetonitrile	401C5R1	4	7.02e+4	ng/dscm	7%O2	1.83e-2	lbs/hr	CE
Acetonitrile	401C5R2	6	5.94e+4	ng/dscm	7%O2	1.56e-2	lbs/hr	CE
Acetonitrile	401C5R3	5	7.61e+4	ng/dscm	7%O2	1.69e-2	lbs/hr	CE
Acetonitrile	401C5R4		7.74e+4	ng/dscm	7%O2	1.71e-2	lbs/hr	CE
Allyl chloride	401C3R1	5	1.49e+4	ng/dscm	7%O2	3.60e-3	lbs/hr	CE
Allyl chloride	401C3R2	3	1.53e+4	ng/dscm	7%O2	3.70e-3	lbs/hr	CE
Allyl chloride	401C3R3	4	1.80e+4	ng/dscm	7%O2	6.70e-3	lbs/hr	CE
Allyl chloride	401C4R1	3	1.24e+4	ng/dscm	7%O2	2.33e-3	lbs/hr	CE
Allyl chloride	401C4R2	5	1.40e+4	ng/dscm	7%O2	2.37e-3	lbs/hr	CE
Allyl chloride	401C4R3	5	2.22e+4	ng/dscm	7%O2	4.53e-3	lbs/hr	CE
Allyl chloride	401C4R4	4	2.67e+4	ng/dscm	7%O2	4.54e-3	lbs/hr	CE
Allyl chloride	401C5R1	5	1.36e+4	ng/dscm	7%O2	3.55e-3	lbs/hr	CE
Allyl chloride	401C5R2	3	1.40e+4	ng/dscm	7%O2	3.68e-3	lbs/hr	CE
Allyl chloride	401C5R3	5	1.47e+4	ng/dscm	7%O2	3.25e-3	lbs/hr	CE
Allyl chloride	401C5R4	3	1.61e+4	ng/dscm	7%O2	3.55e-3	lbs/hr	CE
Benzene	401C2R1		4.94e+5	ng/dscm	7%O2	1.19e-1	lbs/hr	CE7%O2
Benzene	401C2R2		5.57e+5	ng/dscm	7%O2	1.38e-1	lbs/hr	CE7%O2
Benzene	401C2R3		2.41e+5	ng/dscm	7%O2	5.22e-2	lbs/hr	CE7%O2
Benzene	401C2R4		6.41e+5	ng/dscm	7%O2	1.45e-1	lbs/hr	CE7%O2

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ASH GROVE CEMENT COMPANY
 2. STATE: KS
 3. CITY: CHANUTE
 4. EP ID: 401 DEVICE NAME: KILN NO. 1

EPA ID: KSD031203318
 SYSTEM TYPE: CEMENT KILN

APC SYSTEM: ESP

REGION: 7

Benzene	401C3R1	3	4.00e+5	ng/dscm	7%O2	9.66e-2	lbs/hr	CE
Benzene	401C3R2	3	4.66e+5	ng/dscm	7%O2	1.13e-1	lbs/hr	CE
Benzene	401C3R3	3	7.40e+5	ng/dscm	7%O2	2.75e-1	lbs/hr	CE
Benzene	401C4R1	3	3.60e+5	ng/dscm	7%O2	6.77e-2	lbs/hr	CE
Benzene	401C4R2	5	4.45e+5	ng/dscm	7%O2	7.52e-2	lbs/hr	CE
Benzene	401C4R3	2	4.80e+5	ng/dscm	7%O2	9.79e-2	lbs/hr	CE
Benzene	401C4R4	3	4.09e+5	ng/dscm	7%O2	6.95e-2	lbs/hr	CE
Benzene	401C5R1	4	2.30e+5	ng/dscm	7%O2	6.01e-2	lbs/hr	CE
Benzene	401C5R2	3	2.25e+5	ng/dscm	7%O2	5.91e-2	lbs/hr	CE
Benzene	401C5R3	3	2.65e+5	ng/dscm	7%O2	5.89e-2	lbs/hr	CE
Benzene	401C5R4	3	2.91e+5	ng/dscm	7%O2	6.43e-2	lbs/hr	CE
Bromodichloromethane	401C3R1	3	2.35e+3	ng/dscm	7%O2	5.68e-4	lbs/hr	CE
Bromodichloromethane	401C3R2	3	2.50e+3	ng/dscm	7%O2	6.05e-4	lbs/hr	CE
Bromodichloromethane	401C3R3	3	3.47e+3	ng/dscm	7%O2	1.29e-3	lbs/hr	CE
Bromodichloromethane	401C4R1	ND	4.81e+2	ng/dscm	7%O2	9.05e-5	lbs/hr	CE
Bromodichloromethane	401C4R2	3	1.00e+3	ng/dscm	7%O2	1.69e-4	lbs/hr	CE
Bromodichloromethane	401C4R3	ND	1.81e+2	ng/dscm	7%O2	3.69e-5	lbs/hr	CE
Bromodichloromethane	401C4R4	ND	2.20e+2	ng/dscm	7%O2	3.74e-5	lbs/hr	CE
Bromodichloromethane	401C5R1	3	9.16e+2	ng/dscm	7%O2	2.39e-4	lbs/hr	CE
Bromodichloromethane	401C5R2	3	1.46e+3	ng/dscm	7%O2	3.85e-4	lbs/hr	CE
