



Georgia-Pacific LLC  
Consumer Products

Crossett Paper Operations  
100 Mill Supply Rd.  
P.O. Box 3333  
Crossett, AR 71635  
(870) 567-8000  
(870) 364-9076 fax  
[www.gp.com](http://www.gp.com)

May 21, 2014

Mr. Craig Uyeda  
NPDES Enforcement Section  
Arkansas Department of Environmental Quality  
5301 Northshore Drive  
North Little Rock, AR 72118-5317

Reference: Georgia-Pacific LLC: Crossett Paper Operations  
NPDES Permit # **AR0001210**

Dear Mr. Uyeda:

Attached are the Discharge Monitoring Reports (DMRs) for the Georgia-Pacific Crossett Paper Operations' - NPDES Permit # **AR0001210** - for April 2014. As required by Part III, Section 4 paragraph a, of our NPDES Permit, a full report of the chronic toxicity testing has also been included with this submittal.

If you have any questions or need additional information, please feel free to contact me at (870) 567-8144 or by email at [james.cutbirth@gapac.com](mailto:james.cutbirth@gapac.com).

Sincerely,

A handwritten signature in cursive script that reads "James W. Cutbirth".

James W. Cutbirth  
Environmental Manager



**Chronic Toxicity Test Results-  
Outfall 001 Effluent**

Prepared for:  
**Georgia Pacific Crossett Mill  
Crossett, Arkansas**

Prepared by:  
**ENVIRON International Corporation  
Nashville, Tennessee**

Date:  
**April 2014**

Project Number:  
**20-19675H**



May 5, 2014

Ms. Rachel Johnson  
 Georgia-Pacific Crossett Mill  
 100 Mill Supply Road  
 Crossett, Arkansas 71635

**Re: Chronic Toxicity Test Results- Outfall 001 Effluent - April 2014  
 ENVIRON Project No. 20-19675H**

Dear Ms. Johnson:

ENVIRON conducted a chronic (seven-day) whole effluent toxicity (WET) test for Georgia-Pacific in Crossett, AR. The tests were conducted according to requirements in Arkansas NPDES permit AR0001210. Composite samples of Outfall 001 effluent were collected on April 14, 16, and 18, 2014. The samples were received at ENVIRON on April 15, 17, and 19, 2014, within the USEPA-required receipt temperature range of 0-6.0 °C. The grab samples of river water were received on April 15, 17 and 19, 2014 in good condition. The test organism utilized for the chronic toxicity test was *Ceriodaphnia dubia* (*C. dubia*). The test was initiated upon receipt of the first sample (April 15, 2014). Test concentrations consisted of 25, 34, 45, 60, and 80 percent effluent and a river water control. A secondary control of moderately hard water was also initiated. All control organisms met USEPA test acceptability criteria. The results of the chronic toxicity test are as follows:

TEST RESULTS FOR OUTFALL 001 EFFLUENT	
Permit Limits	<i>C. dubia</i>
NOEC Value 80% (lethality)	80%
NOEC Value 80% (sub-lethality)	80%

The results of the chronic test with *C. dubia* indicated NOEC values for lethality and sub-lethality of 80 percent effluent. The *C. dubia* test results indicate no significant toxicity at the critical dilution.

All *C. dubia* test controls met USEPA criteria for test acceptability. The reproduction Coefficient of Variation (CV) values for the control and critical dilution are 15.5 and 9.8 percent respectively, which meets the Test Acceptability Criteria (TAC) limit of 40 percent. The Percent Minimum Significant Difference (PMSD) value was 14.4 percent, which is within the USEPA PMSD bounds of 13 to 47 percent for *C. dubia* reproduction, indicating normal test sensitivity. The effluent concentration-response curve is flat and not described in EPA-B-00-004 *Method Guidance and Recommendations for Whole Effluent Toxicity (WET) Testing*. A flat dose-response is indicative of a lack of toxicity. This test is considered valid for assessment of permit requirements. The monthly reference toxicant test also met all the test acceptability criteria.

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NELAP Accredited and Laboratory Certification in the following States: AR (02-008-0), AZ (0751), CA (2465), FL (E87896), IA (386), KS (E-10391), LA (02061), MN, NC (003), OK (9973), SC (84015), TX (T104704410-11-2), VA (460171), VI (399050850), WV (351) Test Results Contained in this Report Meet NELAP Requirements

Copies of the laboratory bench sheets with statistical data and documentation from the terminated test are presented in Attachment 1. Chain-of-custody documentation and reference toxicant data are presented in Attachment 2.

In order to meet the NELAP requirement for listing the total number of report pages; this report consists of 25 pages including this cover letter, attachment pages and separator pages.

If you have any questions please contact Rick Lockwood at (615) 277-7523. ENVIRON appreciates the opportunity to assist Georgia-Pacific with their testing needs.

Sincerely,

ENVIRON International Corporation



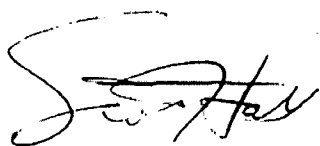
Richard E. Lockwood  
Project Manager



Robin L. Richards, REM  
Principal

**DATA REVIEW FORM**  
**ACUTE AND CHRONIC WET TESTS**  
**ENVIRON International Corporation**

The raw data (i.e., laboratory bench sheets) and data in the applicable summary sheets have been checked and found to be complete. Additionally, test conditions and control performance meet test acceptability criteria specified by the US Environmental Protection Agency and the certifying state authority for the tests conducted.<sup>1</sup>



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Scott Hall, Manager  
Ecotoxicology Group

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<sup>1</sup> Any data limitations regarding their applicability for determining NPDES permit compliance are discussed in the report cover letter.

