

ASH GROVE CEMENT COMPANY



4343 HIGHWAY 108
FOREMAN, ARKANSAS 71836
PHONE 870/542-3010
FAX 870/542-3026

CAREY AUSTELL
PLANT MANAGER

May 21, 2012

Mr. Shane Byrum
Staff Engineer
Discharge Permits Section, Water Division
Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118-5317

Subject: Ash Grove Cement Company
NPDES Permit No. AR0042846 AFIN: 41-00001

Dear Mr. Byrum:

In accordance with paragraphs 6 and 7 of Part II of the referenced permit, Ash Grove Cement is submitting the following

- Tab 1. Laboratory report for Total Recoverable Copper for Outfall 002 (Paragraph 6 of Part II), and
- Tab 2. Form PPS and laboratory report for Outfall 001 (Paragraph 7 of Part II).

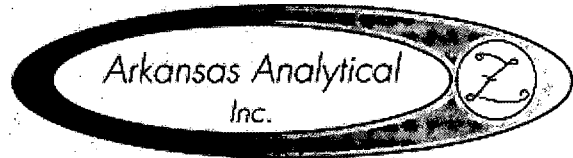
These samples were taken at the first available discharge following submittal of the permit application.

If you have any questions please contact Mr. Keith Byerly at (870) 542-3017.

Sincerely:

Carey Austell
Plant Manager

cc: Keith Byerly, Ash Grove
Bob Blanz, Blanz Engineering



11701 I-30 Bldg 1, Ste 115 - Little Rock, AR 72209
501-455-3233 Fax 501-455-6118

27 February 2012

Keith Byerly
Ash Grove Cement Company
4343 Hwy. 108 W
Foreman, AR 71836

RE: Permit Renewal Sample; Outfall 002

SDG Number: 1202218

Enclosed are the results of analyses for samples received by the laboratory on 22-Feb-12 17:15. If you have any questions concerning this report, please feel free to contact me.

Sample Receipt Information:

Custody Seals	✓
Containers Correct	✓
COC/Labels Agree	✓
Preservation Confirmed	✓
Received On Ice	✓
Temperature on Receipt	7.0°C

Sincerely,

A handwritten signature in cursive script that reads "Norma James".

Norma James
President

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27 February 2012



Keith Byerly
Ash Grove Cement Company
4343 Hwy. 108 W
Foreman, AR 71836
Project: Permit Renewal Sample; Outfall 002
Project Number: Resample
Date Received: 22-Feb-12 17:15

ANALYTICAL RESULTS

Lab Number: 1202218-01
Sample Name: Outfall 002
Date/Time Collected: 2/22/12 12:45
Sample Matrix: Water

PPS Metals	Units	Result	Qualifier(s)	Date/Time Analyzed	Batch	Method
Copper	ug/L	1.09		2/24/12 8:44	A202303	3113B

ANALYTICAL RESULTS

Lab Number: 1202218-02
Sample Name: Outfall 002 Duplicate
Date/Time Collected: 2/22/12 12:45
Sample Matrix: Water

PPS Metals	Units	Result	Qualifier(s)	Date/Time Analyzed	Batch	Method
Copper	ug/L	1.07		2/24/12 8:44	A202303	3113B

ANALYTICAL RESULTS

Lab Number: 1202218-03
Sample Name: Outfall 002 Field Blank
Date/Time Collected: 2/22/12 12:45
Sample Matrix: Water

PPS Metals	Units	Result	Qualifier(s)	Date/Time Analyzed	Batch	Method
Copper	ug/L	< 0.500		2/24/12 8:44	A202303	3113B

QUALITY CONTROL RESULTS

PPS Metals -- Batch: A202303 (Water)
Prepared: 24-Feb-12 08:10 By: MH -- Analyzed: 24-Feb-12 08:44 By: MH

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Copper	<0.500 ug/L	104% / NA	112% / 106%		3.98%	

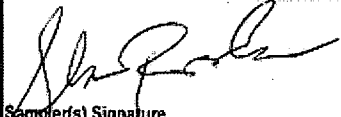
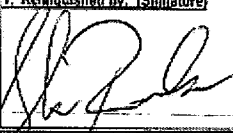
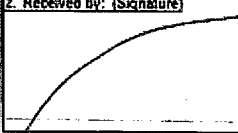
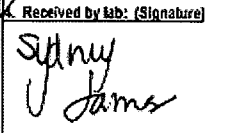
All Analysis performed according to EPA approved methodology when available:
SW 846, Revised December, 1996; EPA 600/4-79-020, Revised March, 1983; Standard Methods, 20th Edition.
Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

Reviewed by: _____
Norma James
President



11701 Interstate 30, Bldg. 1, Ste. 115
 Little Rock, AR 72209
 PHONE: 501-465-3233
 FAX: 501-455-6118

CHAIN OF CUSTODY RECORD

CLIENT INFORMATION				Project Description			Turnaround Time	Preservation Codes:																
Ash Grove Cement Company				Permit Renewal Sample			24 Hour	1. Cool, 4 Degrees Centigrade			4. Thiosulfate for Dechlorination													
4343 Hwy. 108 W				Outfall 002 Resample			48 Hour	2. Sulfuric Acid (H ₂ SO ₄), pH < 2			5. Hydrochloric Acid (HCl)													
Foreman, AR 71836				Reporting Information			72 Hour	3. Nitric Acid (HNO ₃), pH < 2			6. Sodium Hydroxide (NaOH), pH > 12													
Attn: Keith Byerly				Telephone: 870-542-3017			Routine (5 Day)	TEST PARAMETERS						Bottle Type Code G = Glass; P = Plastic V = Vials; A = Amber										
				Fax: 870-542-3026			Preservative Code:	1																
				Email: keith.byerly@ashgrove.com			Bottle Type:	P																
 Sampler(s) Signature				Sharon Randall Sampler(s) Printed																				
Field Number	SAMPLE COLLECTION		Grab	Comp	Number of Bottles	Sample Matrix	SAMPLE IDENTIFICATION/ DESCRIPTION	PPS CU												Arkansas Analytical Work Order Number: 1202218				
	Date/s	Time/s																						
	2/22/2012	1245	X		1	Water	Outfall 002	X																01
	2/22/2012	1245	X		1	Water	Outfall 002 Duplicate	X																02
	2/22/2012	1245	X		1	Water	Outfall 002 Field Blank	X																03
1. Relinquished by: (Signature)			Date/Time		2. Received by: (Signature)			SAMPLE CONDITION UPON RECEIPT IN LAB						REMARKS / SAMPLE COMMENTS										
			2/22/12 1715					1. CUSTODY SEALS: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 2. CONTAINERS CORRECT: <input type="checkbox"/> Yes <input type="checkbox"/> No 3. COC LABELS AGREE: <input type="checkbox"/> Yes <input type="checkbox"/> No 4. PRESERVATION CONFIRMED: <input type="checkbox"/> Yes <input type="checkbox"/> No 5. RECEIVED ON ICE: <input type="checkbox"/> Yes <input type="checkbox"/> No 6. TEMPERATURE ON RECEIPT: 7°C																
3. Relinquished by: (Signature)			Date/Time		4. Received by lab: (Signature)			FOR COMPLETION BY LAB ONLY																
																								

Revision 1
12/1/10

27 February 2012
 Keith Byerly
 Ash Grove Cement Company
 4343 Hwy. 108 W
 Foreman, AR 71836
 Project: Permit Renewal Sample; Outfall 002
 Project Number: Resample
 Date Received: 22-Feb-12 17:15

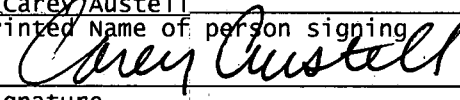
CHAIN OF CUSTODY FORM(S)

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 Inc. 11701 I-30, Bldg 1, Ste 115, Little Rock, AR 72209
(501) 455-3233
3. Is the lab certified by the state of Arkansas? Yes No
4. What are the certification dates?
Issued data _____ Expire date _____
5. Is the laboratory certified for all the parameters?
YES No (Explain)

6. Date and time of samples collected:
2/22/2012 1320 hrs
7. Date and time samples were received in the laboratory:
2/22/2012 17:15 hrs
8. Sample location (Outfall No.): 001
9. Samples collected by:
Name Sydney James
Title Field Technician
Telephone (501) 455-3233

10. I certify under penalty of law that this document and all attachments were prepared under my direction or 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 persons who manage the system, or those persons 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.

