

ARKANSAS Department of Environmental Quality
PPS REQUIREMENTS

1. Name of facility:
Ash Grove Cement Company
2. Name, address and telephone number of laboratory:
Arkansas Analytical
11701 I-30; Building 1; Suite 115; Little Rock, AR 72209
3. Is the lab certified by the State of Arkansas? Yes No
4. What are the certification dates?
Issued date 10-30-05 Expire date 10-30-06
5. Is the laboratory certified for all the parameters?
YES No (Explain)

6. Date and time of samples collected:
3-1-06/1345
7. Date and time samples were received in the laboratory:
3-1-06/1700
8. Sample location (Outfall No.):
Outfall 001
9. Samples collected by:
Name Joel Ledbetter
Title Chemist
Telephone 501-455-3233

10. I certify under penalty of law that this document and all attachments were prepared under my direction of supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or person who manage the system, or those person directly responsible for gathering the information submitted is, to the best of my knowledge and belief, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Dan Peterson
Printed Name of person signing

[Signature]
Signature

Plant Manager
Title

5-3-09
Date signed

List all attachments to this form:

ATTACHMENT 1

METALS AND CYANIDE	FOR OFFICE USE ONLY	LABORATORY ANALYSIS				RECOMMENDED EPA TEST METHOD	
		RESULTS (µg/l)	EPA METHOD USED	DETECTION LEVEL ACHIEVED (µg/l)	REQUIRED MOL (µg/L)	EPA APPROVED TEST METHOD	
1. Antimony (Total) ¹ , Recoverable		ND	200.7	60	60	200.7	
2. Arsenic (Total) ¹ , Recoverable		ND	200.7	10	10	206.2	
3. Beryllium (Total) ¹ , Recoverable		ND	200.7	5	5	200.7	
4. Cadmium (Total) ² , Recoverable		ND	200.7	1	1	213.2	
5. Chromium (Total) ¹ , Recoverable		ND	200.7	10	10	200.7	
7. Chromium (6+) ¹ , Dissolved		ND	200.7	10	10	218.4	
8. Copper (Total) ² , Recoverable		ND	200.7	10	10	220.2	
9. Lead (Total) ² , Recoverable		ND	239.2	5	5	239.2	
10. Mercury (Total) ¹ , Recoverable		ND	245.1	0.2	0.2	245.1	
12. Nickel (Total) ¹ (freshwater)		ND	200.7	40	40	200.7	
13. Selenium (Total) ¹ , Recoverable		ND	270.2	5	5	270.2	
14. Silver (Total) ² , Recoverable		ND	200.7	2	2	272.2	
15. Thallium (Total) ¹ , Recoverable		ND	200.7	10	10	279.2	
16. Zinc (Total) ¹ , Recoverable		ND	200.7	20	20	200.7	
129. Phenols, Total Recoverable		ND	420.1	5	5	420.1	
17. Cyanide (Total) ¹ , Recoverable		ND	335.2	20	20	335.2	

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	FOR OFFICE USE ONLY	LABORATORY ANALYSIS			RECOMMENDED EPA TEST METHOD	
		RESULTS (ug/l)	TEST METHOD USED	DETECTION LEVEL ACHIEVED (ug/l)	REQUIRED MQL (ug/l)	EPA APPROVED TEST METHODS
18. DIOXIN 2,3,7,8-Tetrachloro-dibenzo-p-dioxin (TCDD)		ND	625 screen only	10	0.00001	1613

ATTACHMENT 1

VOLATILE COMPOUNDS	FOR OFFICE USE ONLY	LABORATORY ANALYSIS				RECOMMENDED EPA TEST METHOD	
		RESULTS (ug/l)	TEST METHOD USED	DETECTION LEVEL ACHIEVED (ug/l)	REQUIRED MCL (ug/l)	EPA APPROVED TEST METHODS	
19. Acrolein ¹		ND	624	50	50	624	
20. Acrylonitrile ⁴		ND	624	50	50	624	
21. Benzene ¹		ND	624	10	10	624	
22. Bromoform ⁵		ND	624	10	10	624	
23. Carbon Tetrachloride ⁶		ND	624	10	10	624	
24. Chlorobenzene ⁵		ND	624	10	10	624	
25. Chlorodibromomethane ⁵		ND	624	10	10	624	
26. Chloroethane ⁵		ND	624	50	50	624	
27. 2-Chloroethyl vinyl ether ⁴		ND	624	10	10	624	
28. Chloroform ⁵		ND	624	10	10	624	
29. Dichlorobromomethane ⁵		ND	624	10	10	624	
30. 1,1-Dichloroethane ⁵		ND	624	10	10	624	
31. 1,2-Dichloroethane ⁵		ND	624	10	10	624	
32. 1,1-Dichloroethylene ⁵		ND	624	10	10	624	
33. 1,2-Dichloropropane ⁵		ND	624	10	10	624	
34. 1,3-Dichloropropylene ⁵		ND	624	10	10	624	
35. Ethylbenzene ⁵		ND	624	10	10	624	
36. Methyl Bromide [Bromomethane] ⁶		ND	624	50	50	624	
37. Methyl Chloride [Chloromethane] ⁶		ND	624	50	50	624	
38. Methylene Chloride ⁵		ND	624	20	20	624	
39. 1,1,2,2-Tetrachloroethane ⁵		ND	624	10	10	624	
40. Tetrachloroethylene ⁵		ND	624	10	10	624	
41. Toluene ⁵		ND	624	10	10	624	
42. 1,2-trans-Dichloroethylene ⁵		ND	624	10	10	624	
43. 1,1,1-Trichloroethane ⁵		ND	624	10	10	624	
44. 1,1,2-Trichloroethane ⁵		ND	624	10	10	624	
45. Trichloroethylene ⁵		ND	624	10	10	624	
46. Vinyl Chloride ⁵		ND	624	10	10	624	