Bromodichloromethane	401C5R3	3	2.73e+3	ng/dscm	7%O2	6.05e-4	lbs/hr	CE
Bromodichloromethane	401C5R4	3	1.79e+3	ng/dscm	7%O2	3.95e-4	lbs/hr	CE
Bromoethane	401C2R1		2.56e+4	ng/dscm	7%O2	6.19e-3	lbs/hr	CE7%O2
Bromoethane	401C2R2		2.24e+4	ng/dscm	7%O2	5.57e-3	lbs/hr	CE7%O2
Bromoethane	401C2R3		1.34e+4	ng/dscm	7%O2	2.89e-3	lbs/hr	CE7%O2
Bromoethane	401C2R4		2.43e+4	ng/dscm	7%O2	5.48e-3	lbs/hr	CE7%O2
Bromoethane	401C3R1	3	8.47e+2	ng/dscm	7%O2	2.05e-4	lbs/hr	CE
Bromoethane	401C3R2	3	8.88e+2	ng/dscm	7%O2	2.15e-4	lbs/hr	CE
Bromoethane	401C3R3	3	1.22e+3	ng/dscm	7%O2	4.54e-4	lbs/hr	CE
Bromoethane	401C4R1	ND	8.66e+2	ng/dscm	7%O2	1.63e-4	lbs/hr	CE
Bromoethane	401C4R2	ND	9.02e+2	ng/dscm	7%O2	1.53e-4	lbs/hr	CE
Bromoethane	401C4R3	3	1.97e+2	ng/dscm	7%O2	4.02e-5	lbs/hr	CE
Bromoethane	401C4R4	3	9.41e+2	ng/dscm	7%O2	1.60e-4	lbs/hr	CE
Bromoethane	401C5R1	ND	6.72e+2	ng/dscm	7%O2	1.75e-4	lbs/hr	CE
Bromoethane	401C5R2	ND	6.97e+2	ng/dscm	7%O2	1.83e-4	lbs/hr	CE
Bromoethane	401C5R3	ND	7.39e+2	ng/dscm	7%O2	1.64e-4	lbs/hr	CE
Bromoethane	401C5R4	ND	7.99e+2	ng/dscm	7%O2	1.77e-4	lbs/hr	CE
Bromoform	401C3R1	3	2.43e+3	ng/dscm	7%O2	5.87e-4	lbs/hr	CE
Bromoform	401C3R2	3	4.15e+3	ng/dscm	7%O2	1.00e-3	lbs/hr	CE
Bromoform	401C3R3	3	1.44e+3	ng/dscm	7%O2	5.36e-4	lbs/hr	CE
Bromoform	401C4R1	ND	9.79e+2	ng/dscm	7%O2	1.84e-4	lbs/hr	CE
Bromoform	401C4R2	3	1.31e+3	ng/dscm	7%O2	2.22e-4	lbs/hr	CE
Bromoform	401C4R3	3	4.33e+2	ng/dscm	7%O2	8.83e-5	lbs/hr	CE
Bromoform	401C4R4	ND	5.02e+2	ng/dscm	7%O2	8.53e-5	lbs/hr	CE
Bromoform	401C5R1	ND	8.24e+2	ng/dscm	7%O2	2.15e-4	lbs/hr	CE
Bromoform	401C5R2	ND	8.39e+2	ng/dscm	7%O2	2.21e-4	lbs/hr	CE
Bromoform	401C5R3	ND	9.51e+2	ng/dscm	7%O2	2.11e-4	lbs/hr	CE
Bromoform	401C5R4	ND	9.94e+2	ng/dscm	7%O2	2.20e-4	lbs/hr	CE
Bromomethane	401C3R1	3	1.79e+4	ng/dscm	7%O2	4.32e-3	lbs/hr	CE
Bromomethane	401C3R2	6	1.71e+4	ng/dscm	7%O2	4.14e-3	lbs/hr	CE
Bromomethane	401C3R3	5	1.85e+4	ng/dscm	7%O2	6.89e-3	lbs/hr	CE
Bromomethane	401C4R1	5	1.16e+4	ng/dscm	7%O2	2.18e-3	lbs/hr	CE
Bromomethane	401C4R2	5	5.55e+5	ng/dscm	7%O2	9.38e-2	lbs/hr	CE
Bromomethane	401C4R3	2	2.17e+4	ng/dscm	7%O2	4.43e-3	lbs/hr	CE
Bromomethane	401C4R4	5	9.21e+3	ng/dscm	7%O2	1.56e-3	lbs/hr	CE
Bromomethane	401C5R1	3	6.32e+3	ng/dscm	7%O2	1.65e-3	lbs/hr	CE
Bromomethane	401C5R2	5	7.29e+3	ng/dscm	7%O2	1.92e-3	lbs/hr	CE
Bromomethane	401C5R3	3	5.20e+3	ng/dscm	7%O2	1.15e-3	lbs/hr	CE
Bromomethane	401C5R4	3	5.66e+3	ng/dscm	7%O2	1.25e-3	lbs/hr	CE
Carbon disulfide	401C2R1		1.23e+5	ng/dscm	7%O2	2.96e-2	lbs/hr	CE7%O2
Carbon disulfide	401C2R2		1.94e+5	ng/dscm	7%O2	4.83e-2	lbs/hr	CE7%O2
Carbon disulfide	401C2R3		3.49e+4	ng/dscm	7%O2	7.56e-3	lbs/hr	CE7%O2
Carbon disulfide	401C2R4		6.22e+4	ng/dscm	7%O2	1.40e-2	lbs/hr	CE7%O2