<u>Carey Austell</u>	<u>Plant Manager</u>
Printed Name of person signing	Title
	<u>5/21/12</u>
Signature	Date signed

List all attachments to this form:
Laboratory Reports SDG No. 1202219, Outfall 001 and PPS Mercury One SDG No.1202219-01-03

METALS AND CYANIDE	LABORATORY ANALYSIS			REQUIRED MQL (µg/l)
	RESULTS (µg/l)	APPROVED EPA METHOD USED	DETECTION LEVEL ACHIEVED (µg/l)	
1. Antimony (Total), Recoverable	ND	200.7	<60.0	60
2. Arsenic (Total), Recoverable	0.580	3113B	0.580	0.5
3. Beryllium (Total), Recoverable	ND	200.7	<0.5	0.5
4. Cadmium (Total), Recoverable	ND	200.7	<0.5	0.5
5. Chromium (Total), Recoverable	ND	200.7	<10	10
7. Chromium (6+), Dissolved	ND	7196A/35 00-Cr B	<0.010	10
8. Copper (Total), Recoverable	ND	3113B	<0.50	0.5
9. Lead (Total), Recoverable	ND	3113B	<0.5	0.5
10. Mercury (Total), Recoverable	0.00212	1631E	<0.002	0.005
12. Nickel (Total), Recoverable	ND	3113B	<0.5	0.5
13. Selenium (Total), Recoverable	6.05	3113B	<5.0	5
14. Silver (Total), Recoverable	ND	3113B	<0.50	0.5
15. Thallium (Total), Recoverable	ND	279.2	<0.50	0.5
16. Zinc (Total), Recoverable	ND	200.7	<20.0	20
129. Phenols, Total Recoverable	ND	420.1/906 5	<5.0	5
17. Cyanide (Total), Recoverable	ND	4500-CN E/9014	<10.0	10
18. <u>2,3,7,8-Tetrachloro-debenzo-p-dioxin (TCDD) Screen</u>	ND	625 (mod)	<10.0	0.00001

VOLATILE COMPOUNDS	LABORATORY ANALYSIS			REQUIRED MQL ($\mu\text{g}/\text{l}$)
	RESULTS ($\mu\text{g}/\text{l}$)	APPROVED EPA METHOD USED	DETECTION LEVEL ACHIEVED ($\mu\text{g}/\text{l}$)	
19. Acrolein	ND	624	<50.0	50
20. Acrylonitrile	ND	624	<20.0	20
21. Benzene	ND	624	<10.0	10
22. Bromoform	ND	624	<10.0	10
23. Carbon Tetrachloride	ND	624	<2.0	2
24. Chlorobenzene	ND	624	<10.0	10
25. Chlorodibromomethane	ND	624	<10.0	10
26. Chloroethane	ND	624	<50.0	50
27. 2-Chloroethyl vinyl ether	ND	624	<10.0	10
28. Chloroform	ND	624	<10.0	10
29. Dichlorobromomethane	ND	624	<10.0	10
30. 1,1-Dichloroethane	ND	624	<10.0	10
31. 1,2-Dichloroethane	ND	624	<10.0	10
32. 1,1-Dichloroethylene	ND	624	<10.0	10
33. 1,2-Dichloropropane	ND	624	<10.0	10
34. 1,3-Dichloropropylene	ND	624	<10.0	10
35. Ethylbenzene	ND	624	<10.0	10
36. Methyl Bromide [Bromomethane]	ND	624	<50.0	50
37. Methyl chloride [Chloromethane]	ND	624	<50.0	50
38. Methylene chloride	ND	624	<20.0	20
39. 1,1,2,2-Tetrachloroethane	ND	624	<10.0	10
40. Tetrachloroethylene	ND	624	<10.0	10
41. Toluene	ND	624	<10.0	10
42. 1,2-trans-Dichloroethylene	ND	624	<10.0	10
43. 1,1,1-Trichloroethane	ND	624	<10.0	10
44. 1,1,2-Trichloroethane	ND	624	<10.0	10

45.	<i>Trichloroethylene</i>	<i>ND</i>	<i>624</i>	<i><10.0</i>	<i>10</i>
46.	<i>vinyl chloride</i>	<i>ND</i>	<i>624</i>	<i><10.0</i>	<i>10</i>

ACID COMPOUNDS	LABORATORY ANALYSIS			REQUIRED MQL (µg/l)
	RESULTS (µg/l)	APPROVED EPA METHOD USED	DETECTION LEVEL ACHIEVED (µg/l)	
47. 2-Chlorophenol	ND	625 (mod)	<10.0	10
48. 2,4-Dichlorophenol	ND	625 (mod)	<10.0	10
49. 2,4-Dimethylphenol	ND	625 (mod)	<10.0	10
50. 4,6-Dinitro-o-Cresol [2 methyl 4,6-dinitrophenol]	ND	625 (mod)	<50.0	50
51. 2,4-Dinitrophenol	ND	625 (mod)	<50.0	50
52. 2-Nitrophenol	ND	625 (mod)	<20.0	20
53. 4-Nitrophenol	ND	625 (mod)	<50.0	50
54. P-Chloro-m-Cresol [4 chloro-3-methylphenol]	ND	625 (mod)	<10.0	10
55. Pentachlorophenol	ND	625 (mod)	<5.0	5
56. Phenol	ND	625 (mod)	<10.0	10
57. 2,4,6-Trichlorophenol	ND	625 (mod)	<10.0	10

BASE/NEUTRAL COMPOUNDS	LABORATORY ANALYSIS			REQUIRED MQL (µg/l)
	RESULTS (µg/l)	APPROVED EPA METHOD USED	DETECTION LEVEL ACHIEVED (µg/l)	
58. Acenaphthene	ND	625 (mod)	<10.0	10
59. Acenaphthylene	ND	625 (mod)	<10.0	10
60. Anthracene	ND	625 (mod)	<10.0	10
61. Benzidine	ND (E20)	625 (mod)	<50.0	50
62. Benzo(a)anthracene	ND	625 (mod)	<5.0	5
63. Benzo(a)pyrene	ND	625 (mod)	<5.0	5
64. 3,4-Benzofluoranthene	ND	625 (mod)	<10.0	10
65. Benzo(ghi)perylene	ND	625 (mod)	<20.0	20
66. Benzo(k)fluoranthene	ND	625 (mod)	<5.0	5
67. Bis(2-chloroethoxy) methane	ND	625 (mod)	<10.0	10
68. Bis(2-chloroethyl) ether	ND	625 (mod)	<10.0	10
69. Bis(2-chloroisopropyl) ether	ND	625 (mod)	<10.0	10
70. Bis(2-ethylhexyl) phthalate	ND	625 (mod)	<10.0	10
71. 4-Bromophenyl phenyl ether	ND	625 (mod)	<10.0	10
72. Butyl benzyl phthalate	ND	625 (mod)	<10.0	10
73. 2-Chloronaphthalene	ND	625 (mod)	<10.0	10
74. 4-Chlorophenyl phenyl ether	ND	625 (mod)	<10.0	10
75. Chrysene	ND	625 (mod)	<5.0	5
76. Dibenzo (a,h) anthracene	ND	625 (mod)	<5.0	5
77. 1,2-Dichlorobenzene	ND	625 (mod)	<10.0	10
78. 1,3-Dichlorobenzene	ND	625 (mod)	<10.0	10
79. 1,4-Dichlorobenzene	ND	625 (mod)	<10.0	10
80. 3,3'-Dichlorobenzidine	ND	625 (mod)	<5.0	5
81. Diethyl Phthalate	ND	625 (mod)	<10.0	10
82. Dimethyl Phthalate	ND	625 (mod)	<10.0	10

83. Di-n-Butyl Phthalate	ND	625 (mod)	<10.0	10
84. 2,4-Dinitrotoluene	ND	625 (mod)	<10.0	10
85. 2,6-Dinitrotoluene	ND	625 (mod)	<10.0	10
86. Di-n-octyl Phthalate	ND	625 (mod)	<10.0	10

BASE/NEUTRAL COMPOUNDS	LABORATORY ANALYSIS			REQUIRED MQL (µg/l)
	RESULTS (µg/l)	APPROVED EPA METHOD USED	DETECTION LEVEL ACHIEVED (µg/l)	
87. 1,2-Diphenylhydrazine	ND	625 (mod)	<20.0	20
89. Fluorene	ND	625 (mod)	<10.0	10
90. Hexachlorobenzene	ND	625 (mod)	<5.0	5
91. Hexachlorobutadiene	ND	625 (mod)	<10.0	10
92. Hexachlorocyclopentadiene	ND	625 (mod)	<10.0	10
93. Hexachloroethane	ND	625 (mod)	<20.0	20
94. Indeno (1,2,3-cd) pyrene (2,3-o-phenylene pyrene)	ND	625 (mod)	<5.0	5
95. Isophorone	ND	625 (mod)	<10.0	10
96. Naphthalene	ND	625 (mod)	<10.0	10
97. Nitrobenzene	ND	625 (mod)	<10.0	10
98. N-nitrosodimethylamine	ND	625 (mod)	<50.0	50
99. N-nitrosodi-n-propylamine	ND	625 (mod)	<20.0	20
100. N-nitrosodiphenylamine	ND	625 (mod)	<20.0	20
101. Phenanthrene	ND	625 (mod)	<10.0	10
102. Pyrene	ND	625 (mod)	<10.0	10
103. 1,2,4-Trichlorobenzene	ND	625 (mod)	<10.0	10