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ACID COMPOUNDS	FOR OFFICE USE ONLY	LABORATORY ANALYSIS				RECOMMENDED EPA TEST METHOD	
		RESULTS (ug/l)	EPA METHOD USED	DETECTION LEVEL, ACHIEVED (ug/l)	REQUIRED (ug/l)	EPA APPROVED TEST METHOD	
47. 2-Chlorophenol ⁵		ND	625	10	10	625	
48. 2,4-Dichlorophenol ⁵		ND	625	10	10	625	
49. 2,4-Dimethylphenol ⁷		ND	625	10	10	625	
50. 4,6-Dinitro-o-Cresol {2 methyl 4,6-dinitrophenol ⁶ }		ND	625	50	50	625	
51. 2,4-Dinitrophenol ⁵		ND	625	50	50	625	
52. 2-Nitrophenol ⁶		ND	625	20	20	625	
53. 4-Nitrophenol ⁵		ND	625	50	50	625	
54. P-Chloro-m-Cresol {4 Chloro-3-methylphenol ⁵ }		ND	625	10	10	625	
55. Pentachlorophenol ⁵		ND	625	50	50	625	
56. Phenol ⁵		ND	625	10	10	625	
57. 2,4,6-Trichlorophenol ⁵		ND	625	10	10	625	

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BASE/NEUTRAL COMPOUNDS	FOR OFFICE USE ONLY	LABORATORY ANALYSIS			RECOMMENDED EPA TEST METHOD	
		RESULTS (ug/l)	TEST METHOD USED	DETECTION LEVEL ACHIEVED (ug/l)	REQUIRED MOL (ug/l)	EPA APPROVED TEST METHOD
58. Acenaphthene ^s		ND	625	10	10	625
59. Acenaphthylene ^s		ND	625	10	10	625
60. Anthracene ^s		ND	625	10	10	625
61. Benzidine ^s		ND	625	50	50	625
62. Benzo (a) anthracene ^s		ND	625	10	10	625
63. Benzo (a) pyrene ^s		ND	625	10	10	625
64. 3,4-Benzofluoranthene ^s		ND	625	10	10	625
65. Benzo (ghi) perylene ^s		ND	625	20	20	625
66. Benzo (k) fluoranthene ^s		ND	625	10	10	625
67. Bis(2-chloroethoxy) methane ^s		ND	625	10	10	625
68. Bis(2-chloroethyl) ether ^s		ND	625	10	10	625
69. Bis(2-chloroisopropyl) ether ^s		ND	625	10	10	625
70. Bis(2-ethylhexyl) phthalate ^s		ND	625	10	10	625
71. 4-Bromophenyl phenyl ether ^s		ND	625	10	10	625
72. Butyl benzyl phthalate ^s		ND	625	10	10	625
73. 2-Chloronaphthalene ^s		ND	625	10	10	625
74. 4-Chlorophenyl phenyl ether ^s		ND	625	10	10	625
75. Chrysene ^s		ND	625	10	10	625
76. Dibenzo (a,h) anthracene ^s		ND	625	20	20	625
77. 1,2-Dichlorobenzene ^s		ND	625	10	10	625
78. 1,3-Dichlorobenzene ^s		ND	625	10	10	625
79. 1,4-Dichlorobenzene ^s		ND	625	10	10	625
80. 3,3'-Dichlorobenzidine ^s		ND	625	50	50	625
81. Diethyl Phthalate ^s		ND	625	10	10	625
82. Dimethyl Phthalate ^s		ND	625	10	10	625
83. Di-n-Butyl Phthalate ^s		ND	625	10	10	625
84. 2,4-Dinitrotoluene ^s		ND	625	10	10	625
85. 2,5-Dinitrotoluene ^s		ND	625	10	10	625
86. Di-n-octyl Phthalate ^s		ND	625	10	10	625