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ASH GROVE CEMENT COMPANY
 2. STATE: KS
 3. CITY: CHANUTE
 4. EP ID: 401 DEVICE NAME: KILN NO. 1

EPA KSD031203318
 SYSTEM TYPE: CEMENT KILN

APC SYSTEM: ESP

REGION: 7

Carbon disulfide	401C3R1	5	1.54e+3	ng/dscm	7%O2	3.72e-4	lbs/hr	CE
Carbon disulfide	401C3R2	5	1.97e+5	ng/dscm	7%O2	4.77e-2	lbs/hr	CE
Carbon disulfide	401C3R3	5	1.81e+5	ng/dscm	7%O2	6.74e-2	lbs/hr	CE
Carbon disulfide	401C4R1	5	2.38e+5	ng/dscm	7%O2	4.48e-2	lbs/hr	CE
Carbon disulfide	401C4R2	5	2.14e+5	ng/dscm	7%O2	3.62e-2	lbs/hr	CE
Carbon disulfide	401C4R3	5	1.69e+5	ng/dscm	7%O2	3.45e-2	lbs/hr	CE
Carbon disulfide	401C4R4	3	2.56e+5	ng/dscm	7%O2	4.35e-2	lbs/hr	CE
Carbon disulfide	401C5R1	5	1.75e+5	ng/dscm	7%O2	4.56e-2	lbs/hr	CE
Carbon disulfide	401C5R2	3	1.47e+5	ng/dscm	7%O2	3.86e-2	lbs/hr	CE
Carbon disulfide	401C5R3	5	1.62e+5	ng/dscm	7%O2	3.59e-2	lbs/hr	CE
Carbon disulfide	401C5R4	3	2.04e+5	ng/dscm	7%O2	4.52e-2	lbs/hr	CE
Carbon Tetrachloride	401C3R1	ND	6.27e+2	ng/dscm	7%O2	1.51e-4	lbs/hr	CE
Carbon Tetrachloride	401C3R2	ND	6.09e+2	ng/dscm	7%O2	1.47e-4	lbs/hr	CE
Carbon Tetrachloride	401C3R3	ND	8.12e+2	ng/dscm	7%O2	3.02e-4	lbs/hr	CE
Carbon Tetrachloride	401C4R1	ND	6.38e+2	ng/dscm	7%O2	1.20e-4	lbs/hr	CE
Carbon Tetrachloride	401C4R2	3	9.31e+2	ng/dscm	7%O2	1.57e-4	lbs/hr	CE
Carbon Tetrachloride	401C4R3	3	3.78e+2	ng/dscm	7%O2	7.71e-5	lbs/hr	CE
Carbon Tetrachloride	401C4R4	3	2.91e+2	ng/dscm	7%O2	4.94e-5	lbs/hr	CE
Carbon Tetrachloride	401C5R1	ND	5.76e+2	ng/dscm	7%O2	1.50e-4	lbs/hr	CE
Carbon Tetrachloride	401C5R2	3	5.77e+2	ng/dscm	7%O2	1.52e-4	lbs/hr	CE
Carbon Tetrachloride	401C5R3	ND	5.99e+2	ng/dscm	7%O2	1.33e-4	lbs/hr	CE
Carbon Tetrachloride	401C5R4	3	6.48e+2	ng/dscm	7%O2	1.43e-4	lbs/hr	CE
Chlorobenzene	401C2R1		2.91e+4	ng/dscm	7%O2	7.02e-3	lbs/hr	CE7%O2
Chlorobenzene	401C2R2		3.47e+4	ng/dscm	7%O2	8.63e-3	lbs/hr	CE7%O2
Chlorobenzene	401C2R3		9.99e+3	ng/dscm	7%O2	2.17e-3	lbs/hr	CE7%O2
Chlorobenzene	401C2R4		1.69e+4	ng/dscm	7%O2	3.82e-3	lbs/hr	CE7%O2
Chlorobenzene	401C3R1	6	1.63e+4	ng/dscm	7%O2	3.94e-3	lbs/hr	CE
Chlorobenzene	401C3R2	4	1.74e+4	ng/dscm	7%O2	4.21e-3	lbs/hr	CE
Chlorobenzene	401C3R3	5	2.46e+4	ng/dscm	7%O2	9.16e-3	lbs/hr	CE
Chlorobenzene	401C4R1	4	1.29e+4	ng/dscm	7%O2	2.43e-3	lbs/hr	CE
Chlorobenzene	401C4R2	5	1.87e+4	ng/dscm	7%O2	3.16e-3	lbs/hr	CE
Chlorobenzene	401C4R3	4	1.34e+4	ng/dscm	7%O2	2.73e-3	lbs/hr	CE
Chlorobenzene	401C4R4	5	1.96e+4	ng/dscm	7%O2	3.33e-3	lbs/hr	CE
Chlorobenzene	401C5R1	4	1.81e+4	ng/dscm	7%O2	4.71e-3	lbs/hr	CE
Chlorobenzene	401C5R2	4	1.86e+4	ng/dscm	7%O2	4.90e-3	lbs/hr	CE
Chlorobenzene	401C5R3	4	2.35e+4	ng/dscm	7%O2	5.22e-3	lbs/hr	CE
Chlorobenzene	401C5R4	4	1.82e+4	ng/dscm	7%O2	4.02e-3	lbs/hr	CE
Chloroethane	401C3R1	3	2.13e+3	ng/dscm	7%O2	5.15e-4	lbs/hr	CE
Chloroethane	401C3R2	3	2.82e+3	ng/dscm	7%O2	6.82e-4	lbs/hr	CE
Chloroethane	401C3R3	3	5.77e+3	ng/dscm	7%O2	2.15e-3	lbs/hr	CE
Chloroethane	401C4R1	3	1.56e+3	ng/dscm	7%O2	2.93e-4	lbs/hr	CE
Chloroethane	401C4R2	6	4.00e+3	ng/dscm	7%O2	6.76e-4	lbs/hr	CE
Chloroethane	401C4R3	5	4.25e+3	ng/dscm	7%O2	8.67e-4	lbs/hr	CE
Chloroethane	401C4R4	5	2.09e+5	ng/dscm	7%O2	3.55e-2	lbs/hr	CE
Chloroethane	401C5R1	3	1.42e+3	ng/dscm	7%O2	3.70e-4	lbs/hr	CE
Chloroethane	401C5R2	3	1.22e+3	ng/dscm	7%O2	3.20e-4	lbs/hr	CE
Chloroethane	401C5R3	ND	1.07e+3	ng/dscm	7%O2	2.37e-4	lbs/hr	CE
Chloroethane	401C5R4	ND	1.09e+3	ng/dscm	7%O2	2.41e-4	lbs/hr	CE
Chloroform	401C3R1	2	4.95e+3	ng/dscm	7%O2	1.20e-3	lbs/hr	CE
Chloroform	401C3R2	3	3.37e+3	ng/dscm	7%O2	8.16e-4	lbs/hr	CE
Chloroform	401C3R3	2	5.17e+3	ng/dscm	7%O2	1.92e-3	lbs/hr	CE
Chloroform	401C4R1	2	1.64e+3	ng/dscm	7%O2	3.08e-4	lbs/hr	CE
Chloroform	401C4R2	3	1.78e+3	ng/dscm	7%O2	3.01e-4	lbs/hr	CE
Chloroform	401C4R3	3	1.62e+3	ng/dscm	7%O2	3.31e-4	lbs/hr	CE
Chloroform	401C4R4	3	2.14e+3	ng/dscm	7%O2	3.64e-4	lbs/hr	CE
Chloroform	401C5R1	3	3.45e+3	ng/dscm	7%O2	9.02e-4	lbs/hr	CE
Chloroform	401C5R2	6	3.87e+3	ng/dscm	7%O2	1.02e-3	lbs/hr	CE
Chloroform	401C5R3	2	3.40e+3	ng/dscm	7%O2	7.54e-4	lbs/hr	CE
Chloroform	401C5R4	3	4.50e+3	ng/dscm	7%O2	9.95e-4	lbs/hr	CE
Chloromethane	401C2R1		5.86e+5	ng/dscm	7%O2	1.42e-1	lbs/hr	CE7%O2
Chloromethane	401C2R2		8.43e+5	ng/dscm	7%O2	2.09e-1	lbs/hr	CE7%O2
Chloromethane	401C2R3		2.00e+5	ng/dscm	7%O2	4.33e-2	lbs/hr	CE7%O2
Chloromethane	401C2R4		6.35e+5	ng/dscm	7%O2	1.43e-1	lbs/hr	CE7%O2

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ASH GROVE CEMENT COMPANY
 2. STATE: KS
 3. CITY: CHANUTE
 4. EP ID: 401 DEVICE NAME: KILN NO. 1

