

ADEQ

ARKANSAS
Department of Environmental Quality

March 8, 2012

Mr. James W. Cutbirth, Environmental Affairs Manager
Georgia Pacific, LLC
Crossett Operations
P.O. Box 3333
Crossett, AR 71635

AFIN: 02-00013

NPDES Permit No.: AR0001210

Dear Mr. Cutbirth:

On January 31 and February 01, 2012, Steven Johnson, ADEQ Inspector Supervisor, Ronald Smith, ADEQ District 10 Water Inspector, and I performed a routine compliance sampling inspection of the facility in accordance with the provisions of the Federal Clean Water Act, the Arkansas Water and Air Pollution Control Act, and the regulations promulgated thereunder. The inspection revealed all samples were below the permit requirements (for daily maximum concentrations and mass loading) and the pH was within the permit required range.

If I can be of any assistance, please contact me at 870-862-0680.

Sincerely,



John W. Lamb
District 8 Field Inspector
Water Division

cc: Water Division Enforcement Branch
Water Division Permits Branch

 <p style="text-align: center;">UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Washington, D.C. 20460</p> <h2 style="text-align: center;">NPDES Compliance Inspection Report</h2>	Form Approved OMB No. 2040-0003
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Section A: National Data System Coding																													
Transaction Code			NPDES								Yr/Mo/Day					Inspec. Type		Inspector		Fac. Type									
1	N	2	5	3	A	R	0	0	0	1	2	1	0	11	12	1	2	0	1	3	1	17	18	S	19	S	20	2	
Remarks																													
Inspection Work Days						Facility Evaluation Rating				BI		QA		-----Reserved-----															
67						70	N	71	N	72	N	73		74	75														80


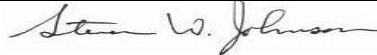
Section B: Facility Data					
Name and Location of Facility Inspected (<i>For industrial users discharging to POTW, also include POTW name and NPDES permit number</i>) Georgia Pacific LLC Crossett Operations 100 Mill Supply Road Crossett, AR	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">Entry Time/Date 09:45/01/31/2012</td> <td style="width:50%;">Permit Effective Date 30 September 2010</td> </tr> <tr> <td>Exit Time/Date 4:50/02/01/2012</td> <td>Permit Expiration Date 31 October 2015</td> </tr> </table>	Entry Time/Date 09:45/01/31/2012	Permit Effective Date 30 September 2010	Exit Time/Date 4:50/02/01/2012	Permit Expiration Date 31 October 2015
Entry Time/Date 09:45/01/31/2012	Permit Effective Date 30 September 2010				
Exit Time/Date 4:50/02/01/2012	Permit Expiration Date 31 October 2015				
Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s) James Cutbirth/Environmental Affairs Manager /870-567-8144 Rachel Johnson, Environmental Engineer/ 870-567-8170	Other Facility Data PDS #064299				
Name, Address of Responsible Official/Title/Phone and Fax Number James Cutbirth, Environmental Affairs Manager /870-567-8144 Georgia-Pacific, LLC P.O. Box 3333 Crossett, AR 71635	Contacted Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				

Section C: Areas Evaluated During Inspection							
(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)							
S	Permit	N	Flow Measurement	N	Operations & Maintenance	N	Sampling
N	Records/Reports	N	Self-Monitoring Program	N	Sludge Handling/Disposal	N	Pollution Prevention
N	Facility Site Review	N	Compliance Schedules	N	Pretreatment	N	Multimedia
S	Effluent/Receiving Waters	N	Laboratory	N	Storm Water		Other:

Section D: Summary of Findings/Comments (Attach additional sheets if necessary)

This sampling inspection was performed in conjunction with a CEI oversight inspection with EPA Region 6. The findings for the oversight can be found in the CEI inspection performed on same dates. SMS 002 was not sampled due to flood by the Ouachita River (Stage Reading >62.0' at Felsenthal Lock and Dam Tail Water).

All samples were below the permit requirements for concentration and mass loading (based upon the daily maximum listed in the permit). pH was within the permitted range.