**Attachment 1:  
Laboratory Bench Sheets, Statistical Data, and  
Terminated Test Documentation**

**CETIS Analytical Report**

Report Date: 25 Apr-14 13:49 (p 1 of 2)  
 Test Code: 16760c | 00-7046-0526

**Ceriodaphnia 7-d Survival and Reproduction Test**

ENVIRON International Corp

Analysis ID: 04-9865-5933      Endpoint: 7d Survival Rate      CETIS Version: CETISv1.8.4  
 Analyzed: 25 Apr-14 13:48      Analysis: STP 2x2 Contingency Tables      Official Results: Yes

Sample Note: outfall 001

Data Transform	Zeta	Alt Hyp	Trials	Seed	NOEL	LOEL	TOEL	TU
Untransformed		C > T	NA	NA	80	>80	NA	1.25

**Fisher Exact/Bonferroni-Holm Test**

Control	vs	C-%	Test Stat	P-Value	P-Type	Decision(α:5%)
Dilution Water		25	1	1.0000	Exact	Non-Significant Effect
		34	1	1.0000	Exact	Non-Significant Effect
		45	1	1.0000	Exact	Non-Significant Effect
		60	1	1.0000	Exact	Non-Significant Effect
		80	1	1.0000	Exact	Non-Significant Effect

**Test Acceptability Criteria**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.8 - NL	Yes	Passes Acceptability Criteria

**Data Summary**

C-%	Control Type	NR	R	NR + R	Prop NR	Prop R	%Effect
0	Dilution Water	10	0	10	1	0	0.0%
25		10	0	10	1	0	0.0%
34		10	0	10	1	0	0.0%
45		10	0	10	1	0	0.0%
60		10	0	10	1	0	0.0%
80		10	0	10	1	0	0.0%

**7d Survival Rate Detail**

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Dilution Water	1	1	1	1	1	1	1	1	1	1
25		1	1	1	1	1	1	1	1	1	1
34		1	1	1	1	1	1	1	1	1	1
45		1	1	1	1	1	1	1	1	1	1
60		1	1	1	1	1	1	1	1	1	1
80		1	1	1	1	1	1	1	1	1	1

**7d Survival Rate Binomials**

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Dilution Water	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
34		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
45		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
60		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
80		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1

# CETIS Analytical Report

Report Date: 25 Apr-14 13:49 (p 2 of 2)  
Test Code: 16760c | 00-7046-0526

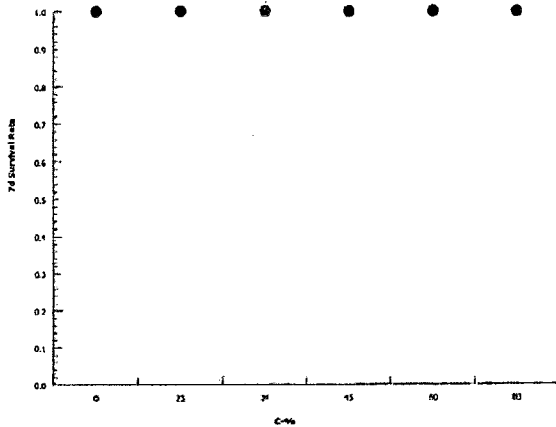
## Ceriodaphnia 7-d Survival and Reproduction Test

ENVIRON International Corp

Analysis ID: 04-9865-5933      Endpoint: 7d Survival Rate  
Analyzed: 25 Apr-14 13:48      Analysis: STP 2x2 Contingency Tables

CETIS Version: CETISv1.8.4  
Official Results: Yes

### Graphics





**CETIS Analytical Report**

Report Date: 25 Apr-14 13:49 (p 1 of 2)  
 Test Code: 16760c | 00-7046-0526

**Ceriodaphnia 7-d Survival and Reproduction Test**

ENVIRON International Corp

Analysis ID: 21-3713-8173      Endpoint: Reproduction      CETIS Version: CETISv1.8.4  
 Analyzed: 25 Apr-14 13:48      Analysis: Parametric-Control vs Treatments      Official Results: Yes

Sample Note: outfall 001

Data Transform	Zeta	Alt Hyp	Trials	Seed	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	NA	C > T	NA	NA	80	>80	NA	1.25	14.4%

**Dunnett Multiple Comparison Test**

Control	vs	C-%	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
Dilution Water		25	0.527	2.289	4.344	18	0.6340	CDF	Non-Significant Effect
		34	1.423	2.289	4.344	18	0.2436	CDF	Non-Significant Effect
		45	1.054	2.289	4.344	18	0.3924	CDF	Non-Significant Effect
		60	1.37	2.289	4.344	18	0.2627	CDF	Non-Significant Effect
		80	2.003	2.289	4.344	18	0.0905	CDF	Non-Significant Effect

**Test Acceptability Criteria**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	30.2	15 - NL	Yes	Passes Acceptability Criteria
PMSD	0.1438	0.13 - 0.47	Yes	Passes Acceptability Criteria

**ANOVA Table**

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	90.88333	18.17667	5	1.01	0.4210	Non-Significant Effect
Error	972.1	18.00185	54			
Total	1062.983		59			

**Distributional Tests**

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	8.713	15.09	0.1211	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.958	0.9459	0.0374	Normal Distribution

**Reproduction Summary**

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Dilution Water	10	30.2	26.85	33.55	30	23	37	1.482	15.52%	0.0%
25		10	29.2	25.28	33.12	31.5	18	35	1.731	18.74%	3.31%
34		10	27.5	23.58	31.42	30	15	32	1.734	19.94%	8.94%
45		10	28.2	25.97	30.43	28	24	36	0.9866	11.06%	6.62%
60		10	27.6	25.38	29.82	28	21	31	0.9798	11.23%	8.61%
80		10	26.4	24.55	28.25	26.5	23	30	0.8192	9.81%	12.58%

**Reproduction Detail**

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Dilution Water	26	32	31	29	23	37	26	28	33	37
25		33	26	22	32	31	18	30	35	32	33
34		25	30	22	27	31	15	32	30	31	32
45		28	28	28	27	26	24	29	29	36	27
60		30	24	28	28	30	21	27	30	31	27
80		24	23	23	28	26	25	29	27	30	29