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		RESULTS (µg/l)	TEST METHOD USED	DETECTION LEVEL ACHIEVED (µg/l)	REQUIRED MQL (µg/l)	EPA APPROVED TEST METHOD	
87. 1,2-Diphenylhydrazine ⁵		ND	625	20	20	625	
88. Fluoranthene ⁵		ND	625	10	10	625	
89. Fluorene ⁵		ND	625	10	10	625	
90. Hexachlorobenzene ⁵		ND	625	10	10	625	
91. Hexachlorobutadiene ⁵		ND	625	10	10	625	
92. Hexachlorocyclopentadiene ⁵		ND	625	10	10	625	
93. Hexachloroethane ⁵		ND	625	20	20	625	
94. Indeno (1,2,3-cd) pyrene ⁶ (2,3-c-phenylene pyrene)		ND	625	20	20	625	
95. Isophorone ⁵		ND	625	10	10	625	
96. Naphthalene ⁵		ND	625	10	10	625	
97. Nitrobenzene ⁵		ND	625	10	10	625	
98. N-nitrosodimethylamine ⁶		ND	625	50	50	625	
99. N-nitrosodi-n-propylamine ⁶		ND	625	20	20	625	
100. N-nitrosodiphenylamine ⁶		ND	625	20	20	625	
101. Phenanthrene ⁵		ND	625	10	10	625	
102. Pyrene ⁵		ND	625	10	10	625	
103. 1,2,4-Trichlorobenzene ⁵		ND	625	10	10	625	

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PESTICIDES	FOR OFFICE USE ONLY	LABORATORY ANALYSIS				RECOMMENDED EPA TEST METHOD	
		RESULTS (ug/l)	TEST METHOD USED	DETECTION LEVEL ACHIEVED (ug/l)	REQUIRED MQL (ug/l)	EPA APPROVED TEST METHOD	
104. Aldrin ⁵		ND	608	0.05	0.05	608	
105. Alpha-BHC ⁵		ND	608	0.05	0.05	608	
106. Beta-BHC ⁵		ND	608	0.05	0.05	608	
107. Gamma-BHC ⁵		ND	608	0.05	0.05	608	
108. Delta-BHC ⁵		ND	608	0.05	0.05	608	
109. Chlordane ⁵		ND	608	0.2	0.2	608	
110. 4,4'-DDT ⁵		ND	608	0.1	0.1	608	
111. 4,4'-DDE (p,p-DDX) ⁵		ND	608	0.1	0.1	608	
112. 4,4'-DDD 9(p,p-TDE) ⁵		ND	608	0.1	0.1	608	
113. Dieldrin ⁵		ND	608	0.1	0.1	608	
114. Alpha-endosulfan ⁵		ND	608	0.1	0.1	608	
115. Beta-endosulfan ⁵		ND	608	0.1	0.1	608	
116. Endosulfan sulfate ⁵		ND	608	0.1	0.1	608	
117. Endrin ⁵		ND	608	0.1	0.1	608	
118. Endrin aldehyde ⁵		ND	608	0.1	0.1	608	
119. Heptachlor ⁵		ND	608	0.05	0.05	608	
120. Heptachlor epoxide ⁵ (BHC-hexachlorocyclohexane)		ND	608	1.0	1.0	608	
130. Chlorpyrifos		ND	8141A	0.07	0.07	8141A	
121. PCB-1242 ⁵		ND	608	1.0	1.0	608	
122. PCB-1254		ND	608	1.0	1.0	608	
123. PCB-1221		ND	608	1.0	1.0	608	
124. PCB-1232		ND	608	1.0	1.0	608	
125. PCB-1248		ND	608	1.0	1.0	608	
126. PCB-1260		ND	608	1.0	1.0	608	
127. PCB-1016		ND	608	1.0	1.0	608	
128. Toxaphene ⁵		ND	608	5.0	5.0	608	



State of Arkansas
 Department of Environmental Quality
 Laboratory Certification Program
 Arkansas Analytical, Inc.
 Little Rock, AR

has earned certification by law in accordance with Code Annotated §8-2-201 et seq., the State Environmental Laboratory Certification Program Act for the following parameters:

Alkalinity	Antimony	Mercury	Tin
Ammonia	Arsenic	Molybdenum	Titanium
BOD	Barium	Nickel	TPHC
Bromide	Beryllium	Potassium	Vanadium
CBOD	Boron	Selenium	Volatile Organics
Chloride	Cadmium	Silver	Zinc
Chlorine	Calcium	Sodium	
Chlorine	Chromium	Strontium	
COD	Cobalt	Acute Toxicity	
Conductivity	Copper	Chronic Toxicity	
Cyanide	Hex. Chromium	Fecal Coliform	
Fluoride	Iron	Herbicides	
Hardness	Lead	Pesticides & PCBs	
Nitrate	Magnesium	Semi-volatiles	
Nitrite	Manganese	Thallium	
Oil & Grease			
Orthophosphate			
Perchlorate			
pH			
Phenol			
Sulfate			
Sulfide			
Surfactants			
TDS			
TKN			
TOC			
Total Phosphorus			
Total Solids			
TSS			
Turbidity			
Aluminum			

Laboratory ID: 60-1754

Certificate Number: 05-070-0

Issued Date: 30 October 2005

Expired Date: 30 October 2006

J.A. Demerski
 ADEQ Quality Assurance Officer

Date: *October 28, 2005*