Name(s) and Signature(s) of Inspector(s)  John W. Lamb Ronald L. (Red) Smith	Agency/Office/Telephone/Fax Ark. Dept. of Environmental Quality, El Dorado, Hope (870)862-0680 (870)862-3509 (870)777-7585	Date 28 February 2012
 Steven Johnson	Ark. Dept. of Environmental Quality/N. Little Rock 501-682-0642	28 February 2012
Signature of Reviewer	Agency/Office/Phone and Fax Numbers	Date

SECTION G: EFFLUENT/RECEIVING WATERS OBSERVATIONS

BASED ON VISUAL OBSERVATIONS ONLY S M U NA NE

DETAILS: See page 9

OUTFALL #:	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	FLOATING SOLIDS	COLOR	OTHER
001	None	None	Mod	Trace	None	brown	
SMS 002	FLOODED						

SECTION H: SLUDGE DISPOSAL

SLUDGE DISPOSAL MEETS PERMIT REQUIREMENTS S M U NA NE

DETAILS: This area was evaluated on the CEI

- SLUDGE MANAGEMENT ADEQUATE TO MAINTAIN EFFLUENT QUALITY: S M U NA NE
- SLUDGE RECORDS MAINTAINED AS REQUIRED BY 40 CFR 503: S M U NA NE
- FOR LAND APPLIED SLUDGE, TYPE OF LAND APPLIED TO: (E.G., FOREST, AGRICULTURAL, PUBLIC CONTACT SITE):

SECTION I: SAMPLING INSPECTION PROCEDURES

SAMPLE RESULTS WITHIN PERMIT REQUIREMENTS S M U NA NE

DETAILS:

- SAMPLES OBTAINED THIS INSPECTION: Y N NA NE
- TYPE OF SAMPLE: GRAB:__ COMPOSITE:__ METHOD:__ FREQUENCY: 24 hour composite,
- SAMPLES PRESERVED: Y N NA NE
- FLOW PROPORTIONED SAMPLES OBTAINED: Y N NA NE
- SAMPLE OBTAINED FROM FACILITY'S SAMPLING DEVICE: Y N NA NE
- SAMPLE REPRESENTATIVE OF VOLUME AND NATURE OF DISCHARGE: Y N NA NE
- SAMPLE SPLIT WITH PERMITTEE: Y N NA NE
- CHAIN-OF-CUSTODY PROCEDURES EMPLOYED: Y N NA NE
- SAMPLES COLLECTED IN ACCORDANCE WITH PERMIT: Y N NA NE

SECTION J: STORM WATER POLLUTION PREVENTION PLAN

STORM WATER MANAGEMENT MEETS PERMIT REQUIREMENTS S M U NA NE

DETAILS: This area was evaluated on the CEI

- SWPPP UPDATED AS NEEDED: Y N NA NE
- SITE MAP INCLUDING ALL DISCHARGES AND SURFACE WATERS: Y N NA NE
- POLLUTION PREVENTION TEAM IDENTIFIED: Y N NA NE
- POLLUTION PREVENTION TEAM PROPERLY TRAINED: Y N NA NE
- LIST OF POTENTIAL POLLUTANT SOURCES: Y N NA NE
- LIST OF POTENTIAL SOURCES AND PAST SPILLS AND LEAKS: Y N NA NE
- ALL NON-STORM WATER DISCHARGES ARE AUTHORIZED: Y N NA NE
- LIST OF STRUCTURAL BMPS: Y N NA NE
- LIST OF NON-STRUCTURAL BMPS: Y N NA NE
- BMPS PROPERLY OPERATED AND MAINTAINED: Y N NA NE
- INSPECTIONS CONDUCTED AS REQUIRED: Y N NA NE

**NPDES Compliance Inspection Report
Further Explanation**

The flow for the period 01/31-02/01 for Outfall 001 was 39.4 mgd

The following are summary of the sample results, mass loading and permit requirements:

Parameter	Sample conc	Permitted Daily Max	Mass Loading	Permitted Daily Max
BOD	28.9 mg/L	123.8 mg/L	9,496 lbs/day	46,453 lbs/day
TSS	47.5 mg/L	222.4 mg/L	15,608 lbs/day	70,188 lbs/day
Nitrate as N	<0.03 mg/L	Report mg/L	<9.9 lbs/day	Report lbs/day
Total Phosph.	1.57 mg/L	Report mg/L	515.9 lbs/day	Report lbs/day
Total Rec Zn	649 µg/L	Report µg/L	213.3 lbs/day	Report lbs/day
Total Rec Cu	10.5 µg/L	Report µg/L	3.5 lbs/day	Report lbs/day
Dieldrin	<0.002 µg/L	Report µg/L	<0.0007 lbs/day	Report lbs/day
2,3,7,8-TCDD	<1.0 µg/L*	Report pg/L	<0.3 lbs/day	Report lbs/day
AOX	1.3 mg/L	N/A	427.2 lbs/day	3,276 lbs day

* The minimum detection limit for 2,3,7,8-TCDD did not meet the requirements of the permit. The minimum detection listed in the permit is 0.00001 µg/L. The facility’s contract lab can meet the minimum detection limits and the facility can and does report the lbs/day as a zero.