PESTICIDES	LABORATORY ANALYSIS			REQUIRED MQL (µg/l)
	RESULTS (µg/l)	APPROVED EPA METHOD USED	DETECTION LEVEL ACHIEVED (µg/l)	
104. Aldrin	ND	608	<0.010	0.01
105. Alpha-BHC	ND	608	<0.050	0.05
106. Beta-BHC	ND	608	<0.050	0.05
107. Gamma-BHC	ND	608	<0.050	0.05
108. Delta-BHC	ND	608	<0.050	0.05
109. chlordane	ND	608	<0.20	0.2
110. 4,4'-DDT	ND	608	<0.020	0.02
111. 4,4'-DDE (p,p-DDX)	ND	608	<0.10	0.1
112. 4,4'-DDD 9(p,p-TDE)	ND	608	<0.10	0.1
113. Dieldrin	ND	608	<0.020	0.02
114. Alpha-endosulfan	ND	608	<0.010	0.01
115. Beta-endosulfan	ND	608	<0.020	0.02
116. Endosulfan sulfate	ND	608	<0.10	0.1
117. Endrin	ND	608	<0.020	0.02
118. Endrin aldehyde	ND	608	<0.10	0.1
119. Heptachlor	ND	608	<0.010	0.01
120. Heptachlor epoxide (BHC-hexachlorocyclohexane)	ND	608	<0.010	0.01
130. chlorpyrifos	ND	608	<0.070	0.07
121. PCB-1242	ND	608	<0.20	0.2
122. PCB-1254	ND	608	<0.20	0.2
123. PCB-1221	ND	608	<0.20	0.2
124. PCB-1232	ND	608	<0.20	0.2
125. PCB-1248	ND	608	<0.20	0.2
126. PCB-1260	ND	608	<0.20	0.2
127. PCB-1016	ND	608	<0.20	0.2
128. Toxaphene	ND	608	<0.30	0.3



11701 I-30 Bldg 1, Ste 115 - Little Rock, AR 72209
501-455-3233 Fax 501-455-6118

29 February 2012

Keith Byerly
Ash Grove Cement Company
4343 Hwy. 108 W
Foreman, AR 71836

RE: Permit Renewal Sample; Outfall 001

SDG Number: 1202219

Enclosed are the results of analyses for samples received by the laboratory on 22-Feb-12 17:15. If you have any questions concerning this report, please feel free to contact me.

Sample Receipt Information:

Custody Seals	✓
Containers Correct	✓
COC/Labels Agree	✓
Preservation Confirmed	✓
Received On Ice	✓
Temperature on Receipt	5.0°C

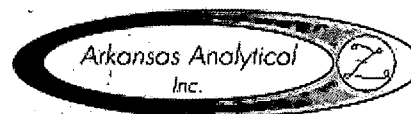
Sincerely,

A handwritten signature in cursive script that reads "Norma James".

Norma James
President

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29 February 2012



Keith Byerly
Ash Grove Cement Company
4343 Hwy. 108 W
Foreman, AR 71836
Project: Permit Renewal Sample; Outfall 001

Date Received: 22-Feb-12 17:15

CASE NARRATIVE

SAMPLE DELIVERY GROUP 1202219:

Qualified results are discussed below:

PPS Acid/Base Neutral Compounds:

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Failure: Benzidine failed to recover within acceptance limits in the MS and/or MSD samples. The recovery was qualified by "%D1" in the quality control section of the final report and Benzidine was qualified as "estimated" (E20) in the parent sample, 1202219-01 (Outfall 001).

Volatiles:

Laboratory Control Spike (LCS) Failure: Acrolein failed to recover within method specified acceptance criteria in the LCS sample. The recovery was qualified by "%D2" in the quality control section of the final report and Acrolein was qualified as "estimated" (E5) in sample 1202219-01 (Outfall 001).

Other: Acrolein failed to recover within method specified criteria in the second source verification of the initial calibration curve. Acrolein was qualified as "estimated" (E5) in sample 1202219-01 and the method blank, LCS, MS, and MSD samples.

Anions:

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Failure: Nitrate, Nitrite, and Sulfate all failed to recover within method specified acceptance limits in the MS and/or MSD samples. The recoveries were qualified by "%D1" in the quality control section of the final report. These analytes were qualified as "estimated" in the parent sample which was NOT a member of this sample delivery group.

Color/pH:

The color value of water is extremely pH-dependent. When reporting a color value the method requires specification of the pH at which the color is determined. The pH was determined out of holding time and was qualified as "estimated" (E2).

Sulfite:

The sulfite result for sample 1202219-01 was qualified as "estimated" (E2) as it was received and analyzed out of holding time. Sulfite is considered a "field" analysis.

29 February 2012



Keith Byerly
Ash Grove Cement Company
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Foreman, AR 71836
Project: Permit Renewal Sample; Outfall 001

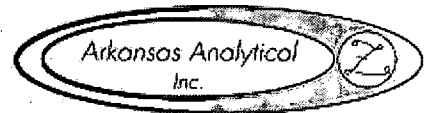
Date Received: 22-Feb-12 17:15

ANALYTICAL RESULTS

Lab Number: 1202219-01
Sample Name: Outfall 001
Date/Time Collected: 2/22/12 13:20
Sample Matrix: Water

Table with columns: Acid Compounds, Base/Neutral Compounds, Units, Result, Qualifier(s), Date/Time Analyzed, Batch, Method. Lists various chemical compounds and their concentrations.

29 February 2012



Keith Byerly
 Ash Grove Cement Company
 4343 Hwy. 108 W
 Foreman, AR 71836
 Project: Permit Renewal Sample; Outfall 001

Date Received: 22-Feb-12 17:15

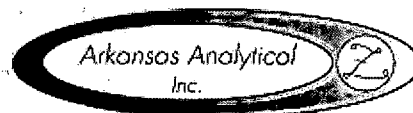
ANALYTICAL RESULTS

Lab Number: 1202219-01
 Sample Name: Outfall 001
 Date/Time Collected: 2/22/12 13:20
 Sample Matrix: Water

<u>Base/Neutral Compounds</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Dibenz[a,h]anthracene	ug/L	< 5.00		2/28/12 17:43	A202309	625 (mod.)
Diethylphthalate	ug/L	< 10.0		2/28/12 17:43	A202309	625 (mod.)
Dimethylphthalate	ug/L	< 10.0		2/28/12 17:43	A202309	625 (mod.)
Di-n-butylphthalate	ug/L	< 10.0		2/28/12 17:43	A202309	625 (mod.)
Di-n-octylphthalate	ug/L	< 10.0		2/28/12 17:43	A202309	625 (mod.)
Fluoranthene	ug/L	< 10.0		2/28/12 17:43	A202309	625 (mod.)
Fluorene	ug/L	< 10.0		2/28/12 17:43	A202309	625 (mod.)
Hexachlorobenzene	ug/L	< 5.00		2/28/12 17:43	A202309	625 (mod.)
Hexachlorobutadiene	ug/L	< 10.0		2/28/12 17:43	A202309	625 (mod.)
Hexachlorocyclopentadiene	ug/L	< 10.0		2/28/12 17:43	A202309	625 (mod.)
Hexachloroethane	ug/L	< 20.0		2/28/12 17:43	A202309	625 (mod.)
Indeno[1,2,3-cd]pyrene	ug/L	< 5.00		2/28/12 17:43	A202309	625 (mod.)
Isophorone	ug/L	< 10.0		2/28/12 17:43	A202309	625 (mod.)
Naphthalene	ug/L	< 10.0		2/28/12 17:43	A202309	625 (mod.)
Nitrobenzene	ug/L	< 10.0		2/28/12 17:43	A202309	625 (mod.)
N-Nitrosodimethylamine	ug/L	< 50.0		2/28/12 17:43	A202309	625 (mod.)
N-Nitroso-di-n-propylamine	ug/L	< 20.0		2/28/12 17:43	A202309	625 (mod.)
N-Nitrosodiphenylamine/diphenylamine	ug/L	< 20.0		2/28/12 17:43	A202309	625 (mod.)
Phenanthrene	ug/L	< 10.0		2/28/12 17:43	A202309	625 (mod.)
Pyrene	ug/L	< 10.0		2/28/12 17:43	A202309	625 (mod.)
2-Fluorobiphenyl [surr]	%	68.9		2/28/12 17:43	A202309	625 (mod.)
Nitrobenzene-d5 [surr]	%	82.0		2/28/12 17:43	A202309	625 (mod.)
Terphenyl-d14 [surr]	%	64.7		2/28/12 17:43	A202309	625 (mod.)
<u>Anions</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Nitrate + Nitrite	mg/L	< 1.00		2/23/12 9:59	[CALC]	300.0/9056A
Bromide	mg/L	< 0.500		2/23/12 9:59	A202272	300.0/9056A
Fluoride	mg/L	0.527		2/23/12 9:59	A202272	300.0/9056A
Sulfate as SO4	mg/L	106		2/23/12 12:58	A202272	300.0/9056A
<u>Pesticides/PCBs</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Aldrin	ug/L	< 0.010		2/23/12 13:06	A202280	608
alpha-BHC	ug/L	< 0.050		2/23/12 13:06	A202280	608
beta-BHC	ug/L	< 0.050		2/23/12 13:06	A202280	608
gamma-BHC (Lindane)	ug/L	< 0.050		2/23/12 13:06	A202280	608
delta-BHC	ug/L	< 0.050		2/23/12 13:06	A202280	608
Chlordane	ug/L	< 0.200		2/23/12 13:06	A202280	608
4,4'-DDT	ug/L	< 0.020		2/23/12 13:06	A202280	608
4,4'-DDE	ug/L	< 0.100		2/23/12 13:06	A202280	608
4,4'-DDD	ug/L	< 0.100		2/23/12 13:06	A202280	608
Dieldrin	ug/L	< 0.020		2/23/12 13:06	A202280	608
Endosulfan I	ug/L	< 0.010		2/23/12 13:06	A202280	608
Endosulfan II	ug/L	< 0.020		2/23/12 13:06	A202280	608
Endosulfan sulfate	ug/L	< 0.100		2/23/12 13:06	A202280	608