EPA ID: KSD031203318
 SYSTEM TYPE: CEMENT KILN

APC SYSTEM: ESP

REGION: 7

Chloromethane	401C3R1	3	1.94e+5	ng/dscm	7%O2	4.69e-2	lbs/hr	CE
Chloromethane	401C3R2	5	1.43e+4	ng/dscm	7%O2	3.46e-3	lbs/hr	CE
Chloromethane	401C3R3	5	1.64e+5	ng/dscm	7%O2	6.11e-2	lbs/hr	CE
Chloromethane	401C4R1	5	1.28e+5	ng/dscm	7%O2	2.41e-2	lbs/hr	CE
Chloromethane	401C4R2	3	2.42e+5	ng/dscm	7%O2	4.09e-2	lbs/hr	CE
Chloromethane	401C4R3	ND	1.72e+5	ng/dscm	7%O2	3.51e-2	lbs/hr	CE
Chloromethane	401C4R4	6	2.86e+5	ng/dscm	7%O2	4.86e-2	lbs/hr	CE
Chloromethane	401C5R1	3	1.19e+5	ng/dscm	7%O2	3.09e-2	lbs/hr	CE
Chloromethane	401C5R2	3	1.32e+5	ng/dscm	7%O2	3.48e-2	lbs/hr	CE
Chloromethane	401C5R3	3	9.65e+4	ng/dscm	7%O2	2.14e-2	lbs/hr	CE
Chloromethane	401C5R4	5	1.16e+5	ng/dscm	7%O2	2.57e-2	lbs/hr	CE
cis-1,2-Dichloroethene	401C3R1	ND	6.18e+2	ng/dscm	7%O2	1.49e-4	lbs/hr	CE
cis-1,2-Dichloroethene	401C3R2	ND	6.00e+2	ng/dscm	7%O2	1.45e-4	lbs/hr	CE
cis-1,2-Dichloroethene	401C3R3	ND	7.70e+2	ng/dscm	7%O2	2.87e-4	lbs/hr	CE
cis-1,2-Dichloroethene	401C4R1	ND	6.51e+2	ng/dscm	7%O2	1.22e-4	lbs/hr	CE
cis-1,2-Dichloroethene	401C4R2	ND	7.27e+2	ng/dscm	7%O2	1.23e-4	lbs/hr	CE
cis-1,2-Dichloroethene	401C4R3	ND	1.89e+2	ng/dscm	7%O2	3.86e-5	lbs/hr	CE
cis-1,2-Dichloroethene	401C4R4	ND	2.29e+2	ng/dscm	7%O2	3.89e-5	lbs/hr	CE
cis-1,2-Dichloroethene	401C5R1	ND	5.34e+2	ng/dscm	7%O2	1.39e-4	lbs/hr	CE
cis-1,2-Dichloroethene	401C5R2	ND	5.54e+2	ng/dscm	7%O2	1.46e-4	lbs/hr	CE
cis-1,2-Dichloroethene	401C5R3	ND	6.25e+2	ng/dscm	7%O2	1.39e-4	lbs/hr	CE
cis-1,2-Dichloroethene	401C5R4	ND	6.22e+2	ng/dscm	7%O2	1.38e-4	lbs/hr	CE
cis-1,3-Dichloropropene	401C3R1	3	4.19e+2	ng/dscm	7%O2	1.01e-4	lbs/hr	CE
cis-1,3-Dichloropropene	401C3R2	ND	3.84e+2	ng/dscm	7%O2	9.29e-5	lbs/hr	CE
cis-1,3-Dichloropropene	401C3R3	ND	5.06e+2	ng/dscm	7%O2	1.88e-4	lbs/hr	CE
cis-1,3-Dichloropropene	401C4R1	ND	4.02e+2	ng/dscm	7%O2	7.56e-5	lbs/hr	CE
cis-1,3-Dichloropropene	401C4R2	3	4.90e+2	ng/dscm	7%O2	8.29e-5	lbs/hr	CE
cis-1,3-Dichloropropene	401C4R3	ND	1.73e+2	ng/dscm	7%O2	3.53e-5	lbs/hr	CE
cis-1,3-Dichloropropene	401C4R4	3	2.82e+2	ng/dscm	7%O2	4.79e-5	lbs/hr	CE
cis-1,3-Dichloropropene	401C5R1	ND	3.36e+2	ng/dscm	7%O2	8.77e-5	lbs/hr	CE
cis-1,3-Dichloropropene	401C5R2	ND	3.45e+2	ng/dscm	7%O2	9.07e-5	lbs/hr	CE
cis-1,3-Dichloropropene	401C5R3	ND	3.87e+2	ng/dscm	7%O2	8.58e-5	lbs/hr	CE
cis-1,3-Dichloropropene	401C5R4	ND	3.89e+2	ng/dscm	7%O2	8.60e-5	lbs/hr	CE
Cumene	401C3R1	3	3.19e+3	ng/dscm	7%O2	7.71e-4	lbs/hr	CE
Cumene	401C3R2	3	2.91e+3	ng/dscm	7%O2	7.04e-4	lbs/hr	CE
Cumene	401C3R3	3	3.40e+3	ng/dscm	7%O2	1.27e-3	lbs/hr	CE
Cumene	401C4R1	3	1.57e+3	ng/dscm	7%O2	2.95e-4	lbs/hr	CE
Cumene	401C4R2	3	1.53e+3	ng/dscm	7%O2	2.59e-4	lbs/hr	CE
Cumene	401C4R3	3	1.91e+3	ng/dscm	7%O2	3.90e-4	lbs/hr	CE
Cumene	401C4R4	2	3.06e+3	ng/dscm	7%O2	5.20e-4	lbs/hr	CE
Cumene	401C5R1	3	1.80e+3	ng/dscm	7%O2	4.71e-4	lbs/hr	CE
Cumene	401C5R2	3	1.90e+3	ng/dscm	7%O2	5.00e-4	lbs/hr	CE
Cumene	401C5R3	3	2.18e+3	ng/dscm	7%O2	4.84e-4	lbs/hr	CE
Cumene	401C5R4	3	2.63e+3	ng/dscm	7%O2	5.81e-4	lbs/hr	CE
Dibromochloromethane	401C3R1	3	1.72e+3	ng/dscm	7%O2	4.15e-4	lbs/hr	CE
Dibromochloromethane	401C3R2	3	1.62e+3	ng/dscm	7%O2	3.92e-4	lbs/hr	CE
Dibromochloromethane	401C3R3	3	1.14e+3	ng/dscm	7%O2	4.24e-4	lbs/hr	CE
Dibromochloromethane	401C4R1	ND	5.86e+2	ng/dscm	7%O2	1.10e-4	lbs/hr	CE
Dibromochloromethane	401C4R2	3	1.15e+3	ng/dscm	7%O2	1.94e-4	lbs/hr	CE
Dibromochloromethane	401C4R3	3	3.19e+2	ng/dscm	7%O2	6.51e-5	lbs/hr	CE
Dibromochloromethane	401C4R4	ND	2.20e+2	ng/dscm	7%O2	3.74e-5	lbs/hr	CE
Dibromochloromethane	401C5R1	ND	5.84e+2	ng/dscm	7%O2	1.52e-4	lbs/hr	CE
Dibromochloromethane	401C5R2	ND	8.54e+2	ng/dscm	7%O2	2.25e-4	lbs/hr	CE
Dibromochloromethane	401C5R3	ND	6.07e+2	ng/dscm	7%O2	1.35e-4	lbs/hr	CE
Dibromochloromethane	401C5R4	ND	7.00e+2	ng/dscm	7%O2	1.55e-4	lbs/hr	CE
Dibromomethane	401C3R1	ND	8.26e+2	ng/dscm	7%O2	2.00e-4	lbs/hr	CE
Dibromomethane	401C3R2	3	1.01e+3	ng/dscm	7%O2	2.44e-4	lbs/hr	CE
Dibromomethane	401C3R3	3	1.81e+3	ng/dscm	7%O2	6.74e-4	lbs/hr	CE
Dibromomethane	401C4R1	ND	7.34e+2	ng/dscm	7%O2	1.38e-4	lbs/hr	CE
Dibromomethane	401C4R2	ND	8.92e+2	ng/dscm	7%O2	1.51e-4	lbs/hr	CE
Dibromomethane	401C4R3	ND	3.07e+2	ng/dscm	7%O2	6.26e-5	lbs/hr	CE
Dibromomethane	401C4R4	ND	2.87e+2	ng/dscm	7%O2	4.88e-5	lbs/hr	CE
Dibromomethane	401C5R1	ND	6.03e+2	ng/dscm	7%O2	1.57e-4	lbs/hr	CE

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ASH GROVE CEMENT COMPANY
 2. STATE: KS
 3. CITY: CHANUTE
 4. EP ID: 401 DEVICE NAME: KILN NO. 1