The pH grab sample was 7.78 S.U. and duplicate was 7.79 S.U. @ 8:50 on 2/01/2012.
Permit limit: 6.0-9.0 S.U.



5301 Northshore Drive
North Little Rock, AR 72118
Telephone: 501-682-0744

Client Report For: Georgia Pacific 2012 0299
Attention:
Client Address:

Report Date: February 16, 2012
LAB ID: AR12FEB02-01
Comment:

Approved By: _____

Date: February 16, 2012

Arkansas Department of Environmental Quality
 5301 Northshore Drive
 North Little Rock, AR 72118

Laboratory Contact: Jeff Ruehr
 Ruehr@adeq.state.ar.us
 501-682-0955

Client:	Special Samples	Client Sample ID:	GP Outfall
Lab ID:	2012-0299	Collection Date:	2/1/2012 7:03:00 AM
		Matrix:	Water

Analyses

<i>Ammonia as Nitrogen</i>	<i>SM 4500-NH3 H (20th)</i>	<i>Batch: 12020912</i>	<i>Run: 1</i>	
	<u>Result</u>	<u>Reporting</u>	<u>MDL</u>	<u>Qual</u>
		<u>Limit</u>		<u>Unit</u>
Ammonia as N	3.76	0.3	0.03	mg/L
Dilution Factor	10			
Analyzed By	Chad Carrington			
Analysis Date/Time	2/8/2012 10:51:24 AM			

<i>Anions by Ion Chromatography</i>	<i>EPA 300.0</i>	<i>Batch: 12021302</i>	<i>Run: 1</i>	
	<u>Result</u>	<u>Reporting</u>	<u>MDL</u>	<u>Qual</u>
		<u>Limit</u>		<u>Unit</u>
Fluoride	0.31	0.25	0.009	mg/L
Bromide	1.15	0.5	0.01	mg/L
Chloride	218	1.00	0.07	mg/L
Sulfate	428	1.00	0.04	mg/L
Dilution Factor	5			
Analyzed By	John Hawkins			
Analysis Date/Time	02/08/12 10:04			

<i>Biochemical Oxygen Demand (BOD) 5 Day</i>	<i>SM 5210-B</i>	<i>Batch: 12021303</i>	<i>Run: 1</i>	
	<u>Result</u>	<u>Reporting</u>	<u>MDL</u>	<u>Qual</u>
		<u>Limit</u>		<u>Unit</u>
Biochemical Oxygen Demand	28.9	0.2	0.2	mg/L
Analyzed By	John Hawkins			
Analysis Date/Time	2/3/2012 11:39			

<i>Nitrate and Nitrite</i>	<i>SM 4500-NO3 I (20th)</i>	<i>Batch: 12020914</i>	<i>Run: 1</i>	
	<u>Result</u>	<u>Reporting</u>	<u>MDL</u>	<u>Qual</u>
		<u>Limit</u>		<u>Unit</u>
Nitrate/Nitrite as N	<0.03	0.03	0.03	mg/L
Dilution Factor	1.0			
Analyzed By	Chad Carrington			
Analysis Date/Time	2/8/2012 1:53:39 PM			

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 501-682-0955

Client: Special Samples	Client Sample ID: GP Outfall
Lab ID: 2012-0299	Collection Date: 2/1/2012 7:03:00 AM
Matrix: Water	

Analyses

<i>Orthophosphate as Phosphorus</i>	<i>SM 4500-P G (20th)</i>		<i>Batch: 12020913</i>	<i>Run: 1</i>	
	<u>Result</u>		<u>Reporting</u>	<u>MDL</u>	<u>Qual</u>
			<u>Limit</u>		<u>Unit</u>
Orthophosphate as P	0.869		0.01	0.005	mg/L
Dilution Factor	1.0				
Analyzed By	Chad Carrington				
Analysis Date/Time	2/8/2012 1:53:39 PM				

<i>Total Dissolved Solids</i>	<i>EPA 160.1</i>		<i>Batch: 12021003</i>	<i>Run: 1</i>	
	<u>Result</u>		<u>Reporting</u>	<u>MDL</u>	<u>Qual</u>
			<u>Limit</u>		<u>Unit</u>
Total Dissolved Solids	1780		5.0	5.0	mg/L
Analyzed By	Robert Graddy				
Analysis Date/Time	2/8/2012 13:00				