# CETIS Analytical Report

Report Date: 25 Apr-14 13:49 (p 2 of 2)  
Test Code: 16760c | 00-7046-0526

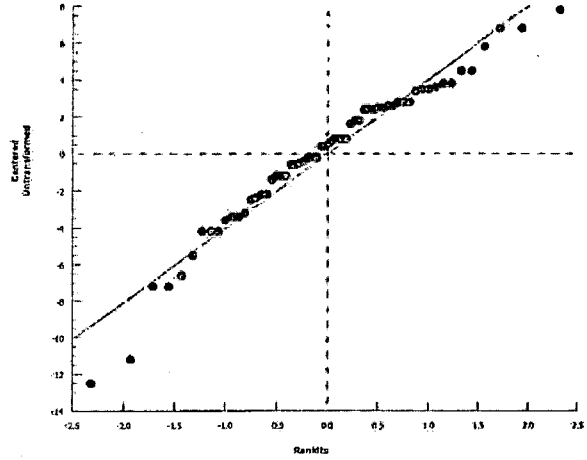
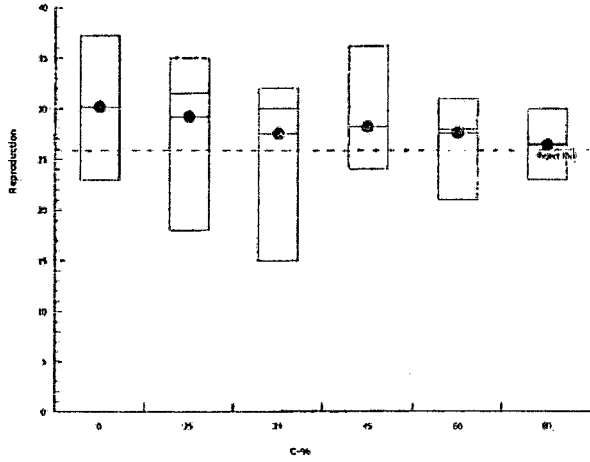
## Ceriodaphnia 7-d Survival and Reproduction Test

ENVIRON International Corp

Analysis ID: 21-3713-8173      Endpoint: Reproduction  
Analyzed: 25 Apr-14 13:48      Analysis: Parametric-Control vs Treatments

CETIS Version: CETISv1.8.4  
Official Results: Yes

### Graphics



**CETIS Analytical Report**

Report Date: 25 Apr-14 13:49 (p 1 of 1)  
 Test Code: 16760c | 00-7046-0526

**Ceriodaphnia 7-d Survival and Reproduction Test**

ENVIRON International Corp

Analysis ID: 14-3095-0465      Endpoint: Reproduction      CETIS Version: CETISv1.8.4  
 Analyzed: 25 Apr-14 13:49      Analysis: Linear Interpolation (ICPIN)      Official Results: Yes

Sample Note: outfall 001

**Linear Interpolation Options**

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	710908	1000	Yes	Two-Point Interpolation

**Test Acceptability Criteria**

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	30.2	15 - NL	Yes	Passes Acceptability Criteria

**Point Estimates**

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC25	>80	N/A	N/A	<1.25	NA	NA

**Reproduction Summary**

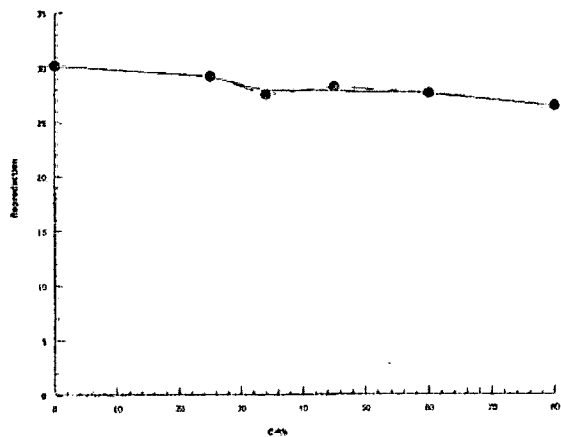
**Calculated Variate**

C-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Dilution Water	10	30.2	23	37	1.482	4.686	15.52%	0.0%
25		10	29.2	18	35	1.731	5.473	18.74%	3.31%
34		10	27.5	15	32	1.734	5.482	19.94%	8.94%
45		10	28.2	24	36	0.9866	3.12	11.06%	6.62%
60		10	27.6	21	31	0.9798	3.098	11.23%	8.61%
80		10	26.4	23	30	0.8192	2.591	9.81%	12.58%

**Reproduction Detail**

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Dilution Water	26	32	31	29	23	37	26	28	33	37
25		33	26	22	32	31	18	30	35	32	33
34		25	30	22	27	31	15	32	30	31	32
45		28	28	28	27	26	24	29	29	36	27
60		30	24	28	28	30	21	27	30	31	27
80		24	23	23	28	26	25	29	27	30	29

**Graphics**



**ENVIRON CERIODAPHNIA DUBIA SURVIVAL AND REPRODUCTION 3-BROOD CHRONIC TOXICITY TEST  
EPA-821-R-02-013 Method 1002.0**

TEST LOG NO.: 10760  
 JOB NUMBER.: 20-19675H  
 INDUSTRY: Georgia Pacific-Crossett  
 EFFLUENT: Outfall 001  
 DILUTION WATER: River Water  
 NPDES (Y/N): Yes

PHOTOPERIOD: 16 hr light/8 hr dark  
 FEEDING REGIME: 0.1 mL YCT / 0.1 mL P. subcapitata per 15 mL  
 TEST VESSEL CAPACITY: 30 mL  
 TEST SOLUTION VOLUME: 15 mL  
 NO. ORGANISMS/REPLICATE: 1  
 NO. REPLICATES: 10

ORGANISM SOURCE INFORMATION:  
 AGE (date): 4/14/14 <sup>CR 415</sup>  
 TEMP @ TEST START: 24.3  
 RANDOMIZED BY: CR  
 TEST START: 1030 DATE: 4/15/14  
 TEST END: 1008 DATE: 4/21/14