EPA ID: KSD031203318
 SYSTEM TYPE: CEMENT KILN

APC SYSTEM: ESP

REGION: 7

Dibromomethane	401C5R2	ND	6.37e+2	ng/dscm	7%O2	1.67e-4	lbs/hr	CE
Dibromomethane	401C5R3	ND	7.39e+2	ng/dscm	7%O2	1.64e-4	lbs/hr	CE
Dibromomethane	401C5R4	ND	7.08e+2	ng/dscm	7%O2	1.57e-4	lbs/hr	CE
Ethyl Acrylate	401C3R1	ND	5.67e+2	ng/dscm	7%O2	1.37e-4	lbs/hr	CE
Ethyl Acrylate	401C3R2	ND	5.71e+2	ng/dscm	7%O2	1.38e-4	lbs/hr	CE
Ethyl Acrylate	401C3R3	ND	7.38e+2	ng/dscm	7%O2	2.75e-4	lbs/hr	CE
Ethyl Acrylate	401C4R1	ND	5.77e+2	ng/dscm	7%O2	1.09e-4	lbs/hr	CE
Ethyl Acrylate	401C4R2	ND	7.32e+2	ng/dscm	7%O2	1.24e-4	lbs/hr	CE
Ethyl Acrylate	401C4R3	ND	2.60e+2	ng/dscm	7%O2	5.30e-5	lbs/hr	CE
Ethyl Acrylate	401C4R4	ND	2.68e+2	ng/dscm	7%O2	4.55e-5	lbs/hr	CE
Ethyl Acrylate	401C5R1	ND	3.97e+2	ng/dscm	7%O2	1.04e-4	lbs/hr	CE
Ethyl Acrylate	401C5R2	ND	4.12e+2	ng/dscm	7%O2	1.08e-4	lbs/hr	CE
Ethyl Acrylate	401C5R3	ND	4.58e+2	ng/dscm	7%O2	1.02e-4	lbs/hr	CE
Ethyl Acrylate	401C5R4	ND	4.58e+2	ng/dscm	7%O2	1.01e-4	lbs/hr	CE
Iodomethane	401C3R1	3	3.51e+3	ng/dscm	7%O2	8.48e-4	lbs/hr	CE
Iodomethane	401C3R2	3	2.69e+3	ng/dscm	7%O2	6.51e-4	lbs/hr	CE
Iodomethane	401C3R3	3	2.93e+3	ng/dscm	7%O2	1.09e-3	lbs/hr	CE
Iodomethane	401C4R1	3	1.07e+3	ng/dscm	7%O2	2.01e-4	lbs/hr	CE
Iodomethane	401C4R2	5	2.28e+4	ng/dscm	7%O2	3.86e-3	lbs/hr	CE
Iodomethane	401C4R3	3	1.29e+4	ng/dscm	7%O2	2.63e-3	lbs/hr	CE
Iodomethane	401C4R4	6	1.17e+4	ng/dscm	7%O2	1.99e-3	lbs/hr	CE
Iodomethane	401C5R1	5	3.10e+3	ng/dscm	7%O2	8.08e-4	lbs/hr	CE
Iodomethane	401C5R2	ND	1.77e+3	ng/dscm	7%O2	4.65e-4	lbs/hr	CE
Iodomethane	401C5R3	4	1.68e+4	ng/dscm	7%O2	3.74e-3	lbs/hr	CE
Iodomethane	401C5R4	4	8.44e+3	ng/dscm	7%O2	1.87e-3	lbs/hr	CE
Isooctane	401C3R1	ND	2.29e+2	ng/dscm	7%O2	5.53e-5	lbs/hr	CE
Isooctane	401C3R2	ND	2.25e+2	ng/dscm	7%O2	5.45e-5	lbs/hr	CE
Isooctane	401C3R3	ND	2.85e+2	ng/dscm	7%O2	1.06e-4	lbs/hr	CE
Isooctane	401C4R1	ND	2.36e+2	ng/dscm	7%O2	4.44e-5	lbs/hr	CE
Isooctane	401C4R2	ND	2.62e+2	ng/dscm	7%O2	4.43e-5	lbs/hr	CE
Isooctane	401C4R3	ND	1.65e+2	ng/dscm	7%O2	3.37e-5	lbs/hr	CE
Isooctane	401C4R4	4	2.01e+2	ng/dscm	7%O2	3.41e-5	lbs/hr	CE
Isooctane	401C5R1	3	6.45e+2	ng/dscm	7%O2	1.68e-4	lbs/hr	CE
Isooctane	401C5R2	3	6.14e+2	ng/dscm	7%O2	1.61e-4	lbs/hr	CE
Isooctane	401C5R3	ND	2.38e+2	ng/dscm	7%O2	5.28e-5	lbs/hr	CE
Isooctane	401C5R4	3	6.22e+2	ng/dscm	7%O2	1.38e-4	lbs/hr	CE
m,p-Xylene	401C2R1		1.43e+5	ng/dscm	7%O2	3.44e-2	lbs/hr	CE7%O2
m,p-Xylene	401C2R2		1.75e+5	ng/dscm	7%O2	4.35e-2	lbs/hr	CE7%O2
m,p-Xylene	401C2R3		6.77e+4	ng/dscm	7%O2	1.47e-2	lbs/hr	CE7%O2
m,p-Xylene	401C2R4		1.08e+5	ng/dscm	7%O2	2.42e-2	lbs/hr	CE7%O2
m,p-Xylene	401C3R1	3	8.81e+4	ng/dscm	7%O2	2.13e-2	lbs/hr	CE
m,p-Xylene	401C3R2	3	1.16e+5	ng/dscm	7%O2	2.81e-2	lbs/hr	CE
m,p-Xylene	401C3R3	3	1.47e+5	ng/dscm	7%O2	5.47e-2	lbs/hr	CE
m,p-Xylene	401C4R1	3	3.58e+4	ng/dscm	7%O2	6.73e-3	lbs/hr	CE
m,p-Xylene	401C4R2	3	4.46e+4	ng/dscm	7%O2	7.54e-3	lbs/hr	CE
m,p-Xylene	401C4R3	3	5.73e+4	ng/dscm	7%O2	1.17e-2	lbs/hr	CE
m,p-Xylene	401C4R4	6	7.35e+4	ng/dscm	7%O2	1.25e-2	lbs/hr	CE
m,p-Xylene	401C5R1	3	4.45e+4	ng/dscm	7%O2	1.16e-2	lbs/hr	CE
m,p-Xylene	401C5R2	3	6.13e+4	ng/dscm	7%O2	1.61e-2	lbs/hr	CE
m,p-Xylene	401C5R3	5	7.35e+4	ng/dscm	7%O2	1.63e-2	lbs/hr	CE
m,p-Xylene	401C5R4	3	9.86e+4	ng/dscm	7%O2	2.18e-2	lbs/hr	CE
Methyl Ethyl Ketone	401C2R1		2.40e+4	ng/dscm	7%O2	5.80e-3	lbs/hr	CE7%O2
Methyl Ethyl Ketone	401C2R2		3.69e+4	ng/dscm	7%O2	9.18e-3	lbs/hr	CE7%O2
Methyl Ethyl Ketone	401C2R3		2.44e+4	ng/dscm	7%O2	5.28e-3	lbs/hr	CE7%O2
Methyl Ethyl Ketone	401C2R4		5.66e+4	ng/dscm	7%O2	1.28e-2	lbs/hr	CE7%O2
Methyl Ethyl Ketone	401C3R1	ND	1.02e+4	ng/dscm	7%O2	2.46e-3	lbs/hr	CE
Methyl Ethyl Ketone	401C3R2	5	1.72e+4	ng/dscm	7%O2	4.16e-3	lbs/hr	CE
Methyl Ethyl Ketone	401C3R3	4	2.42e+4	ng/dscm	7%O2	9.01e-3	lbs/hr	CE
Methyl Ethyl Ketone	401C4R1	4	1.33e+4	ng/dscm	7%O2	2.50e-3	lbs/hr	CE
Methyl Ethyl Ketone	401C4R2	5	1.71e+4	ng/dscm	7%O2	2.89e-3	lbs/hr	CE
Methyl Ethyl Ketone	401C4R3	5	1.38e+4	ng/dscm	7%O2	2.82e-3	lbs/hr	CE
Methyl Ethyl Ketone	401C4R4	4	1.79e+4	ng/dscm	7%O2	3.04e-3	lbs/hr	CE
Methyl Ethyl Ketone	401C5R1	4	2.14e+4	ng/dscm	7%O2	5.58e-3	lbs/hr	CE