29 February 2012

Keith Byerly
 Ash Grove Cement Company
 4343 Hwy. 108 W
 Foreman, AR 71836
 Project: Permit Renewal Sample; Outfall 001



Date Received: 22-Feb-12 17:15

ANALYTICAL RESULTS

Lab Number: 1202219-01
 Sample Name: Outfall 001
 Date/Time Collected: 2/22/12 13:20
 Sample Matrix: Water

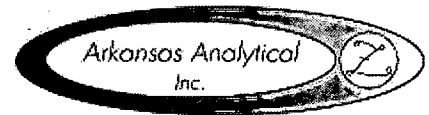
<u>Pesticides/PCBs</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Endrin	ug/L	< 0.020		2/23/12 13:06	A202280	608
Endrin aldehyde	ug/L	< 0.100		2/23/12 13:06	A202280	608
Heptachlor	ug/L	< 0.010		2/23/12 13:06	A202280	608
Heptachlor epoxide	ug/L	< 0.010		2/23/12 13:06	A202280	608
Chlorpyrifos	ug/L	< 0.070		2/23/12 13:06	A202280	608
Aroclor-1242	ug/L	< 0.200		2/23/12 13:06	A202280	608
Aroclor-1254	ug/L	< 0.200		2/23/12 13:06	A202280	608
Aroclor-1221	ug/L	< 0.200		2/23/12 13:06	A202280	608
Aroclor-1232	ug/L	< 0.200		2/23/12 13:06	A202280	608
Aroclor-1248	ug/L	< 0.200		2/23/12 13:06	A202280	608
Aroclor-1260	ug/L	< 0.200		2/23/12 13:06	A202280	608
Aroclor-1016	ug/L	< 0.200		2/23/12 13:06	A202280	608
Toxaphene	ug/L	< 0.300		2/23/12 13:06	A202280	608
TCMX [surr]	%	66.1		2/23/12 13:06	A202280	608
DCBP [surr]	%	71.2		2/23/12 13:06	A202280	608

<u>PPS Metals</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Antimony	ug/L	< 60.0		2/24/12 12:11	A202302	200.7
Arsenic	ug/L	0.580		2/28/12 10:34	A202303	3113B
Copper	ug/L	< 0.500		2/24/12 8:44	A202303	3113B
Lead	ug/L	< 0.500		2/27/12 8:08	A202303	3113B
Nickel	ug/L	< 0.500		2/27/12 13:05	A202303	3113B
Selenium	ug/L	6.05		2/29/12 15:25	A202303	3113B
Silver	ug/L	< 0.500		2/28/12 14:11	A202303	3113B
Thallium	ug/L	< 0.500		2/29/12 11:23	A202303	279.2
Beryllium	ug/L	< 0.500		2/24/12 12:11	A202302	200.7
Cadmium	ug/L	< 0.500		2/24/12 12:11	A202302	200.7
Chromium	ug/L	< 10.0		2/24/12 12:11	A202302	200.7
Zinc	ug/L	< 20.0		2/24/12 12:11	A202302	200.7

<u>Total Metals</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Aluminum	mg/L	0.0326		2/24/12 12:11	A202302	200.7
Barium	mg/L	0.023		2/24/12 12:11	A202302	200.7
Boron	mg/L	0.117		2/24/12 12:11	A202302	200.7
Cobalt	mg/L	< 0.010		2/24/12 12:11	A202302	200.7
Hexavalent Chromium	mg/L	< 0.010		2/23/12 10:30	A202289	7196A/3500-Cr B
Iron	mg/L	< 0.0350		2/24/12 12:11	A202302	200.7
Magnesium	mg/L	3.17		2/24/12 12:11	A202302	200.7
Manganese	mg/L	< 0.0100		2/24/12 12:11	A202302	200.7
Molybdenum	mg/L	< 0.0300		2/24/12 12:11	A202302	200.7
Tin	mg/L	< 0.0400		2/24/12 12:11	A202302	200.7
Titanium	mg/L	< 0.0500		2/24/12 12:11	A202302	200.7

<u>Volatiles</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
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29 February 2012



Keith Byerly
Ash Grove Cement Company
4343 Hwy. 108 W
Foreman, AR 71836
Project: Permit Renewal Sample; Outfall 001

Date Received: 22-Feb-12 17:15

ANALYTICAL RESULTS

Lab Number: 1202219-01
Sample Name: Outfall 001
Date/Time Collected: 2/22/12 13:20
Sample Matrix: Water

<u>Volatiles</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
1,1,1-Trichloroethane	ug/L	< 10.0		2/23/12 12:57	A202287	624
1,1,2,2-Tetrachloroethane	ug/L	< 10.0		2/23/12 12:57	A202287	624
1,1,2-Trichloroethane	ug/L	< 10.0		2/23/12 12:57	A202287	624
1,1-Dichloroethane	ug/L	< 10.0		2/23/12 12:57	A202287	624
1,1-Dichloroethene	ug/L	< 10.0		2/23/12 12:57	A202287	624
1,2-Dichloroethane	ug/L	< 10.0		2/23/12 12:57	A202287	624
1,2-Dichloropropane	ug/L	< 10.0		2/23/12 12:57	A202287	624
2-Chloroethyl vinyl ether	ug/L	< 10.0		2/23/12 12:57	A202287	624
Acrolein	ug/L	< 50.0		2/23/12 12:57	A202287	624
Acrylonitrile	ug/L	< 20.0		2/23/12 12:57	A202287	624
Benzene	ug/L	< 10.0		2/23/12 12:57	A202287	624
Bromodichloromethane	ug/L	< 10.0		2/23/12 12:57	A202287	624
Bromoform	ug/L	< 10.0		2/23/12 12:57	A202287	624
Bromomethane	ug/L	< 50.0		2/23/12 12:57	A202287	624
Carbon tetrachloride	ug/L	< 2.00		2/23/12 12:57	A202287	624
Chlorobenzene	ug/L	< 10.0		2/23/12 12:57	A202287	624
Chlorodibromomethane	ug/L	< 10.0		2/23/12 12:57	A202287	624
Chloroethane	ug/L	< 50.0		2/23/12 12:57	A202287	624
Chloroform	ug/L	< 10.0		2/23/12 12:57	A202287	624
Chloromethane	ug/L	< 50.0		2/23/12 12:57	A202287	624
cis-1,3-Dichloropropene	ug/L	< 10.0		2/23/12 12:57	A202287	624
Ethylbenzene	ug/L	< 10.0		2/23/12 12:57	A202287	624
Methylene chloride	ug/L	< 20.0		2/23/12 12:57	A202287	624
Tetrachloroethene	ug/L	< 10.0		2/23/12 12:57	A202287	624
Toluene	ug/L	< 10.0		2/23/12 12:57	A202287	624
trans-1,2-Dichloroethene	ug/L	< 10.0		2/23/12 12:57	A202287	624
Trichloroethene	ug/L	< 10.0		2/23/12 12:57	A202287	624
Vinylchloride	ug/L	< 10.0		2/23/12 12:57	A202287	624
Trichlorofluoromethane	ug/L	< 50.0		2/23/12 12:57	A202287	624
Bis Chloromethyl ether	ug/L	< 50.0		2/23/12 12:57	A202287	624
Dichlorodifluoromethane	ug/L	< 50.0		2/23/12 12:57	A202287	624
4-Bromofluorobenzene [surr]	%	95.2		2/23/12 12:57	A202287	624
1,2-Dichloroethane-d4 [surr]	%	105		2/23/12 12:57	A202287	624
Toluene-d8 [surr]	%	98.6		2/23/12 12:57	A202287	624
<u>Wet Chemistry</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Nitrogen, Total Organic	mg/L	1.71		2/27/12 8:14	[CALC]	4500-Norg
Ammonia as N	mg/L	< 0.50		2/27/12 8:14	A202315	4500-NH3D
BOD-5	mg/L	< 2.00		2/23/12 10:55	A202321	5210B
Chlorine Residual	mg/L	0.14		2/22/12 13:07	A202360	4500-Cl G
COD	mg/L	28.0		2/23/12 15:56	A202298	410.4
Color	Color Units	10.0		2/23/12 9:05	A202316	2120 B
Cyanide (total)	mg/L	< 0.010		2/28/12 10:16	A202338	4500-CN E/9014