<i>Total Suspended Solids</i>	<i>EPA 160.2</i>		<i>Batch: 12021002</i>	<i>Run: 1</i>	
	<u>Result</u>		<u>Reporting</u>	<u>MDL</u>	<u>Qual</u>
			<u>Limit</u>		<u>Unit</u>
Total Suspended Solids	47.5		1.0	1.0	mg/L
Analyzed By	Robert Graddy				
Analysis Date/Time	2/8/2012 7:30				

<i>Total Phosphorus</i>	<i>SM 4500-P J</i>		<i>Batch: 12020915</i>	<i>Run: 1</i>	
	<u>Result</u>		<u>Reporting</u>	<u>MDL</u>	<u>Qual</u>
			<u>Limit</u>		<u>Unit</u>
Phosphorus-total	1.57		0.02	0.01	mg/L
Dilution Factor	2.0				
Analyzed By	Chad Carrington				
Analysis Date/Time	2/9/2012 8:34:26 AM				

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Client:	Special Samples	Client Sample ID:	GP Outfall
Lab ID:	2012-0299	Collection Date:	2/1/2012 7:03:00 AM
		Matrix:	Water

Analyses

<i>Total Metals by EPA 200.8</i>	<i>EPA 200.8</i>	<i>Batch: 12021501</i>	<i>Run: 1</i>		
	Result	Reporting	MDL	Qual	Unit
		Limit			
Aluminum	2160	20.0	20		ug/L
Antimony	26.8	10.0	5		ug/L
Arsenic	2.63	1.00	0.5		ug/L
Barium	432	10.0	2.0		ug/L
Beryllium	<0.5	0.5	0.1		ug/L
Boron	108	25.0	5.0		ug/L
Cadmium	1.25	1.00	0.3		ug/L
Calcium	121	0.04	0.04		mg/L
Chromium	5.00	1.00	0.3		ug/L
Cobalt	5.19	1.00	0.5		ug/L
Copper	10.5	1.00	0.5		ug/L
Iron	490	20.0	10.0		ug/L
Lead	4.09	1.00	0.1		ug/L
Magnesium	15.2	0.1	0.1		mg/L
Manganese	2620	1.00	0.2		ug/L
Nickel	9.8	2.5	0.5		ug/L
Potassium	29.6	1.00	0.05		mg/L
Selenium	<2.00	2.00	0.5		ug/L
Silver	<5.00	5.00	1.0		ug/L
Sodium	476	0.04	0.02		mg/L
Thallium	<2.5	2.5	0.05		ug/L
Vanadium	9.33	2.5	1.0		ug/L
Zinc	649	3.00	2.0		ug/L
Dilution Factor	1.00				
Analyzed By	Joe Semberski				
Analysis Date/Time	Feb 13 2012 3:42PM				
Prep By					
Prep Date/Time					

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 501-682-0955

Client: Special Samples	Client Sample ID: GP Outfall
Lab ID: 2012-0299	Collection Date: 2/1/2012 7:03:00 AM
Matrix: Water	

Analyses

<i>Pesticides</i>	<i>EPA 8081</i>	<i>Batch: 12021607</i>	<i>Run: 1</i>			
	Result	Reporting	MDL	Qual	Unit	
		Limit				
Initial Volume	1000				mL	
Final Volume	1				mL	
Dieldrin	<0.002 ug/L	2	2		ug/L	
Dilution Factor	0.001					
Analysis Date/Time	2/7/2012 13:00					
Analyzed By	Jeff Ruehr					
Prep By	Jeff Ruehr					
Prep Date/Time	2/7/2012 08:00					

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Laboratory Contact: Jeff Ruehr
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Analytical Quality Control Results Report

Batch: 12021002	TSS - water
<i>GP Outfall</i>	<i>LIMS ID: 2012-0299</i>

<i>Solids, Total Suspended - water DUP</i>						<i>Run: 1</i>
<i>Parameter</i>	<i>Result</i>	<i>DL</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>	
Total Suspended Solids	55.5 mg/L	1	1			
Total Suspended Solids (RPD)	15.5 %				0 - 20	
Analyzed By	Robert Graddy					
Analysis Date/Time	2/8/2012 7:30					

<i>Solids, Total Suspended - water MB</i>						<i>Run: 1</i>
<i>Parameter</i>	<i>Result</i>	<i>DL</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>	
Total Suspended Solids	<1.0 mg/L	1	1			
Analyzed By	Robert Graddy					
Analysis Date/Time	2/8/2012 7:30					