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ASH GROVE CEMENT COMPANY
 2. STATE: KS
 3. CITY: CHANUTE
 4. EP ID: 401 DEVICE NAME: KILN NO. 1

EPA ID: KSD031203318
 SYSTEM TYPE: CEMENT KILN

APC SYSTEM: ESP

REGION: 7

Methyl Ethyl Ketone	401C5R2	5	1.96e+4	ng/dscm	7%O2	5.15e-3	lbs/hr	CE
Methyl Ethyl Ketone	401C5R3	4	2.19e+4	ng/dscm	7%O2	4.86e-3	lbs/hr	CE
Methyl Ethyl Ketone	401C5R4	4	2.96e+4	ng/dscm	7%O2	6.55e-3	lbs/hr	CE
Methylene Chloride	401C2R1		1.97e+4	ng/dscm	7%O2	4.75e-3	lbs/hr	CE7%O2
Methylene Chloride	401C2R2		1.79e+4	ng/dscm	7%O2	4.44e-3	lbs/hr	CE7%O2
Methylene Chloride	401C2R3		6.42e+3	ng/dscm	7%O2	1.39e-3	lbs/hr	CE7%O2
Methylene Chloride	401C2R4		2.13e+4	ng/dscm	7%O2	4.79e-3	lbs/hr	CE7%O2
Methylene Chloride	401C3R1	6	8.81e+4	ng/dscm	7%O2	2.13e-2	lbs/hr	CE
Methylene Chloride	401C3R2		7.95e+4	ng/dscm	7%O2	1.92e-2	lbs/hr	CE
Methylene Chloride	401C3R3	6	8.06e+4	ng/dscm	7%O2	3.00e-2	lbs/hr	CE
Methylene Chloride	401C4R1	6	2.18e+5	ng/dscm	7%O2	4.10e-2	lbs/hr	CE
Methylene Chloride	401C4R2	6	1.36e+5	ng/dscm	7%O2	2.30e-2	lbs/hr	CE
Methylene Chloride	401C4R3	6	1.66e+5	ng/dscm	7%O2	3.39e-2	lbs/hr	CE
Methylene Chloride	401C4R4	6	2.82e+5	ng/dscm	7%O2	4.79e-2	lbs/hr	CE
Methylene Chloride	401C5R1	6	6.27e+5	ng/dscm	7%O2	1.64e-1	lbs/hr	CE
Methylene Chloride	401C5R2	6	1.80e+5	ng/dscm	7%O2	4.72e-2	lbs/hr	CE
Methylene Chloride	401C5R3		6.01e+4	ng/dscm	7%O2	1.33e-2	lbs/hr	CE
Methylene Chloride	401C5R4		4.05e+4	ng/dscm	7%O2	8.96e-3	lbs/hr	CE
n-Hexane	401C3R1	3	2.70e+4	ng/dscm	7%O2	6.52e-3	lbs/hr	CE
n-Hexane	401C3R2	3	2.39e+4	ng/dscm	7%O2	5.78e-3	lbs/hr	CE
n-Hexane	401C3R3	3	2.87e+4	ng/dscm	7%O2	1.07e-2	lbs/hr	CE
n-Hexane	401C4R1	3	1.97e+4	ng/dscm	7%O2	3.71e-3	lbs/hr	CE
n-Hexane	401C4R2	3	3.02e+4	ng/dscm	7%O2	5.11e-3	lbs/hr	CE
n-Hexane	401C4R3	3	2.51e+4	ng/dscm	7%O2	5.12e-3	lbs/hr	CE
n-Hexane	401C4R4	3	2.79e+4	ng/dscm	7%O2	4.74e-3	lbs/hr	CE
n-Hexane	401C5R1	3	2.41e+4	ng/dscm	7%O2	6.29e-3	lbs/hr	CE
n-Hexane	401C5R2	5	2.51e+4	ng/dscm	7%O2	6.59e-3	lbs/hr	CE
n-Hexane	401C5R3	3	2.84e+4	ng/dscm	7%O2	6.30e-3	lbs/hr	CE
n-Hexane	401C5R4	5	4.02e+4	ng/dscm	7%O2	8.90e-3	lbs/hr	CE
o-Xylene	401C2R1		5.84e+4	ng/dscm	7%O2	1.41e-2	lbs/hr	CE7%O2
o-Xylene	401C2R2		7.79e+4	ng/dscm	7%O2	1.94e-2	lbs/hr	CE7%O2
o-Xylene	401C2R3		2.77e+4	ng/dscm	7%O2	6.01e-3	lbs/hr	CE7%O2
o-Xylene	401C2R4		4.31e+4	ng/dscm	7%O2	9.73e-3	lbs/hr	CE7%O2
o-Xylene	401C3R1	3	3.72e+4	ng/dscm	7%O2	8.99e-3	lbs/hr	CE
o-Xylene	401C3R2	5	4.56e+4	ng/dscm	7%O2	1.10e-2	lbs/hr	CE
o-Xylene	401C3R3	3	5.74e+4	ng/dscm	7%O2	2.14e-2	lbs/hr	CE
o-Xylene	401C4R1	5	1.43e+4	ng/dscm	7%O2	2.69e-3	lbs/hr	CE
o-Xylene	401C4R2	3	1.39e+4	ng/dscm	7%O2	2.35e-3	lbs/hr	CE
o-Xylene	401C4R3	3	2.21e+4	ng/dscm	7%O2	4.51e-3	lbs/hr	CE
o-Xylene	401C4R4	6	3.35e+4	ng/dscm	7%O2	5.69e-3	lbs/hr	CE
o-Xylene	401C5R1	4	1.94e+4	ng/dscm	7%O2	5.06e-3	lbs/hr	CE
o-Xylene	401C5R2	4	2.60e+4	ng/dscm	7%O2	6.84e-3	lbs/hr	CE
o-Xylene	401C5R3	4	3.07e+4	ng/dscm	7%O2	6.81e-3	lbs/hr	CE
o-Xylene	401C5R4	4	4.01e+4	ng/dscm	7%O2	8.87e-3	lbs/hr	CE
Styrene	401C2R1		1.27e+5	ng/dscm	7%O2	3.07e-2	lbs/hr	CE7%O2
Styrene	401C2R2		1.59e+5	ng/dscm	7%O2	3.96e-2	lbs/hr	CE7%O2
Styrene	401C2R3		4.94e+4	ng/dscm	7%O2	1.07e-2	lbs/hr	CE7%O2
Styrene	401C2R4		9.06e+4	ng/dscm	7%O2	2.04e-2	lbs/hr	CE7%O2
Styrene	401C3R1	3	5.55e+4	ng/dscm	7%O2	1.34e-2	lbs/hr	CE
Styrene	401C3R2	3	8.21e+4	ng/dscm	7%O2	1.99e-2	lbs/hr	CE
Styrene	401C3R3	3	1.40e+5	ng/dscm	7%O2	5.21e-2	lbs/hr	CE
Styrene	401C4R1	3	1.19e+4	ng/dscm	7%O2	2.24e-3	lbs/hr	CE
Styrene	401C4R2	3	1.59e+4	ng/dscm	7%O2	2.69e-3	lbs/hr	CE
Styrene	401C4R3	5	3.39e+4	ng/dscm	7%O2	6.92e-3	lbs/hr	CE
Styrene	401C4R4	3	6.55e+4	ng/dscm	7%O2	1.11e-2	lbs/hr	CE
Styrene	401C5R1	3	2.95e+4	ng/dscm	7%O2	7.69e-3	lbs/hr	CE
Styrene	401C5R2	3	3.67e+4	ng/dscm	7%O2	9.64e-3	lbs/hr	CE
Styrene	401C5R3	4	4.22e+4	ng/dscm	7%O2	9.36e-3	lbs/hr	CE
Styrene	401C5R4	3	4.07e+4	ng/dscm	7%O2	9.00e-3	lbs/hr	CE
t-Butyl Methyl Ether	401C3R1	3	3.64e+2	ng/dscm	7%O2	8.79e-5	lbs/hr	CE
t-Butyl Methyl Ether	401C3R2	ND	3.59e+2	ng/dscm	7%O2	8.69e-5	lbs/hr	CE
t-Butyl Methyl Ether	401C3R3	ND	4.64e+2	ng/dscm	7%O2	1.73e-4	lbs/hr	CE
t-Butyl Methyl Ether	401C4R1	ND	3.76e+2	ng/dscm	7%O2	7.07e-5	lbs/hr	CE