SOURCE ID:	AGE (time):
10576	1210-1415
10577	1210-1415

SURVIVAL AND REPRODUCTION DATA																	
Test Start & Feeding/End Initials/Time	Daily Renewal & Feeding Initials/Time	Date	Control River Water		Temp (°C)	REPLICATES										Notes	
						76	77	1	2	3	4	5	6	7	8		9
CR 1030		4/15	24.5			Adult	15	19	16	8	10	18	7	6	11	12	
	AH 1024	4/16	24.3	24.3		Day 0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	AH 1016	4/17	24.3	24.4		Day 1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Looks good
	HM 1038	4/18	24.4	24.1		Day 2	4	7	5	5	4	5	5	5	4	5	
	Aw 1057	4/19	24.8	24.6		Day 3	✓	✓	✓	7	8	7	✓	✓	✓	✓	
	Aw 1016	4/20	24.9	24.6		Day 4	7	12	11	✓	✓	(7)	8	9	12	14	
Aw 1008		4/21		24.3		Day 5	15	13	15	17	11	18	13	14	14	18	100%
						Day 6											
						Day 7											
						Day 8											
			Total				26	32	31	29	23	37	26	28	33	37	302

✓ = Test Organism Alive      0 = Live neonates      Miss = Lost or Missing  
 D = Test Organism Dead      (-0) = Dead neonates      M = Male

TEST LOG # 110700

JOB # 20-19675H

CLIENT/SAMPLE ID: Georgia Pacific - Crossett

LAB/STATE: ENVIRON / TN

SURVIVAL AND REPRODUCTION DATA																
Test Start & Feeding / End Initials/ Time	Daily Renewal & Feeding Initials/ Time	Date	Concentration		Adult	REPLICATES										Notes
			25%	Temp (°C)		1	2	3	4	5	6	7	8	9	10	
OK 1030		4/15	25.0		Day 0	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	AH 1024	4/16	24.3	24.1	Day 1	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	AH 1016	4/17	24.4	24.3	Day 2	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	AH 1038	4/18	24.6	24.4	Day 3	5	4	5	5	5	5	5	5	7	5	
	AW 1057	4/19	24.3	24.4	Day 4	✓	6	✓	7	9	7	8	✓	✓	✓	
	AW 1016	4/20	24.6	24.1	Day 5	11	✓	✓	✓	✓	6	✓	12	11	12	
	AW 1008	4/21		24.1	Day 6	17	16	17	20	17	✓	17	18	14	16	
					Day 7											
					Day 8											
			Total			33	26	22	32	31	18	30	35	32	33	292

SURVIVAL AND REPRODUCTION DATA																
Test Start & Feeding / End Initials/ Time	Daily Renewal & Feeding Initials/ Time	Date	Concentration		Adult	REPLICATES										Notes
			34%	Temp (°C)		1	2	3	4	5	6	7	8	9	10	
OK 1030		4/15	24.7		Day 0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	AH 1024	4/16	24.3	24.4	Day 1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	AH 1016	4/17	24.4	24.5	Day 2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	AH 1038	4/18	24.3	24.7	Day 3	3	5	6	4	5	6	4	6	6	4	
	AW 1057	4/19	24.1	24.4	Day 4	✓	✓	✓	8	9	9	11	✓	✓	✓	
	AW 1016	4/20	24.2	24.4	Day 5	7	11	✓	✓	✓	✓	✓	10	11	10	
	AW 1008	4/21		24.7	Day 6	15	14	16	15	17	✓	17	14	14	18	
					Day 7											
					Day 8											
			Total			25	30	22	27	31	15	32	30	31	32	275

✓ = Test Organism Alive  
 D = Test Organism Dead

0 = Live neonates  
 (-) = Dead neonates

Miss = Lost or Missing  
 M = Male

TEST LOG # 16760

JOB # 20-19675H

CLIENT/SAMPLE ID: Georgia Pacific - Crossett

LAB/STATE: ENVIRON / TN

SURVIVAL AND REPRODUCTION DATA																
Test Start & Feeding / End Initials/ Time	Daily Renewal & Feeding Initials/ Time	Date	Concentration		Adult	REPLICATES										Notes
			45%	Temp (°C)		1	2	3	4	5	6	7	8	9	10	
CP 1030		4/15	24.9		Day 0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	AW 1024	4/16	24.3	24.4	Day 1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	AW 1016	4/17	24.4	24.3	Day 2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	AW 1038	4/18	24.5	24.2	Day 3	5	5	5	5	6	4	6	5	6	4	
	AW 1057	4/19	24.1	24.3	Day 4	✓	✓	✓	✓	✓	9	8	✓	✓	✓	
	AW 1016	4/20	24.6	24.8	Day 5	10	✓	8	9	11	11	✓	9	12	7	
AW 1038		4/21		24.3	Day 6	13	16	15	13	9	✓	15	15	18	16	
					Day 7											
					Day 8											
			Total			28	28	28	27	26	24	29	29	36	27	282

SURVIVAL AND REPRODUCTION DATA																
Test Start & Feeding / End Initials/ Time	Daily Renewal & Feeding Initials/ Time	Date	Concentration		Adult	REPLICATES										Notes
			60%	Temp (°C)		1	2	3	4	5	6	7	8	9	10	
CP 1030		4/15	25.1		Day 0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	AW 1024	4/16	24.5	24.3	Day 1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	AW 1016	4/17	24.4	24.5	Day 2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	AW 1038	4/18	24.4	24.1	Day 3	5	4	5	4	6	4	5	6	5	4	
	AW 1057	4/19	24.5	24.8	Day 4	✓	✓	✓	✓	9	11	7	✓	✓	✓	
	AW 1016	4/20	24.6	24.8	Day 5	8	✓	9	✓	✓	10	9	10	10	11	
AW 1038		4/21		24.9	Day 6	17	15	14	15	13	14	13	14	16	12	
					Day 7											
					Day 8											
			Total			30	24	28	28	30	21	27	30	31	27	276

✓ = Test Organism Alive      0 = Live neonates      Miss = Lost or Missing  
 D = Test Organism Dead      (-) = Dead neonates      M = Male