<i>Solids, Total Suspended - water LCS</i>						<i>Run: 1</i>
<i>Parameter</i>	<i>Result</i>	<i>DL</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>	
Total Suspended Solids (% Recovery)	102 %			90 - 110		
Analyzed By	Robert Graddy					
Analysis Date/Time	2/8/2012 7:30					

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Analytical Quality Control Results Report

Batch: 12021003	TDS - water
<i>GP Outfall</i>	<i>LIMS ID: 2012-0299</i>

<i>Solids, Total Dissolved - water DUP</i>						<i>Run: 1</i>
<i>Parameter</i>	<i>Result</i>	<i>DL</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>	
Total Dissolved Solids	1760 mg/L	5	5			
Total Dissolved Solids (RPD)	0 %					0 - 20
Analyzed By	Robert Graddy					
Analysis Date/Time	2/8/2012 13:00					

MB	LIMS ID: 12021003-MB-01
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<i>Solids, Total Dissolved - water MB</i>						<i>Run: 1</i>
<i>Parameter</i>	<i>Result</i>	<i>DL</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>	
Total Dissolved Solids	<5.0 mg/L	5	5			
Analyzed By	Robert Graddy					
Analysis Date/Time	2/8/2012 13:00					

LCS	LIMS ID: 12021003-LCS-01
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<i>Solids, Total Dissolved - water LCS</i>						<i>Run: 1</i>
<i>Parameter</i>	<i>Result</i>	<i>DL</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>	
Total Dissolved Solids (% Recovery)	102 %					90 - 110
Analyzed By	Robert Graddy					
Analysis Date/Time	2/8/2012 13:00					

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Analytical Quality Control Results Report

Batch: 12021303	BOD5 - water
<i>GP Outfall</i>	<i>LIMS ID: 2012-0299</i>

<i>BOD - water DUP</i>						<i>Run: 1</i>
<i>Parameter</i>	<i>Result</i>	<i>DL</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>	
Biochemical Oxygen Demand	25.2 mg/L	0.2	0.2			
Biochemical Oxygen Demand (RPD)	13.9 %				0 - 20	
Analyzed By	John Hawkins					
Analysis Date/Time	2/3/2012 11:39					

MB	LIMS ID: 12021303-MB-01
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<i>BOD - water MB</i>						<i>Run: 1</i>
<i>Parameter</i>	<i>Result</i>	<i>DL</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>	
Biochemical Oxygen Demand	<0.2 mg/L	0.2	0.2			
Analyzed By	John Hawkins					
Analysis Date/Time	2/3/2012 11:39					

LCS	LIMS ID: 12021303-LCS-01
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<i>BOD - water LCS</i>						<i>Run: 1</i>
<i>Parameter</i>	<i>Result</i>	<i>DL</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>	
Biochemical Oxygen Demand (% Recovery)	103 %			80 - 120		
Analyzed By	John Hawkins					
Analysis Date/Time	2/3/2012 11:39					

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Laboratory Contact: Jeff Ruehr
 Ruehr@adeq.state.ar.us
 501-682-0955

Analytical Quality Control Results Report

Batch: 12021501	ICP Metals - water (total)				
<i>GP Outfall</i>	<i>LIMS ID: 2012-0299</i>				
<i>ICP Metals - water (Total) DUP</i>					<i>Run: 1</i>
<i>Parameter</i>	<i>Result</i>	<i>DL</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>
Aluminum	2100 ug/L	20	20		
Aluminum (RPD)	2.8 %				0 - 20
Antimony (RPD)	1.0 %				0 - 20
Antimony	27.1 ug/L	5	10		
Arsenic	2.40 ug/L	0.5	1		
Arsenic (RPD)	9.2 %				0 - 20
Barium (RPD)	5.0 %				0 - 20
Barium	411 ug/L	2	10		
Beryllium	<0.5 ug/L	0.1	0.5		
Beryllium (RPD)	45.0 %				0 - 20
Boron (RPD)	6.1 %				0 - 20
Boron	102 ug/L	5	25		
Cadmium	1.07 ug/L	0.3	1		
Cadmium (RPD)	15.9 %				0 - 20
Calcium (RPD)	3.3 %				0 - 20
Calcium	117 mg/L	0.04	0.04		
Chromium	4.83 ug/L	0.3	1		
Chromium (RPD)	3.4 %				0 - 20
Cobalt (RPD)	5.4 %				0 - 20
Cobalt	4.92 ug/L	0.5	1		
Copper	10.2 ug/L	0.5	1		
Copper (RPD)	2.5 %				0 - 20
Iron (RPD)	1.5 %				0 - 20
Iron	482 ug/L	10	20		
Lead	3.94 ug/L	0.1	1		
Lead (RPD)	3.8 %				0 - 20
Magnesium (RPD)	3.5 %				0 - 20
Magnesium	14.7 mg/L	0.1	0.1		
Manganese	2500 ug/L	0.2	1		
Manganese (RPD)	4.7 %				0 - 20
Nickel (RPD)	2.9 %				0 - 20
Nickel	9.5 ug/L	0.5	2.5		
Potassium (RPD)	1.9 %				0 - 20
Potassium	29.1 mg/L	0.05	1		
Selenium (RPD)	27.5 %				0 - 20
Selenium	<2.00 ug/L	0.5	2		
Silver	<5.00 ug/L	1	5		
Silver (RPD)	62.1 %				0 - 20
Sodium	467 mg/L	0.02	0.04		