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ASH GROVE CEMENT COMPANY
 2. STATE: KS
 3. CITY: CHANUTE
 4. EP ID: 401 DEVICE NAME: KILN NO. 1

EPA KSD031203318
 SYSTEM TYPE: CEMENT KILN

APC SYSTEM: ESP

REGION: 7

t-Butyl Methyl Ether	401C4R2	ND	4.27e+2	ng/dscm	7%O2	7.22e-5	lbs/hr	CE
t-Butyl Methyl Ether	401C4R3	ND	1.73e+2	ng/dscm	7%O2	3.53e-5	lbs/hr	CE
t-Butyl Methyl Ether	401C4R4	ND	2.20e+2	ng/dscm	7%O2	3.74e-5	lbs/hr	CE
t-Butyl Methyl Ether	401C5R1	ND	3.13e+2	ng/dscm	7%O2	8.17e-5	lbs/hr	CE
t-Butyl Methyl Ether	401C5R2	ND	3.22e+2	ng/dscm	7%O2	8.46e-5	lbs/hr	CE
t-Butyl Methyl Ether	401C5R3	ND	3.61e+2	ng/dscm	7%O2	8.01e-5	lbs/hr	CE
t-Butyl Methyl Ether	401C5R4	ND	3.63e+2	ng/dscm	7%O2	8.03e-5	lbs/hr	CE
Tetrachloroethene	401C2R1	ND	3.29e+2	ng/dscm	7%O2	7.94e-5	lbs/hr	CC7%O2
Tetrachloroethene	401C2R2	ND	4.16e+2	ng/dscm	7%O2	1.03e-4	lbs/hr	CC7%O2
Tetrachloroethene	401C2R3	ND	4.03e+2	ng/dscm	7%O2	8.73e-5	lbs/hr	CC7%O2
Tetrachloroethene	401C2R4	ND	1.08e+3	ng/dscm	7%O2	2.43e-4	lbs/hr	CC7%O2
Tetrachloroethene	401C3R1	3	1.35e+3	ng/dscm	7%O2	3.26e-4	lbs/hr	CE
Tetrachloroethene	401C3R2	3	9.30e+2	ng/dscm	7%O2	2.25e-4	lbs/hr	CE
Tetrachloroethene	401C3R3	3	1.17e+3	ng/dscm	7%O2	4.36e-4	lbs/hr	CE
Tetrachloroethene	401C4R1	3	9.09e+2	ng/dscm	7%O2	1.71e-4	lbs/hr	CE
Tetrachloroethene	401C4R2	3	1.16e+3	ng/dscm	7%O2	1.96e-4	lbs/hr	CE
Tetrachloroethene	401C4R3	3	2.99e+2	ng/dscm	7%O2	6.10e-5	lbs/hr	CE
Tetrachloroethene	401C4R4	3	6.98e+2	ng/dscm	7%O2	1.19e-4	lbs/hr	CE
Tetrachloroethene	401C5R1	3	9.77e+2	ng/dscm	7%O2	2.55e-4	lbs/hr	CE
Tetrachloroethene	401C5R2	3	9.03e+2	ng/dscm	7%O2	2.37e-4	lbs/hr	CE
Tetrachloroethene	401C5R3	3	7.66e+2	ng/dscm	7%O2	1.70e-4	lbs/hr	CE
Tetrachloroethene	401C5R4	3	9.81e+2	ng/dscm	7%O2	2.17e-4	lbs/hr	CE
Toluene	401C2R1		2.85e+5	ng/dscm	7%O2	6.89e-2	lbs/hr	CE7%O2
Toluene	401C2R2		3.20e+5	ng/dscm	7%O2	7.95e-2	lbs/hr	CE7%O2
Toluene	401C2R3		1.27e+5	ng/dscm	7%O2	2.75e-2	lbs/hr	CE7%O2
Toluene	401C2R4		2.97e+5	ng/dscm	7%O2	6.69e-2	lbs/hr	CE7%O2
Toluene	401C3R1	2	1.57e+3	ng/dscm	7%O2	3.79e-4	lbs/hr	CE
Toluene	401C3R2	2	2.32e+5	ng/dscm	7%O2	5.61e-2	lbs/hr	CE
Toluene	401C3R3	2	3.41e+5	ng/dscm	7%O2	1.27e-1	lbs/hr	CE
Toluene	401C4R1	2	1.08e+5	ng/dscm	7%O2	2.03e-2	lbs/hr	CE
Toluene	401C4R2	6	1.25e+5	ng/dscm	7%O2	2.11e-2	lbs/hr	CE
Toluene	401C4R3	6	1.72e+5	ng/dscm	7%O2	3.51e-2	lbs/hr	CE
Toluene	401C4R4	6	2.23e+5	ng/dscm	7%O2	3.79e-2	lbs/hr	CE
Toluene	401C5R1		1.64e+5	ng/dscm	7%O2	4.29e-2	lbs/hr	CE
Toluene	401C5R2	6	1.89e+5	ng/dscm	7%O2	4.96e-2	lbs/hr	CE
Toluene	401C5R3	6	2.46e+5	ng/dscm	7%O2	5.46e-2	lbs/hr	CE
Toluene	401C5R4	2	2.77e+5	ng/dscm	7%O2	6.12e-2	lbs/hr	CE
trans-1,3-Dichloropropene	401C3R1	ND	4.49e+2	ng/dscm	7%O2	1.08e-4	lbs/hr	CE
trans-1,3-Dichloropropene	401C3R2	ND	4.42e+2	ng/dscm	7%O2	1.07e-4	lbs/hr	CE
trans-1,3-Dichloropropene	401C3R3	ND	5.80e+2	ng/dscm	7%O2	2.16e-4	lbs/hr	CE
trans-1,3-Dichloropropene	401C4R1	ND	4.63e+2	ng/dscm	7%O2	8.71e-5	lbs/hr	CE
trans-1,3-Dichloropropene	401C4R2	ND	5.24e+2	ng/dscm	7%O2	8.86e-5	lbs/hr	CE
trans-1,3-Dichloropropene	401C4R3	ND	1.81e+2	ng/dscm	7%O2	3.69e-5	lbs/hr	CE
trans-1,3-Dichloropropene	401C4R4	3	3.39e+2	ng/dscm	7%O2	5.76e-5	lbs/hr	CE
trans-1,3-Dichloropropene	401C5R1	ND	3.74e+2	ng/dscm	7%O2	9.76e-5	lbs/hr	CE
trans-1,3-Dichloropropene	401C5R2	ND	3.90e+2	ng/dscm	7%O2	1.03e-4	lbs/hr	CE
trans-1,3-Dichloropropene	401C5R3	ND	4.31e+2	ng/dscm	7%O2	9.56e-5	lbs/hr	CE
trans-1,3-Dichloropropene	401C5R4	ND	4.41e+2	ng/dscm	7%O2	9.75e-5	lbs/hr	CE
Trichloroethene	401C3R1	3	9.23e+2	ng/dscm	7%O2	2.23e-4	lbs/hr	CE
Trichloroethene	401C3R2	3	6.13e+2	ng/dscm	7%O2	1.48e-4	lbs/hr	CE
Trichloroethene	401C3R3	3	8.70e+2	ng/dscm	7%O2	3.24e-4	lbs/hr	CE
Trichloroethene	401C4R1	3	5.99e+2	ng/dscm	7%O2	1.13e-4	lbs/hr	CE
Trichloroethene	401C4R2	3	1.01e+3	ng/dscm	7%O2	1.71e-4	lbs/hr	CE
Trichloroethene	401C4R3	3	3.62e+2	ng/dscm	7%O2	7.39e-5	lbs/hr	CE
Trichloroethene	401C4R4	3	2.44e+2	ng/dscm	7%O2	4.15e-5	lbs/hr	CE
Trichloroethene	401C5R1	6	6.70e+5	ng/dscm	7%O2	1.75e-1	lbs/hr	CE
Trichloroethene	401C5R2	6	5.02e+5	ng/dscm	7%O2	1.32e-1	lbs/hr	CE
Trichloroethene	401C5R3	6	1.92e+5	ng/dscm	7%O2	4.26e-2	lbs/hr	CE
Trichloroethene	401C5R4	6	4.32e+5	ng/dscm	7%O2	9.55e-2	lbs/hr	CE
Trichlorofluoromethane	401C2R1		4.79e+3	ng/dscm	7%O2	1.16e-3	lbs/hr	CE7%O2
Vinyl Acetate	401C3R1	ND	4.15e+2	ng/dscm	7%O2	1.00e-4	lbs/hr	CE
Vinyl Acetate	401C3R2	ND	4.09e+2	ng/dscm	7%O2	9.90e-5	lbs/hr	CE