29 February 2012



Keith Byerly
Ash Grove Cement Company
4343 Hwy. 108 W
Foreman, AR 71836
Project: Permit Renewal Sample; Outfall 001

Date Received: 22-Feb-12 17:15

ANALYTICAL RESULTS

Lab Number: 1202219-01
Sample Name: Outfall 001
Date/Time Collected: 2/22/12 13:20
Sample Matrix: Water

Wet Chemistry	Units	Result	Qualifier(s)	Date/Time Analyzed	Batch	Method
Oil and Grease	mg/L	< 2.5		2/28/12 9:30	A202336	1664A
pH	S.U.	8.35		2/22/12 13:20	A202358	150.2
pH @ which color was measured	S.U.	8.68	E2	2/23/12 9:05	A202317	150.2/9040C
Phenolics	mg/L	< 0.005		2/28/12 11:30	A202350	420.1/9065
Sulfide	mg/L	< 0.100		2/28/12 9:45	A202356	4500S2-D
Sulfite	mg/L	< 4.00	E2	2/23/12 8:15	A202318	4500-SO3 B
Surfactants	mg/L	< 0.100		2/23/12 15:37	A202297	5540C
TDS	mg/L	340		2/24/12 12:10	A202326	2540C
Temperature	°C	17.6		2/22/12 13:20	A202359	2550B
TOC	mg/L	5.30		2/23/12 10:41	A202291	5310B/9060A
Total Phosphorus	mg/L	0.100		2/27/12 13:37	A202329	4500-P B5,E
TSS	mg/L	2.0		2/23/12 12:55	A202281	2540D
Fecal Coliforms	CFU/100 ml	< 1		2/22/12 17:25	A202307	9222D

ANALYTICAL RESULTS

Lab Number: 1202219-02
Sample Name: Outfall 001 Duplicate
Date/Time Collected: 2/22/12 13:20
Sample Matrix: Water

PPS Metals	Units	Result	Qualifier(s)	Date/Time Analyzed	Batch	Method
Antimony	ug/L	< 60.0		2/24/12 12:15	A202302	200.7
Arsenic	ug/L	< 0.500		2/28/12 10:34	A202303	3113B
Copper	ug/L	0.720		2/24/12 8:44	A202303	3113B
Lead	ug/L	< 0.500		2/27/12 8:08	A202303	3113B
Nickel	ug/L	0.500		2/27/12 13:05	A202303	3113B
Selenium	ug/L	7.12		2/29/12 15:25	A202303	3113B
Silver	ug/L	< 0.500		2/28/12 14:11	A202303	3113B
Thallium	ug/L	< 0.500		2/29/12 11:23	A202303	279.2
Beryllium	ug/L	< 0.500		2/24/12 12:15	A202302	200.7
Cadmium	ug/L	< 0.500		2/24/12 12:15	A202302	200.7
Chromium	ug/L	< 10.0		2/24/12 12:15	A202302	200.7
Zinc	ug/L	< 20.0		2/24/12 12:15	A202302	200.7
Total Metals	Units	Result	Qualifier(s)	Date/Time Analyzed	Batch	Method
Hexavalent Chromium	mg/L	< 0.010		2/23/12 10:30	A202289	7196A/3500-Cr B

29 February 2012

Keith Byerly
Ash Grove Cement Company
4343 Hwy. 108 W
Foreman, AR 71836
Project: Permit Renewal Sample; Outfall 001



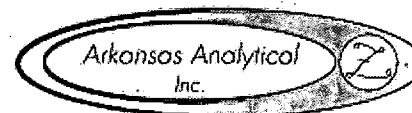
Date Received: 22-Feb-12 17:15

ANALYTICAL RESULTS

Lab Number: 1202219-03
Sample Name: Outfall 001 Field Blank
Date/Time Collected: 2/22/12 13:20
Sample Matrix: Water

<u>PPS Metals</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Antimony	ug/L	< 60.0		2/24/12 12:35	A202302	200.7
Arsenic	ug/L	< 0.500		2/28/12 10:34	A202303	3113B
Copper	ug/L	< 0.500		2/24/12 8:44	A202303	3113B
Lead	ug/L	< 0.500		2/27/12 8:08	A202303	3113B
Nickel	ug/L	< 0.500		2/27/12 13:05	A202303	3113B
Selenium	ug/L	< 5.00		2/29/12 15:25	A202303	3113B
Silver	ug/L	< 0.500		2/28/12 14:11	A202303	3113B
Thallium	ug/L	< 0.500		2/29/12 11:23	A202303	279.2
Beryllium	ug/L	< 0.500		2/24/12 12:35	A202302	200.7
Cadmium	ug/L	< 0.500		2/24/12 12:35	A202302	200.7
Chromium	ug/L	< 10.0		2/24/12 12:35	A202302	200.7
Zinc	ug/L	< 20.0		2/24/12 12:35	A202302	200.7
<u>Total Metals</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Hexavalent Chromium	mg/L	< 0.010		2/23/12 10:30	A202289	7196A/3500-Cr B

29 February 2012



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 4343 Hwy. 108 W
 Foreman, AR 71836
 Project: Permit Renewal Sample; Outfall 001

Date Received: 22-Feb-12 17:15

QUALITY CONTROL RESULTS

Anions -- Batch: A202272 (Water)

Prepared: 22-Feb-12 13:30 By: MG -- Analyzed: 22-Feb-12 15:12 By: MG

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Bromide	<0.500 mg/L	94.4% / NA	98.6% / 98.0%		0.529%	
Fluoride	<0.500 mg/L	101% / NA	103% / 103%		0.117%	
Nitrate as N	<0.500 mg/L	98.0% / NA	113% / 114%		0.340%	%D1
Nitrite as N	<0.500 mg/L	90.0% / NA	89.7% / 89.6%		0.0498%	%D1
Sulfate as SO4	<0.500 mg/L	102% / NA	121% / 120%		0.429%	%D1

Pesticides/PCBs -- Batch: A202280 (Water)

Prepared: 23-Feb-12 08:15 By: TB -- Analyzed: 23-Feb-12 12:52 By: TB

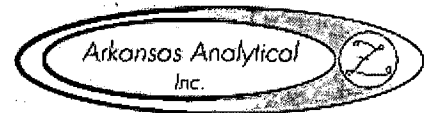
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
4,4'-DDD	<0.100 ug/L	76.3% / 100%	105% / NA		27.0%	
4,4'-DDE	<0.100 ug/L	72.1% / 90.6%	95.0% / NA		22.8%	
4,4'-DDT	<0.020 ug/L	76.5% / 100%	105% / NA		27.1%	
Aldrin	<0.010 ug/L	83.0% / 91.4%	100% / NA		9.63%	
alpha-BHC	<0.050 ug/L	75.1% / 80.4%	86.0% / NA		6.86%	
beta-BHC	<0.050 ug/L	93.1% / 93.7%	95.3% / NA		0.609%	
delta-BHC	<0.050 ug/L	75.7% / 81.2%	80.1% / NA		7.04%	
Dieldrin	<0.020 ug/L	76.8% / 93.7%	97.8% / NA		19.8%	
Endosulfan I	<0.010 ug/L	77.8% / 91.9%	93.7% / NA		16.7%	
Endosulfan II	<0.020 ug/L	71.2% / 91.5%	96.8% / NA		25.0%	
Endosulfan sulfate	<0.100 ug/L	79.1% / 98.2%	112% / NA		21.6%	
Endrin	<0.020 ug/L	77.8% / 95.1%	98.5% / NA		19.9%	
Endrin aldehyde	<0.100 ug/L	76.3% / 84.0%	85.1% / NA		9.57%	
gamma-BHC (Lindane)	<0.050 ug/L	76.1% / 82.0%	84.1% / NA		7.37%	
Heptachlor	<0.010 ug/L	76.4% / 80.0%	84.7% / NA		4.56%	
Heptachlor epoxide	<0.010 ug/L	76.8% / 88.7%	95.7% / NA		14.5%	
DCBP [surr]	79.5 %	47.7% / 65.6%	105% / NA		NA	
TCMX [surr]	80.7 %	64.0% / 69.5%	77.9% / NA		NA	