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Analytical Quality Control Results Report

Batch: 12021501	ICP Metals - water (total)				
<i>GP Outfall</i>	<i>LIMS ID: 2012-0299</i>				
<i>ICP Metals - water (Total) DUP</i>					<i>Run: 1</i>
<i>Parameter</i>	<i>Result</i>	<i>DL</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>
Sodium (RPD)	1.9 %				0 - 20
Thallium (RPD)	71.2 %				0 - 20
Thallium	<2.5 ug/L	0.05	2.5		
Vanadium	8.59 ug/L	1	2.5		
Vanadium (RPD)	8.2 %				0 - 20
Zinc (RPD)	2.7 %				0 - 20
Zinc	632 ug/L	2	3		
Dilution Factor	1.0				
Analyzed By	Joe Semberski				
Analysis Date/Time	Feb 13 2012 3:47PM				

<i>GP Outfall</i>					<i>LIMS ID: 2012-0299</i>
<i>ICP Metals - water (Total) MS</i>					<i>Run: 1</i>
<i>Parameter</i>	<i>Result</i>	<i>DL</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>
Aluminum (% Recovery)	108 %			70 - 130	
Antimony (% Recovery)	92.8 %			70 - 130	
Arsenic (% Recovery)	89.8 %			70 - 130	
Barium (% Recovery)	95.5 %			70 - 130	
Beryllium (% Recovery)	92.3 %			70 - 130	
Boron (% Recovery)	94.2 %			70 - 130	
Cadmium (% Recovery)	95.6 %			70 - 130	
Calcium (% Recovery)	52.0 %			70 - 130	
Chromium (% Recovery)	96.9 %			70 - 130	
Cobalt (% Recovery)	93.5 %			70 - 130	
Copper (% Recovery)	88.1 %			70 - 130	
Iron (% Recovery)	96.0 %			70 - 130	
Lead (% Recovery)	110 %			70 - 130	
Magnesium (% Recovery)	101 %			70 - 130	
Manganese (% Recovery)	0 %			70 - 130	
Nickel (% Recovery)	90 %			70 - 130	
Potassium (% Recovery)	102 %			70 - 130	
Selenium (% Recovery)	88.4 %			70 - 130	
Silver (% Recovery)	91.0 %			70 - 130	
Sodium (% Recovery)	490 %			70 - 130	
Thallium (% Recovery)	107 %			70 - 130	
Vanadium (% Recovery)	97.3 %			70 - 130	
Zinc (% Recovery)	90.0 %			70 - 130	

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Analytical Quality Control Results Report

Batch: 12021501	ICP Metals - water (total)
<i>GP Outfall</i>	<i>LIMS ID: 2012-0299</i>

<i>ICP Metals - water (Total) MS</i>		<i>Run: 1</i>			
<i>Parameter</i>	<i>Result</i>	<i>DL</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>
Dilution Factor	1.0				
Analyzed By	Joe Semberski				
Analysis Date/Time	Feb 13 2012 3:51PM				