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ASH GROVE CEMENT COMPANY
 2. STATE: KS
 3. CITY: CHANUTE
 4. EP ID: 401 DEVICE NAME: KILN NO. 1

EPA ID: KSD031203318
 SYSTEM TYPE: CEMENT KILN

APC SYSTEM: ESP

REGION: 7

Vinyl Acetate	401C3R3	ND	5.38e+2	ng/dscm	7%O2	2.00e-4	lbs/hr	CE
Vinyl Acetate	401C4R1	ND	4.28e+2	ng/dscm	7%O2	8.05e-5	lbs/hr	CE
Vinyl Acetate	401C4R2	ND	4.85e+2	ng/dscm	7%O2	8.20e-5	lbs/hr	CE
Vinyl Acetate	401C4R3	ND	1.81e+2	ng/dscm	7%O2	3.69e-5	lbs/hr	CE
Vinyl Acetate	401C4R4	ND	2.20e+2	ng/dscm	7%O2	3.74e-5	lbs/hr	CE
Vinyl Acetate	401C5R1	ND	3.21e+2	ng/dscm	7%O2	8.38e-5	lbs/hr	CE
Vinyl Acetate	401C5R2	ND	3.30e+2	ng/dscm	7%O2	8.68e-5	lbs/hr	CE
Vinyl Acetate	401C5R3	ND	3.70e+2	ng/dscm	7%O2	8.21e-5	lbs/hr	CE
Vinyl Acetate	401C5R4	ND	3.71e+2	ng/dscm	7%O2	8.20e-5	lbs/hr	CE
Vinyl Bromide	401C3R1	3	4.53e+3	ng/dscm	7%O2	1.09e-3	lbs/hr	CE
Vinyl Bromide	401C3R2	3	6.31e+3	ng/dscm	7%O2	1.53e-3	lbs/hr	CE
Vinyl Bromide	401C3R3	3	7.68e+3	ng/dscm	7%O2	2.86e-3	lbs/hr	CE
Vinyl Bromide	401C4R1	3	1.19e+3	ng/dscm	7%O2	2.24e-4	lbs/hr	CE
Vinyl Bromide	401C4R2	3	9.46e+2	ng/dscm	7%O2	1.60e-4	lbs/hr	CE
Vinyl Bromide	401C4R3	ND	3.34e+2	ng/dscm	7%O2	6.81e-5	lbs/hr	CE
Vinyl Bromide	401C4R4	ND	4.78e+2	ng/dscm	7%O2	8.12e-5	lbs/hr	CE
Vinyl Bromide	401C5R1	3	1.64e+3	ng/dscm	7%O2	4.27e-4	lbs/hr	CE
Vinyl Bromide	401C5R2	3	2.58e+3	ng/dscm	7%O2	6.78e-4	lbs/hr	CE
Vinyl Bromide	401C5R3	3	2.39e+3	ng/dscm	7%O2	5.31e-4	lbs/hr	CE
Vinyl Bromide	401C5R4	3	1.09e+3	ng/dscm	7%O2	2.42e-4	lbs/hr	CE
Vinyl Chloride	401C3R1	3	1.40e+4	ng/dscm	7%O2	3.38e-3	lbs/hr	CE
Vinyl Chloride	401C3R2	5	1.13e+4	ng/dscm	7%O2	2.73e-3	lbs/hr	CE
Vinyl Chloride	401C3R3	3	1.43e+4	ng/dscm	7%O2	5.32e-3	lbs/hr	CE
Vinyl Chloride	401C4R1	4	6.76e+3	ng/dscm	7%O2	1.27e-3	lbs/hr	CE
Vinyl Chloride	401C4R2	5	7.95e+3	ng/dscm	7%O2	1.34e-3	lbs/hr	CE
Vinyl Chloride	401C4R3	5	6.96e+3	ng/dscm	7%O2	1.42e-3	lbs/hr	CE
Vinyl Chloride	401C4R4	5	1.05e+4	ng/dscm	7%O2	1.78e-3	lbs/hr	CE
Vinyl Chloride	401C5R1	4	1.47e+4	ng/dscm	7%O2	3.85e-3	lbs/hr	CE
Vinyl Chloride	401C5R2	4	8.68e+3	ng/dscm	7%O2	2.28e-3	lbs/hr	CE
Vinyl Chloride	401C5R3	4	5.94e+3	ng/dscm	7%O2	1.32e-3	lbs/hr	CE
Vinyl Chloride	401C5R4	5	7.33e+3	ng/dscm	7%O2	1.62e-3	lbs/hr	CE

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