Wet Chemistry -- Batch: A202281 (Water)

Prepared: 22-Feb-12 13:07 By: AP -- Analyzed: 22-Feb-12 13:07 By: Ana

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
TSS	<1.0 mg/L	94.0% / 96.0%	NA / NA		2.11%	

29 February 2012



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4343 Hwy. 108 W
Foreman, AR 71836
Project: Permit Renewal Sample; Outfall 001

Date Received: 22-Feb-12 17:15

QUALITY CONTROL RESULTS

Volatiles -- Batch: A202287 (Water)

Prepared: 23-Feb-12 09:44 By: KR -- Analyzed: 23-Feb-12 14:04 By: KR

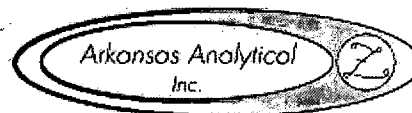
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
1,1,1-Trichloroethane	<10.0 ug/L	101% / NA	98.5% / 95.0%		3.61%	
1,1,2,2-Tetrachloroethane	<10.0 ug/L	115% / NA	104% / 108%		3.93%	
1,1,2-Trichloroethane	<10.0 ug/L	112% / NA	105% / 114%		8.75%	
1,1-Dichloroethane	<10.0 ug/L	106% / NA	98.2% / 100%		2.30%	
1,1-Dichloroethene	<10.0 ug/L	100% / NA	93.8% / 96.8%		3.19%	
1,2-Dibromoethane	<2.00 ug/L	95.4% / NA	102% / 104%		1.56%	
1,2-Dichlorobenzene	<5.00 ug/L	105% / NA	97.3% / 94.5%		2.97%	
1,2-Dichloroethane	<10.0 ug/L	107% / NA	108% / 104%		3.58%	
1,2-Dichloropropane	<10.0 ug/L	103% / NA	101% / 102%		0.892%	
1,3-Dichlorobenzene	<5.00 ug/L	99.8% / NA	95.8% / 98.9%		3.19%	
1,4-Dichlorobenzene	<5.00 ug/L	104% / NA	101% / 99.4%		2.03%	
2-Butanone	<50.0 ug/L	103% / NA	91.3% / 103%		12.1%	
2-Chloroethyl vinyl ether	<10.0 ug/L	105% / NA	96.1% / 94.1%		2.14%	
Acrolein	<50.0 ug/L	138% / NA	118% / 127%		7.20%	%D2, E5
Acrylonitrile	<20.0 ug/L	108% / NA	101% / 107%		5.61%	
Benzene	<10.0 ug/L	100% / NA	101% / 100%		0.433%	
Bromodichloromethane	<10.0 ug/L	104% / NA	99.7% / 103%		3.49%	
Bromoform	<10.0 ug/L	103% / NA	99.3% / 97.0%		2.36%	
Bromomethane	<50.0 ug/L	97.4% / NA	109% / 99.2%		9.53%	
Carbon tetrachloride	<2.00 ug/L	102% / NA	99.8% / 90.3%		10.0%	
Chlorobenzene	<10.0 ug/L	101% / NA	96.6% / 98.1%		1.57%	
Chlorodibromomethane	<10.0 ug/L	89.1% / NA	105% / 102%		2.93%	
Chloroethane	<50.0 ug/L	91.4% / NA	87.9% / 87.9%		0.0853%	
Chloroform	<10.0 ug/L	97.9% / NA	101% / 97.2%		3.84%	
Chloromethane	<50.0 ug/L	91.2% / NA	88.3% / 76.2%		14.7%	
cis-1,3-Dichloropropene	<10.0 ug/L	105% / NA	101% / 102%		0.561%	
Dichlorodifluoromethane	<50.0 ug/L	80.0% / NA	82.2% / 75.6%		8.31%	
Ethylbenzene	<10.0 ug/L	103% / NA	101% / 108%		6.45%	
Methylene chloride	<20.0 ug/L	95.5% / NA	99.8% / 97.4%		2.43%	
Tetrachloroethene	<10.0 ug/L	105% / NA	103% / 109%		5.56%	
Toluene	<10.0 ug/L	94.9% / NA	103% / 106%		3.51%	
trans-1,2-Dichloroethene	<10.0 ug/L	102% / NA	98.9% / 102%		3.49%	
trans-1,3-Dichloropropene	<10.0 ug/L	109% / NA	105% / 113%		7.16%	
Trichloroethene	<10.0 ug/L	93.0% / NA	87.1% / 90.7%		4.06%	
Trichlorofluoromethane	<50.0 ug/L	87.9% / NA	90.4% / 89.0%		1.56%	
Vinyl chloride	<10.0 ug/L	98.2% / NA	100% / 91.2%		9.55%	
1,2-Dichloroethane-d4 [surr]	100 %	102% / NA	104% / 108%		NA	
4-Bromofluorobenzene [surr]	102 %	104% / NA	95.8% / 101%		NA	
Toluene-d8 [surr]	108 %	101% / NA	97.5% / 113%		NA	

Total Metals -- Batch: A202289 (Water)

Prepared: 23-Feb-12 09:25 By: MH -- Analyzed: 23-Feb-12 10:30 By: MH

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Hexavalent Chromium	<0.010 mg/L	82.0% / NA	78.0% / 94.0%		18.6%	

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QUALITY CONTROL RESULTS

Wet Chemistry -- Batch: A202291 (Water)

Prepared: 23-Feb-12 10:41 By: SB -- Analyzed: 23-Feb-12 10:41 By: SB

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
TOC	<1.00 mg/L	96.0% / NA	98.0% / 94.2%		1.68%	

Wet Chemistry -- Batch: A202297 (Water)

Prepared: 23-Feb-12 15:34 By: SB -- Analyzed: 23-Feb-12 15:37 By: SB

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Surfactants	<0.100 mg/L	92.8% / 101%	98.3% / NA		8.26%	

Wet Chemistry -- Batch: A202298 (Water)

Prepared: 23-Feb-12 15:56 By: SB -- Analyzed: 23-Feb-12 15:56 By: SB

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
COD	<10.0 mg/L	98.1% / NA	122% / 112%		7.08%	

Total Metals -- Batch: A202302 (Water)

Prepared: 24-Feb-12 08:25 By: TC -- Analyzed: 24-Feb-12 14:45 By: TC

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Aluminum	<0.0300 mg/L	99.4% / NA	82.2% / 82.8%		0.610%	
Antimony	<60.0 ug/L	106% / NA	110% / 111%		0.810%	
Barium	<0.005 mg/L	99.9% / NA	91.0% / 91.4%		0.416%	
Beryllium	<0.500 ug/L	96.9% / NA	101% / 101%		0.347%	
Boron	<0.100 mg/L	96.4% / NA	114% / 104%		0.929%	
Cadmium	<0.500 ug/L	102% / NA	102% / 102%		0.543%	
Chromium	<10.0 ug/L	104% / NA	102% / 104%		0.940%	
Cobalt	<0.010 mg/L	109% / NA	105% / 105%		0.224%	
Iron	<0.0350 mg/L	101% / NA	93.7% / 94.4%		0.655%	
Magnesium	<0.100 mg/L	93.5% / NA	90.0% / 92.5%		1.70%	
Manganese	<0.0100 mg/L	98.5% / NA	93.6% / 94.1%		0.545%	
Molybdenum	<0.0300 mg/L	106% / NA	107% / 108%		0.902%	
Tin	<0.0400 mg/L	101% / NA	93.6% / 95.0%		1.37%	
Titanium	<0.0500 mg/L	103% / NA	102% / 102%		0.263%	
Zinc	<20.0 ug/L	100% / NA	114% / 103%		9.94%	

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QUALITY CONTROL RESULTS

PPS Metals -- Batch: A202303 (Water)

Prepared: 24-Feb-12 08:10 By: MH -- Analyzed: 28-Feb-12 10:34 By: MH

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
Arsenic	<0.500 ug/L	119% / NA	166% / 182%		9.20%	%D1
Copper	<0.500 ug/L	104% / NA	112% / 106%		3.98%	
Lead	<0.500 ug/L	93.5% / NA	121% / 110%		9.52%	
Nickel	<0.500 ug/L	104% / NA	170% / 153%		10.2%	
Selenium	<5.00 ug/L	103% / NA	118% / 110%		7.17%	
Silver	<0.500 ug/L	99.0% / NA	102% / 92.5%		9.77%	
Thallium	<0.500 ug/L	87.5% / NA	MBI / MBI		48.3%	D1, MBI

Wet Chemistry -- Batch: A202307 (Water)

Prepared: 22-Feb-12 17:25 By: AP -- Analyzed: 22-Feb-12 17:25 By: AP

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
Fecal Coliforms	<1 CFU/100 ml	Pass / NA	NA / NA		NA	

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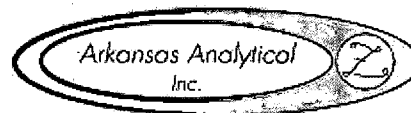
QUALITY CONTROL RESULTS