<i>GP Outfall</i>	<i>LIMS ID: 2012-0299</i>
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<i>ICP Metals - water (Total) MSD</i>		<i>Run: 1</i>			
<i>Parameter</i>	<i>Result</i>	<i>DL</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>
Aluminum (% Recovery)	120 %			70 - 130	
Aluminum (RPD)	1.9 %				0 - 20
Antimony (% Recovery)	92.6 %			70 - 130	
Antimony (RPD)	0.2 %				0 - 20
Arsenic (% Recovery)	90.6 %			70 - 130	
Arsenic (RPD)	0.7 %				0 - 20
Barium (% Recovery)	95.5 %			70 - 130	
Barium (RPD)	0 %				0 - 20
Beryllium (% Recovery)	94.3 %			70 - 130	
Beryllium (RPD)	2.1 %				0 - 20
Boron (% Recovery)	96.2 %			70 - 130	
Boron (RPD)	1.4 %				0 - 20
Cadmium (% Recovery)	97.0 %			70 - 130	
Cadmium (RPD)	1.3 %				0 - 20
Calcium (% Recovery)	53.0 %			70 - 130	
Calcium (RPD)	0.1 %				0 - 20
Chromium (% Recovery)	100 %			70 - 130	
Chromium (RPD)	2.9 %				0 - 20
Cobalt (% Recovery)	94.8 %			70 - 130	
Cobalt (RPD)	1.3 %				0 - 20
Copper (% Recovery)	86.9 %			70 - 130	
Copper (RPD)	1.1 %				0 - 20
Iron (% Recovery)	102 %			70 - 130	
Iron (RPD)	1.8 %				0 - 20
Lead (% Recovery)	108 %			70 - 130	
Lead (RPD)	1.5 %				0 - 20
Magnesium (% Recovery)	105 %			70 - 130	
Magnesium (RPD)	1.7 %				0 - 20
Manganese (% Recovery)	0 %			70 - 130	
Manganese (RPD)	0.5 %				0 - 20

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Analytical Quality Control Results Report

Batch: 12021501		ICP Metals - water (total)			
<i>GP Outfall</i>		<i>LIMS ID: 2012-0299</i>			
<i>ICP Metals - water (Total) MSD</i>		<i>Run: 1</i>			
<i>Parameter</i>	<i>Result</i>	<i>DL</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>
Nickel (% Recovery)	92 %			70 - 130	
Nickel (RPD)	2.0 %				0 - 20
Potassium (% Recovery)	103 %			70 - 130	
Potassium (RPD)	0.3 %				0 - 20
Selenium (% Recovery)	89.9 %			70 - 130	
Selenium (RPD)	1.6 %				0 - 20
Silver (% Recovery)	91.6 %			70 - 130	
Silver (RPD)	0.7 %				0 - 20
Sodium (% Recovery)	480 %			70 - 130	
Sodium (RPD)	0.2 %				0 - 20
Thallium (% Recovery)	106 %			70 - 130	
Thallium (RPD)	1.1 %				0 - 20
Vanadium (% Recovery)	98.4 %			70 - 130	
Vanadium (RPD)	1.0 %				0 - 20
Zinc (% Recovery)	92.5 %			70 - 130	
Zinc (RPD)	0.1 %				0 - 20
Dilution Factor	1.0				
Analysis Date/Time	Feb 13 2012 3:56PM				
Analyzed By	Joe Semberski				

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Analytical Quality Control Results Report

Batch: 12021302		Anions - water			
GP Outfall		LIMS ID: 2012-0299			
<i>Anions - water DUP</i>					<i>Run: 1</i>
<i>Parameter</i>	<i>Result</i>	<i>DL</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>
Fluoride (RPD)	14.7 %				0 - 20
Fluoride	0.35 mg/L	0.04	0.25		
Bromide	1.14 mg/L	0.05	0.5		
Bromide (RPD)	0.9 %				0 - 20
Chloride (RPD)	0.5 %				0 - 20
Chloride	217 mg/L	0.35	1		
Sulfate (RPD)	0.6 %				0 - 20
Sulfate	426 mg/L	0.2	1		
Dilution Factor	5				
Analyzed By	John Hawkins				
Analysis Date/Time	02/08/12 10:22				

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Analytical Quality Control Results Report

Batch: 12020913	Lachat - OP (water)
<i>GP Outfall</i>	<i>LIMS ID: 2012-0299</i>

<i>Orthophosphate as P - water DUP</i>		<i>Run: 1</i>			
<i>Parameter</i>	<i>Result</i>	<i>DL</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>
Orthophosphate as P	0.898 mg/L	0.005	0.01		
Orthophosphate as P (RPD)	3.3 %				0 - 20
Dilution Factor	1.0				
Analyzed By	Chad Carrington				
Analysis Date/Time	2/8/2012 1:54:57 PM				

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Analytical Quality Control Results Report

Batch: 12020914		Lachat - NO3+NO2 (water)			
GP Outfall		LIMS ID: 2012-0299			
<i>Nitrate and Nitrite - water DUP</i>					<i>Run: 1</i>
<i>Parameter</i>	<i>Result</i>	<i>DL</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>
Nitrate/Nitrite as N	<0.03 mg/L	0.03	0.03		
Nitrate/Nitrite as N (RPD)	62.9 %				0 - 20
Dilution Factor	1.0				
Analyzed By	Chad Carrington				
Analysis Date/Time	2/8/2012 1:54:57 PM				