L:\ecotox\lab\Labforms\ToxTestSheets\7DchronicCD.doc

TEST LOG # 16760

JOB # 20-19675H

CLIENT/SAMPLE ID: Georgia Pacific - Crossett

LAB/STATE: ENVIRON / TN

SURVIVAL AND REPRODUCTION DATA																	
Test Start & Feeding / End Initials / Time	Daily Renewal & Feeding Initials / Time	Date	Concentration			REPLICATES										Notes	
			80%	Temp (°C)		1	2	3	4	5	6	7	8	9	10		
					Adult												
CRZ 1030		4/15	24.0		Day 0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	AH 1024	4/16	24.3	24.4	Day 1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	AH 1016	4/17	24.2	24.4	Day 2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	HM 1038	4/18	24.3	24.2	Day 3	4	5	3	3	4	5	4	4	6	5		
	AW 1057	4/19	24.3	24.4	Day 4	✓	✓	✓	✓	6	8	11	✓	✓	✓	✓	
	AW 1016	4/20	24.1	24.5	Day 5	7	8	8	10	✓	✓	✓	10	9	8		
AW 1008		4/21		24.8	Day 6	13	10	12	15	16	12	14	13	15	16		
					Day 7												
					Day 8												
			Total			24	23	23	28	26	25	29	27	30	29	26	4

05302

1208 <   
 *inset*

SURVIVAL AND REPRODUCTION DATA																	
Test Start & Feeding / End Initials / Time	Daily Renewal & Feeding Initials / Time	Date	Concentration			REPLICATES										Notes	
			MH	Temp (°C)		1	2	3	4	5	6	7	8	9	10		
					Day 0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
CRZ 1030		4/15	24.4		Day 0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	AH 1024	4/16	24.2	24.5	Day 1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	AH 1016	4/17	24.3	24.4	Day 2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	HM 1038	4/18	24.2	24.4	Day 3	6	6	7	5	7	5	5	6	6	(M)	Missing	
	AW 1057	4/19	24.1	24.3	Day 4	✓	✓	✓	10	✓	✓	✓	✓	✓	✓	✓	
	AW 1016	4/20	24.1	24.4	Day 5	11	13	11	11	12	9	10	11				
AW 1008		4/21		24.3	Day 6	16	15	19	14	18	13	14	14				
					Day 7												
					Day 8												
			Total			33	34	37	15	32	35	27	30	31	24	9	

✓ = Test Organism Alive  
D = Test Organism Dead

0 = Live neonates  
(-0) = Dead neonates

Miss = Lost or Missing  
M = Male

TEST LOG NO.

16760

CLIENT/SAMPLE ID: Georgia Pacific Crossett

JOB NO.

20-19675H

TEST ORGANISM: Cd

DATE:

4/15/14

ENVIRON Test Log No. 16760

15 of 25

		D.O. (mg/L)													
Concentration (%)	Start	Day 1		Day 2		Day 3		Day 4		Day 5		Day 6		Day 7	
		Old	New	Old	New	Old	New	Old	New	Old	New	Old	New		
RW	8.5	8.5	8.7	8.5	8.7	8.3	8.7	8.4	8.4	8.2	8.4	8.2			
25	8.5	8.5	8.7	8.5	8.7	8.3	8.7	8.4	8.4	8.3	8.4	8.0			
34	8.5	8.5	8.7	8.5	8.7	8.3	8.7	8.4	8.4	8.3	8.4	8.5			
45	8.5	8.5	8.7	8.5	8.7	8.3	8.7	8.4	8.4	8.3	8.4	8.5			
60	8.5	8.5	8.7	8.5	8.7	8.3	8.7	8.4	8.4	8.3	8.4	8.0			
80	8.5	8.5	8.7	8.5	8.7	8.3	8.7	8.4	8.4	8.3	8.4	7.8			
MH	8.5	8.5	8.7	8.5	8.7	8.3	8.7	8.4	8.4	8.3	8.4	7.8			

		pH (s.u.)													
Concentration (%)	Start	Day 1		Day 2		Day 3		Day 4		Day 5		Day 6		Day 7	
		Old	New	Old	New	Old	New	Old	New	Old	New	Old	New		
RW	7.33	7.34	7.85	7.36	7.85	7.68	7.82	7.67	7.80	7.46	7.74	7.55			
25	7.46	7.64	7.52	7.16	7.50	8.20	7.53	8.31	7.35	8.23	7.41	8.28			
34	7.57	7.31	7.63	8.23	7.61	8.16	7.64	8.42	7.54	8.44	7.58	8.37			
45	7.63	8.34	7.70	8.33	7.71	8.47	7.74	8.53	7.67	8.56	7.66	8.51			
60	7.75	8.49	7.91	8.42	7.79	8.56	7.83	8.65	7.72	8.10	7.77	8.63			
80	7.83	8.63	7.86	8.56	7.96	8.65	7.88	8.71	7.76	8.73	7.78	8.68			
MH	7.71	7.83	7.89	7.37	7.92	7.89	7.96	8.11	8.02	7.98	8.03	7.98			

		Conductivity (µmhos/cm)													
Concentration (%)	Start	Day 1		Day 2		Day 3		Day 4		Day 5		Day 6		Day 7	
		Old	New	Old	New	Old	New	Old	New	Old	New	Old	New		
RW	115	126	109	126	70	134	109	75	70	80	106	75			
25	474	500	476	526	464	509	497	478	525	504	476	483			
34	657	653	678	641	656	702	657	664	687	655	624	656			
45	721	820	757	824	825	876	809	848	558	825	794	822			
60	1028	1051	1014	1080	1058	1122	1061	1104	1141	1090	1047	1094			
80	1386	1366	1291	1370	1311	1410	1320	1385	1466	1418	1333	1339			
MH	252	266	219	270	216	229	219	225	222	223	217	219			