Base/Neutral Compounds -- Batch: A202309 (Water)

Prepared: 24-Feb-12 12:03 By: CT -- Analyzed: 28-Feb-12 17:22 By: TB

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
1,2,4-Trichlorobenzene	<10.0 ug/L	57.7% / NA	63.9% / 70.0%		9.17%	
1,2-Dichlorobenzene	<10.0 ug/L	53.2% / NA	57.9% / 71.3%		20.8%	
1,2-Diphenyl Hydrazine	<20.0 ug/L	105% / NA	96.2% / 102%		5.73%	
1,3-Dichlorobenzene	<10.0 ug/L	51.3% / NA	55.0% / 68.6%		22.0%	
1,4-Dichlorobenzene	<10.0 ug/L	54.6% / NA	57.0% / 72.3%		23.6%	
2,4,6-Trichlorophenol	<10.0 ug/L	63.3% / NA	69.5% / 65.8%		5.45%	
2,4-Dichlorophenol	<10.0 ug/L	73.2% / NA	81.0% / 80.5%		0.557%	
2,4-Dimethylphenol	<10.0 ug/L	79.5% / NA	74.8% / 79.5%		6.06%	
2,4-Dinitrophenol	<50.0 ug/L	82.5% / NA	97.4% / 97.2%		0.195%	
2,4-Dinitrotoluene	<10.0 ug/L	91.2% / NA	96.1% / 97.9%		1.84%	
2,6-Dinitrotoluene	<10.0 ug/L	94.7% / NA	92.8% / 93.3%		0.462%	
2-Chloronaphthalene	<10.0 ug/L	73.2% / NA	78.6% / 75.7%		3.72%	
2-Chlorophenol	<10.0 ug/L	80.0% / NA	76.3% / 91.1%		17.7%	
2-Methyl-4,6-dinitrophenol	<50.0 ug/L	94.6% / NA	105% / 103%		1.16%	
2-Nitrophenol	<20.0 ug/L	74.9% / NA	81.6% / 84.1%		3.00%	
3,3'-Dichlorobenzidine	<5.00 ug/L	114% / NA	111% / 114%		1.92%	
4-Bromophenyl-phenylether	<10.0 ug/L	94.1% / NA	91.8% / 88.1%		4.08%	
4-Chloro-3-methylphenol	<10.0 ug/L	102% / NA	99.8% / 105%		5.42%	
4-Chlorophenyl-phenylether	<10.0 ug/L	74.6% / NA	83.9% / 86.6%		3.24%	
4-Nitrophenol	<50.0 ug/L	76.1% / NA	63.3% / 58.1%		7.91%	
Acenaphthene	<10.0 ug/L	80.8% / NA	86.7% / 93.6%		7.63%	
Acenaphthylene	<10.0 ug/L	78.6% / NA	84.6% / 91.5%		7.84%	
Anthracene	<10.0 ug/L	97.3% / NA	99.1% / 91.9%		7.53%	
Benzo(a)anthracene	<50.0 ug/L	98.9% / NA	85.1% / 87.9%		3.16%	%D1
Benzo(a)anthracene	<5.00 ug/L	97.5% / NA	98.1% / 107%		8.46%	
Benzo[a]pyrene	<5.00 ug/L	99.5% / NA	106% / 96.1%		9.80%	
Benzo[b]fluoranthene	<10.0 ug/L	101% / NA	103% / 92.4%		10.7%	
Benzo[g,h,i]perylene	<20.0 ug/L	71.9% / NA	76.8% / 75.8%		1.31%	
Benzo[k]fluoranthene	<5.00 ug/L	96.2% / NA	107% / 97.1%		9.71%	
Bis Chloromethyl ether	<20.0 ug/L	NA / NA	NA / NA		NA	
Bis(2-chloroethoxy)methane	<10.0 ug/L	76.6% / NA	83.9% / 86.1%		2.56%	
Bis(2-chloroethyl)ether	<10.0 ug/L	75.6% / NA	75.5% / 90.4%		18.0%	
Bis(2-chloroisopropyl)ether	<10.0 ug/L	76.4% / NA	79.2% / 96.4%		19.6%	
Bis(2-ethylhexyl)phthalate	<10.0 ug/L	109% / NA	113% / 108%		5.25%	
Butylbenzylphthalate	<10.0 ug/L	97.0% / NA	102% / 108%		6.31%	
Chrysene	<5.00 ug/L	93.6% / NA	97.7% / 92.1%		5.83%	
Dibenz[a,h]anthracene	<5.00 ug/L	80.0% / NA	89.4% / 94.2%		5.28%	
Diethylphthalate	<10.0 ug/L	87.5% / NA	93.3% / 94.5%		1.22%	
Dimethylphthalate	<10.0 ug/L	88.2% / NA	91.3% / 91.7%		0.432%	
Di-n-butylphthalate	<10.0 ug/L	95.9% / NA	100% / 94.5%		5.69%	
Di-n-octylphthalate	<10.0 ug/L	95.0% / NA	103% / 96.6%		6.65%	
Fluoranthene	<10.0 ug/L	NA / NA	NA / NA		NA	
Fluoranthene	<10.0 ug/L	102% / NA	103% / 100%		2.98%	
Fluorene	<10.0 ug/L	84.8% / NA	84.9% / 84.5%		0.461%	
Hexachlorobenzene	<5.00 ug/L	101% / NA	101% / 102%		1.47%	
Hexachlorobutadiene	<10.0 ug/L	55.7% / NA	61.0% / 65.8%		7.55%	
Hexachlorocyclopentadiene	<10.0 ug/L	60.8% / NA	67.0% / 81.4%		19.4%	
Hexachloroethane	<20.0 ug/L	54.6% / NA	59.1% / 69.0%		15.5%	

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QUALITY CONTROL RESULTS

Base/Neutral Compounds -- Batch: A202309 (Water)

Prepared: 24-Feb-12 12:03 By: CT -- Analyzed: 28-Feb-12 17:22 By: TB

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Indeno[1,2,3-cd]pyrene	<5.00 ug/L	94.0% / NA	105% / 94.4%		10.9%	
Isophorone	<10.0 ug/L	78.7% / NA	84.9% / 82.0%		3.54%	
Naphthalene	<10.0 ug/L	64.2% / NA	69.6% / 73.5%		5.48%	
Nitrobenzene	<10.0 ug/L	75.9% / NA	77.4% / 81.1%		4.69%	
N-Nitrosodimethylamine	<50.0 ug/L	48.2% / NA	49.2% / 54.8%		10.9%	
N-Nitroso-di-n-propylamine	<20.0 ug/L	93.8% / NA	88.8% / 95.9%		7.66%	
N-Nitrosodiphenylamine/diphenylamine	<20.0 ug/L	97.2% / NA	95.6% / 93.8%		1.99%	
Pentachlorophenol	<5.00 ug/L	108% / NA	109% / 107%		1.45%	
Phenanthrene	<10.0 ug/L	100% / NA	97.8% / 99.5%		1.79%	
Phenol	<10.0 ug/L	45.1% / NA	52.0% / 50.5%		2.98%	
Pyrene	<10.0 ug/L	91.8% / NA	90.2% / 95.7%		5.90%	
2,4,6-Tribromophenol [surr]	86.0 %	97.1% / NA	102% / 101%		NA	
2-Fluorobiphenyl [surr]	67.8 %	54.3% / NA	64.2% / 70.7%		NA	
2-Fluorophenol [surr]	49.1 %	51.2% / NA	48.4% / 59.6%		NA	
Nitrobenzene-d5 [surr]	75.3 %	61.7% / NA	66.7% / 71.2%		NA	
Phenol-d5 [surr]	37.1 %	42.5% / NA	40.6% / 48.1%		NA	
Terphenyl-d14 [surr]	56.7 %	76.1% / NA	77.3% / 71.8%		NA	

Wet Chemistry -- Batch: A202314 (Water)

Prepared: 24-Feb-12 09:00 By: AP -- Analyzed: 24-Feb-12 09:00 By: AP

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
TKN	<0.50 mg/L	105% / NA	112% / 90.0%		20.6%	

Wet Chemistry -- Batch: A202315 (Water)

Prepared: 24-Feb-12 10:55 By: AP -- Analyzed: 27-Feb-12 08:14 By: AP

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Ammonia as N	<0.50 mg/L	106% / NA	109% / 110%		0.405%	

Wet Chemistry -- Batch: A202316 (Water)

Prepared: 23-Feb-12 09:05 By: AP -- Analyzed: 23-Feb-12 09:05 By: AP

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Color	<5.00 Color Units	NA / NA	NA / NA	10.0 Color Units	0.00%	

Wet Chemistry -- Batch: A202317 (Water)

Prepared: 23-Feb-12 09:05 By: AP -- Analyzed: 23-Feb-12 09:05 By: AP

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
pH @ which color was measured	NA	NA / NA	NA / NA		0.00%	