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Analytical Quality Control Results Report

Batch: 12020915		Lachat - TP (water)			
<i>GP Outfall</i>		<i>LIMS ID: 2012-0299</i>			
<i>TP (Total Phosphorus) - water DUP</i>					<i>Run: 1</i>
Parameter	Result	DL	RL	Accuracy Control	Precision Control
Phosphorus-total	1.68 mg/L	0.02	0.02		
Phosphorus-total (RPD)	6.8 %				0 - 20
Dilution Factor	2.0				
Analyzed By	Chad Carrington				
Analysis Date/Time	2/9/2012 8:35:38 AM				



February 8, 2012
Control No. 154937
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Arkansas Department of Environmental Quality
ATTN: Mr. Steve Johnson
5301 Northshore Drive
North Little Rock, AR 72118

This report contains the analytical results and supporting information for samples submitted on February 2, 2012. Attached please find a copy of the Chain of Custody and/or other documents received. Note that any remaining sample will be discarded two weeks from the original report date unless other arrangements are made.

This report is intended for the sole use of the client listed above. Assessment of the data requires access to the entire document.

This report has been reviewed by the Laboratory Director or a qualified designee.

A handwritten signature in cursive script that reads 'Steve Bradford'.

Steve Bradford
Deputy Laboratory Director

This document has been distributed to the following:

PDF cc: Arkansas Department of Environmental Quality
ATTN: Mr. Steve Johnson
johnsons@adeq.ar.us



February 8, 2012
Control No. 154937
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Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118

SAMPLE INFORMATION

Project Description:

Two (2) water sample(s) received on February 2, 2012
GP Crossett
P.O. No. 4501220989

Receipt Details:

A Chain of Custody was provided. The samples were delivered in one (1) ice chest.

Each sample container was checked for proper labeling, including date and time sampled. Sample containers were reviewed for proper type, adequate volume, integrity, temperature, preservation, and holding times. Any exceptions are noted below:

Sample Identification:

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Sampled Date/Time</u>	<u>Notes</u>
154937-1	GPAOX 2/1/12 6:25am	01-Feb-2012 0625	
154937-2	GPTCDD-1,2,3 2/01/12 12:44pm	01-Feb-2012 1244	

Qualifiers:

D Result is from a secondary dilution factor

References:

- "Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/5-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993).
- "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846)", Third Edition.
- "Standard Methods for the Examination of Water and Wastewaters", 20th edition, 1998.
- "American Society for Testing and Materials" (ASTM).
- "Association of Analytical Chemists" (AOAC).



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ANALYTICAL RESULTS

AIC No. 154937-1

Sample Identification: GPAOX 2/1/12 6:25am

<u>Analyte</u>	<u>Result</u>	<u>RL</u>	<u>Units</u>	<u>Qualifier</u>
Total Organic Halides	1.3	0.05	mg/l	D
EPA 9020B Mod.	Prep: 07-Feb-2012 0827 by 290	Analyzed: 07-Feb-2012 1356 by 07	Batch: S31756	Dil: 10

AIC No. 154937-2

Sample Identification: GPTCDD-1,2,3 2/01/12 12:44pm

<u>Analyte</u>	<u>Result</u>	<u>RL</u>	<u>Units</u>	<u>Qualifier</u>
2,3,7,8-TCDD	< 1.0	1.0	ug/l	
EPA 625 (Screen)	Prep: 03-Feb-2012 1353 by 293	Analyzed: 03-Feb-2012 1909 by 293	Batch: B7438	



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LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Organic Halides	1 mg/l	110	90.0-110			S31756	07Feb12 0827 by 290	07Feb12 1332 by 07		

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Organic Halides	154937-1	1 mg/l	93.4	80.0-120	S31756	07Feb12 0827 by 290	07Feb12 1420 by 07	10	D
	154937-1	1 mg/l	81.1	80.0-120	S31756	07Feb12 0827 by 290	07Feb12 1444 by 07	10	D
Relative Percent Difference:			14.1	20.0	S31756				D

LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Total Organic Halides	< 0.005 mg/l	0.005	0.005	S31756-1	07Feb12 0827 by 290	07Feb12 1156 by 07	
2,3,7,8-TCDD	< 1.0 ug/l	1.0	1.0	B7438-1	03Feb12 1353 by 293	03Feb12 1550 by 293	