Params Int/Time:	A6 1011	A6 1011	A6 1011	A6 1011	A6 1011	A6 1011	A6 1011	A6 1011	A6 1011	A6 1011	A6 1011	A6 1011		
Dilutions Int/Time:	A10 005	A10 005	A10 005	A10 005	A10 005	A10 005	A10 005	A10 005	A10 005	A10 005	A10 005	A10 005		
Control Water Batch:	5502, 14116	5502, 14116	5502, 14116	5502, 14116	5502, 14116	5502, 14116	5502, 14116	5502, 14116	5502, 14116	5502, 14116	5502, 14116	5502, 14116		
Food Batch:	4949, 64	4949, 64	4949, 64	4949, 64	4949, 64	4949, 64	4949, 64	4949, 64	4949, 64	4949, 64	4949, 64	4949, 64		



TEST LOG NO. 16760

CLIENT: Georgia Pacific Crossett

DATE OF TEST: 4/15/14

JOB NO. 20-19675H

TEST TYPE(S) PERFORMED: Fm & Cd Chronic

ENVIRON Test Log No. 16760

**100% EFFLUENT**

Batch #	Sample ID	Sample Date	1st Use Date	Hardness mg/L CaCO3	Alkalinity mg/L	TRC mg/L	NH <sub>3</sub> N mg/L
17415	Outfall 001	4/13-14/14	4/15/14	280	390	0.03	1.80
17422	Outfall 001	4/15-16/14	4/17/14	270	370	ND 0.04*	1.43
17426	Outfall 001	4/17-18/14	4/19/14	284	385	20.02	1.39

\* on 2nd strip 0.2

**CONTROL / DILUTION WATER**


Batch #	Sample ID	Sample Date	1st Use Date	Hardness mg/L CaCO3	Alkalinity mg/L	TRC mg/L	NH <sub>3</sub> N mg/L
17416	River Water	4/14/14	4/15/14	36.8	16	20.02	0.112
17421	River Water	4/15/14	4/17/14	18.4	20	0.07	20.1
17427	River Water	4/14/14	4/19/14	20.8	19	0.03	20.1
5502	MH	4/7/14	4/12/14	81.6	47	20.02	-
5508	MH	4/15/14	4/18/14	84	41	20.02	-

Silica: Base: 215  
 Filtr: 41  
 Lemic: ND

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**Attachment 2:  
Chain-Of-Custody Documentation and  
Reference Toxicant Data**

ENVIRON Test Log No.: 16790

Project Name:		Project Number:		Analysis Requested										<b>CHAIN-OF-CUSTODY</b>   201 Summit View Drive, Suite 300 Brentwood, TN 37027 PHONE: (615) 277-7570 FAX: (615) 377-4976			
Industry: <u>GEORGIA PACIFIC PAPER</u>				Total Volume in liters	Acute Fathead minnow	Acute Bannerfin shiner	Acute Ceriodaphnia dubia	Acute Daphnia pulex	Chronic Fathead minnow	Chronic Ceriodaphnia dubia	Continuous Batch Tests	Discrete Batch Tests	Other			Description	
Phone: <u>870-567-8170</u> FAX: <u>870-364-9076</u>																Definitive or Screen	Sample B# (lab only)
County: <u>ASHLEY</u> City: <u>CROCKETT</u> State: <u>AR.</u>																	
Sample Collected by (print): <u>DANNY / Jim</u>				NPDES Permit No.: <u>AR0001210</u>													
Sample Collected by (signature): <u>[Signature]</u>				NPDES Test: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes													
Sample Location / ID	Comp/Grab	Container Type	Chilled During Collection (Y/N)	Start Date/Time	End Date/Time	No. of Cntrs	Total Volume in liters	Acute Fathead minnow	Acute Bannerfin shiner	Acute Ceriodaphnia dubia	Acute Daphnia pulex	Chronic Fathead minnow	Chronic Ceriodaphnia dubia	Continuous Batch Tests	Discrete Batch Tests	Other	Description
<u>RIVER</u>	<u>G</u>	<u>PLASTIC</u>	<u>NA</u>	<u>4-14-14</u>	<u>10:30am</u>	<u>2</u>	<u>20</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<u>FALL CREEK</u>	<u>C</u>	<u>PLASTIC</u>	<u>YES</u>	<u>4-14-14</u>	<u>4:15am</u>	<u>2</u>	<u>20</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

\* Matrix: SS - Soil GW - Groundwater WW - Wastewater AW - Ambient Water ML - Mixed Liquor SL - Sludge SD - Sediment OT - Other \_\_\_\_\_

Remarks:

Measured TRC (if applicable): 000 mg/L

Relinquished by: (Signature) <u>[Signature]</u>	Date: <u>4-14-14</u>	Time: <u>3:00pm</u>	Received by: (Signature) <u>[Signature]</u>	<input checked="" type="checkbox"/> Samples shipped via: FedEx <input type="checkbox"/> Other Courier <input type="checkbox"/> UPS Hand Delivered	Condition: (lab use only) <u>GOOD</u>
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Receipt Temp: <u>10.4</u>	Containers/Volume Received: <u>2/20L</u>
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <u>[Signature]</u>	Date: <u>4-15-14</u>	Time: <u>10:45</u>
			pH upon arrival: <u>7.11</u>		DO upon arrival: <u>8.8</u>

15 2.82      8.4

**Sample Receipt Checklist:**

Client: GPC Rossetta

Date/Time received 4/15/14 10845 by CR

1. Cooler sealed and intact upon arrival?  Yes  No
2. Custody seals present?  Yes  No
3. Samples received below 6 degrees Celsius?  Yes  No
4. Was ice present?  Yes  No
5. Is the COC filled out correctly including the sample date/time and signed?  Yes  No
6. Was the sample received within 36 hours of collection?  Yes  No
7. Did the sample(s) arrive in good condition?  Yes  No
8. Was pH and DO measured and in range?  Yes  No
9. Was residual chlorine present?  Yes  No  
 > 1.0 mg/L? (did dechlor occur)  Yes  No <sup>in River</sup>

Comments:

Batch #	Sample ID	Temp (C°)	pH	DO	TRC
17415	EFF	0.4	7.82	2.4	<0.02
17416	RW	0.5	7.11	2.8	0.03