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QUALITY CONTROL RESULTS

Wet Chemistry -- Batch: A202318 (Water)

Prepared: 23-Feb-12 08:15 By: AP -- Analyzed: 23-Feb-12 08:15 By: AP

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
Sulfite	<4.00 mg/L	97.0% / 100%	NA / NA		3.05%	

Wet Chemistry -- Batch: A202321 (Water)

Prepared: 23-Feb-12 10:55 By: KP -- Analyzed: 23-Feb-12 10:55 By: KP

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
BOD-5	<2.00 mg/L	91.9% / 92.9%	NA / NA		1.09%	

Wet Chemistry -- Batch: A202326 (Water)

Prepared: 24-Feb-12 12:10 By: AP -- Analyzed: 24-Feb-12 12:10 By: AP

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
TDS	<1.0 mg/L	98.0% / 87.0%	NA / NA		11.9%	D1

Wet Chemistry -- Batch: A202329 (Water)

Prepared: 27-Feb-12 08:15 By: KP -- Analyzed: 27-Feb-12 13:37 By: KP

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
Total Phosphorus	<0.020 mg/L	100% / NA	101% / 102%		0.758%	

Wet Chemistry -- Batch: A202336 (Water)

Prepared: 28-Feb-12 09:30 By: SB -- Analyzed: 28-Feb-12 09:30 By: AT

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
Oil and Grease	<2.5 mg/L	89.4% / 88.7%	89.0% / NA		0.840%	

Wet Chemistry -- Batch: A202338 (Water)

Prepared: 28-Feb-12 10:16 By: SB -- Analyzed: 28-Feb-12 10:16 By: SB

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
Cyanide (total)	<0.010 mg/L	116% / NA	91.3% / 91.7%		0.364%	

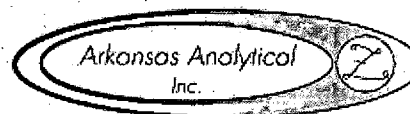
Wet Chemistry -- Batch: A202350 (Water)

Prepared: 28-Feb-12 11:30 By: SB -- Analyzed: 28-Feb-12 11:30 By: SB

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
Phenolics	<0.005 mg/L	86.4% / NA	110% / 103%		7.27%	

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QUALITY CONTROL RESULTS

Wet Chemistry -- Batch: A202356 (Water)

Prepared: 28-Feb-12 09:45 By: SB -- Analyzed: 28-Feb-12 09:45 By: SB

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Sulfide	<0.100 mg/L	62.9% / NA	54.6% / 53.8%		1.54%	

Wet Chemistry -- Batch: A202358 (Water)

Prepared: 22-Feb-12 13:17 By: MH -- Analyzed: 22-Feb-12 13:21 By: MH

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
pH (Field)	NA	101% / 101%	NA / NA		0.00%	

Wet Chemistry -- Batch: A202359 (Water)

Prepared: 22-Feb-12 13:21 By: MH -- Analyzed: 22-Feb-12 13:21 By: MH

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Temperature (Field)	NA	NA / NA	NA / NA	5.52%	5.52%	D1

Wet Chemistry -- Batch: A202360 (Water)

Prepared: 22-Feb-12 13:07 By: MH -- Analyzed: 22-Feb-12 13:07 By: MH

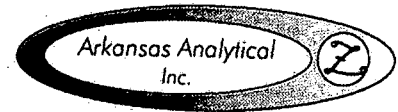
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Chlorine Residual (Field)	NA	NA / NA	NA / NA	7.41%	7.41%	

QUALIFIER(S)

- *%D1: Matrix Spike and/or Matrix Spike Duplicate Percent Recovery Does Not Meet Laboratory Acceptance Criteria
- *%D2: LCS Percent Recovery Does Not Meet Laboratory Acceptance Criteria
- *D1: RPD Value Does Not Meet Laboratory Acceptance Criteria.
- *E2: Estimated Result; Analyzed Outside of Holding Time
- *E20: Estimated Result Due to Matrix Spike and/or Matrix Spike Duplicate Failure; This sample was used as the "parent sample" in MS/MSD prep.
- *E5: Estimated Result Due to Quality Control Failure
- *MBI: Masked By Interference
- *Pass: Exhibits Positive Growth

All Analysis performed according to EPA approved methodology when available:
SW 846, Revised December, 1996; EPA 600/4-79-020, Revised March, 1983; Standard Methods, 20th Edition.
Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

Reviewed by: _____
Norma James
President



11701 Interstate 30, Bldg. 1, Ste. 115
Little Rock, AR 72209
p - 501-455-3233, f - 501-455-6118

**PLEASE FIND ATTACHED RESULTS FOR
SUBCONTRACTED ANALYSIS.**

SUBCONTRACTED ANALYSIS:	PPS Mercury
SUBCONTRACT LAB:	Mercury One LTD
AR ANALYTICAL SDG NUMBER:	1202219 - 01-03

Mercury One LTD

Florida

New York

Louisiana

Mercury Analysis

NELAP Cert # E871043

NELAP Cert # 11976

NELAP Cert # 04160

Analytical Report

Report #: 12-0458

EPA Method 1631E & 245.7 Rev 2

Page 1 of 1

Customer Name:

Arkansas Analytical Inc.
11701 Interstate 30 Bldg 1 Ste 115
Little Rock AR 72209

2/28/12

Attention:

Norma James

Project/PO#

1202219

Lab / (Field ID) or (Customer ID)	Results ng/L	Results ng/L	Results ng/L	Results ng/L	Mercury One ID:
1202219-01 (Outfall 001)	2.12				120227-04
1202219-02 (Outfall 001 Duplicate)		1.95			120227-05
1202219-03 (Field Blank)			<0.5		120227-06
Sample Type	Water	Water	Field Blank		
Date Sampled:	2/22/12	2/22/12	2/22/12		
Date Received:	2/27/12	2/27/12	2/27/12		
Date Prepared:	2/27/12	2/27/12	2/27/12	2/27/12	
Date Analyzed:	2/28/12	2/28/12	2/28/12		
Time Analyzed:	7:43:04 AM	7:49:41 AM	7:51:19 AM		
Method Qualifier	M 1	M 1	M 1	M 1	
Dilution Factor					QCS
Method Blank	1631E	<0.2ng/L	245.7 Rev 2	<1.8 ng/L	Acceptable Range
Method Reporting Limit	1631E	0.5ng/L	245.7 Rev 2	5.0 ng/L	245.7 Rev 2 63-111%
Quality Control Sample (QCS)	5.81	96.8%	-	-	1631E 71-129%

M= Modified: See Below for Explanation

M1= Method 1631E used for analysis.

M2= Method 245.7 used for analysis.

The Matrix Spike and Matrix Spike Duplicate reported are for samples identified below

Mercury One ID

120227-04

% Recovery

MS/MSD Acceptable Range	RPD
1631E 71-129%	< 20%
245.7 Rev 2 63-111%	< 18%

	MS	MSD	RPD
	100.2%	105.3%	5.0%

Comments:

Arkansas Cert# 88-0911
West Virginia Cert # 348
North Carolina Cert # 662

The results are related only to the samples presented on this report.
The test results are certified to meet all requirements of NELAC.

Other Codes

Other Comments: J = Estimated result, R = Rejected,

Reason for J or R flag:

* A value found between the Reporting Limit and the Method Detection Limit is considered estimated

William W. Purves

Rev 4 6/23/11

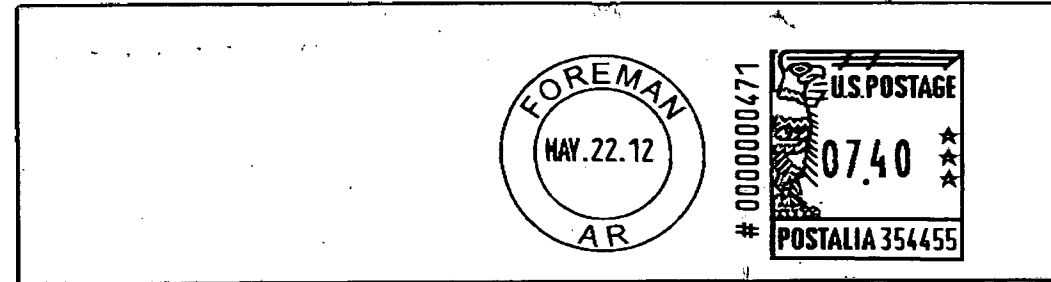
Phone: 330-963-0843

2241 Pinnacle Parkway, Suite B, Twinsburg, OH 44087

Fax: 330-963-1016

ASH GROVE CEMENT

4457 HIGHWAY 108 WEST
FOREMAN, ARKANSAS 71836



IMPORTANT!
FIRST CLASS MAIL



Mr. Shane Byrum
Staff Engineer
Discharge Permits Section, Water Division
Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118-5317