Project Name:		Project Number:		Analysis Requested										<b>CHAIN-OF-CUSTODY</b>  <b>ENVIRON</b>  201 Summit View Drive, Suite 300 Brentwood, TN 37027 PHONE: (615) 377-4775 FAX: (615) 377-4976																																							
Industry: <b>GEORGIA PACIFIC PAPER</b>		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Total Volume in liters</td> <td>Acute Fathead minnow</td> <td>Acute Bannerfin shiner</td> <td>Acute Ceriodaphnia dubia</td> <td>Acute Daphnia pulex</td> <td>Chronic Fathead minnow</td> <td>Chronic Ceriodaphnia dubia</td> <td>Continuous Batch Tests</td> <td>Discrete Batch Tests</td> <td>Other</td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>										Total Volume in liters	Acute Fathead minnow			Acute Bannerfin shiner	Acute Ceriodaphnia dubia	Acute Daphnia pulex	Chronic Fathead minnow	Chronic Ceriodaphnia dubia	Continuous Batch Tests	Discrete Batch Tests	Other																														
Total Volume in liters	Acute Fathead minnow											Acute Bannerfin shiner	Acute Ceriodaphnia dubia			Acute Daphnia pulex	Chronic Fathead minnow	Chronic Ceriodaphnia dubia	Continuous Batch Tests	Discrete Batch Tests	Other																																
Phone: <b>810-567-8170</b> FAX: <b>810-364-9076</b>																																																					
County: <b>ASHLEY</b> City: <b>CROCKETT</b> State: <b>AR</b>																																																					
Sample Collected by (print): <b>DANNY / JIM / BOBIE</b>		NPDES Permit No.: <b>AR0001210</b>																																																			
Sample Collected by (signature): <i>[Signature]</i>		NPDES Test: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes		No. of Cntrs																																																	
Sample Location / ID	Comp/Grab	Container Type	Chilled During Collection (Y/N)	Start Date/Time	End Date/Time												Description	Sample B# (lab only)																																			
<b>RIVER</b>	<b>G</b>	<b>PUBLIC</b>	<b>NA</b>	<b>4-14-14</b> 10:31am		<b>2</b>	<b>20</b>											<b>1742</b>																																			
<b>ANFALLOO I</b>	<b>C</b>	<b>PUBLIC</b>	<b>YES</b>	<b>4-15-14</b> 6:18am	<b>4-16-14</b> 6:18am	<b>2</b>	<b>20</b>											<b>17472</b>																																			
* Matrix: SS - Soil GW - Groundwater WW - Wastewater AW - Ambient Water ML - Mixed Liquor SL - Sludge SD - Sediment OT - Other _____ Remarks: Measured TRC (if applicable): <b>0.00</b> mg/L																																																					
Relinquished by: (Signature) <i>[Signature]</i>		Date: <b>4-16-14</b>	Time: <b>3:00pm</b>	Received by: (Signature) <i>[Signature]</i>		Samples shipped via: <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Other Courier			UPS <input type="checkbox"/> Hand Delivered		Condition: (lab use only) <b>Good</b>																																										
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Receipt Temp: <b>12.5</b>		Containers/Volume Received: <b>2 10L</b>																																													
Relinquished by: (Signature)		Date:	Time:	Received to Lab by: (Signature) <i>[Signature]</i>		Date: <b>4/17/14</b>	Time: <b>0840</b>	pH upon arrival: <b>6.85, 7.88</b>		DO upon arrival: <b>6.5, 8.9</b>																																											

Sample Receipt Checklist:

Client: GPCrossetta

Date/Time received 4/17/14 0840 by CR

- 1. Cooler sealed and intact upon arrival?  Yes  No
- 2. Custody seals present?  Yes  No
- 3. Samples received below 6 degrees Celsius?  Yes  No
- 4. Was ice present?  Yes  No
- 5. Is the COC filled out correctly including the sample date/time and signed?  Yes  No
- 6. Was the sample received within 36 hours of collection?  Yes  No
- 7. Did the sample(s) arrive in good condition?  Yes  No
- 8. Was pH and DO measured and in range?  Yes  No
- 9. Was residual chlorine present?  
 > 1.0 mg/L? (did dechlor occur)  Yes  No


Comments:

Batch #	Sample ID	Temp (C°)	pH	DO	TRC
17421	River Water	10.2	6.85	8.5	0.07
17422	Effluent	10.5	7.83	8.9	0.24

\*used STD  
0.0

ENVIRON Test Log No. 16760

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Project Name:				Project Number:				<b>CHAIN-OF-CUSTODY</b>   201 Summit View Drive, Suite 300 Brentwood, TN 37027 PHONE: (615) 277-7570 FAX: (615) 377-4976											
Industry: <u>Georgia-Pacific Paper</u>																			
Phone: <u>870-567-8170</u> FAX: <u>800-364-9076</u>																			
County: <u>Ashley</u> City: <u>Crossett</u> State: <u>AR</u>																			
Sample Collected by (print):				NPDES Permit No.:				Total Volume in liters	Acute Fathead minnow	Acute Bannerrin shiner	Acute <i>Ceriodaphnia dubia</i>	Acute <i>Daphnia pulex</i>	Chronic Fathead minnow	Chronic <i>Ceriodaphnia dubia</i>	Continuous Batch Tests	Discrete Batch Tests	Other	Description	
Sample Collected by (signature):				NPDES Test: <input type="checkbox"/> No <input type="checkbox"/> Yes		No. of Cntrs	Definitive or Screen											Sample B# (lab only)	
Sample Location / ID	Comp/Grab	Container Type	Chilled During Collection (Y/N)	Start Date/Time	End Date/Time														
<u>RIVER</u>	<u>G</u>	<u>PLASTIC</u>	<u>NA</u>	<u>4-11-14</u> <u>10:31am</u>		<u>2</u>													
<u>WATER DO1</u>	<u>C</u>	<u>PLASTIC</u>	<u>YES</u>	<u>4-17-14</u> <u>6:18am</u>	<u>4-18-14</u> <u>6:17am</u>	<u>2</u>	<u>20</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
* Matrix: <b>SS</b> - Soil <b>GW</b> - Groundwater <b>WW</b> - Wastewater <b>AW</b> - Ambient Water <b>ML</b> - Mixed Liquor <b>SL</b> - Sludge <b>SD</b> - Sediment <b>OT</b> - Other _____ Remarks: Measured TRC (if applicable): <u>0.00</u> mg/L																			
Relinquished by: (Signature) <u>[Signature]</u>				Date: <u>4-18-14</u>		Time: <u>3:00pm</u>		Received by: (Signature) <u>[Signature]</u>				Samples shipped via: <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Other Courier <input type="checkbox"/> UPS Hand Delivered				Condition: (lab use only)			
Relinquished by: (Signature)				Date:		Time:		Received by: (Signature)				Receipt Temp: <u>10.30</u>		Containers/Volume Received: <u>20 L each</u>					
Relinquished by: (Signature)				Date:		Time:		Received for lab by: (Signature) <u>[Signature]</u>				Date: <u>4/15/14</u>		Time: <u>10:09</u>		pH upon arrival: <u>7.94, 7.66</u>		DO upon arrival: <u>3.8, 1.2</u>	

**Sample Receipt Checklist:**

Client: Georgia Pacific Crossett

Date/Time received 4/19/14 1009 by HM

- 1. Cooler sealed and intact upon arrival?  Yes  No
- 2. Custody seals present?  Yes  No
- 3. Samples received below 6 degrees Celsius?  Yes  No
- 4. Was ice present?  Yes  No
- 5. Is the COC filled out correctly including the sample date/time and signed?  Yes  No
- 6. Was the sample received within 36 hours of collection?  Yes  No
- 7. Did the sample(s) arrive in good condition?  Yes  No
- 8. Was pH and DO measured and in range?  Yes  No
- 9. Was residual chlorine present?  Yes  No
  - > 1.0 mg/L? (did dechlor occur)  Yes  No

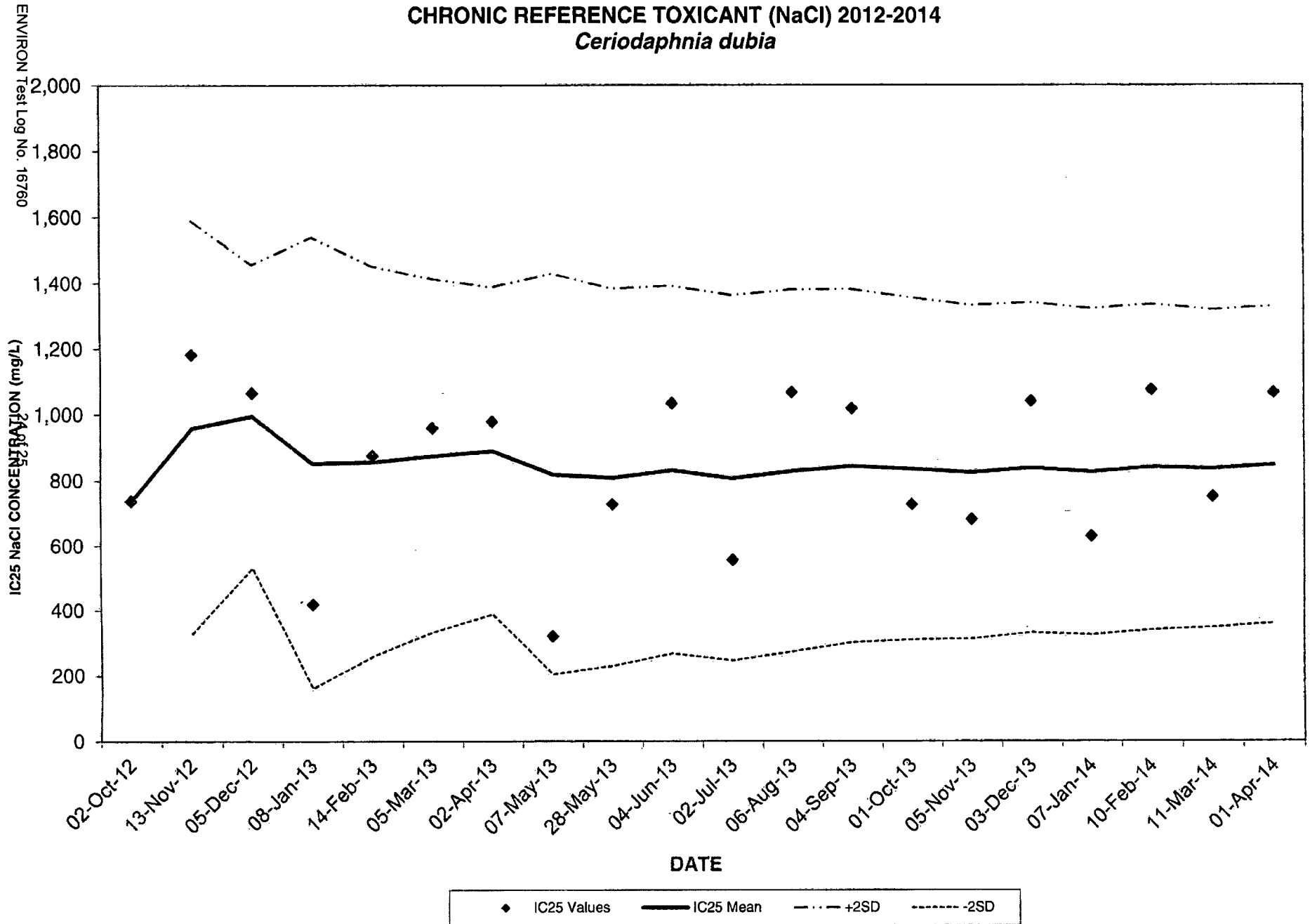
**Comments:**

Batch #	Sample ID	Temp (C°)	pH	DO	TRC
17426	out 1100	1.3	7.66	9.7	0.02
17427	RU	1.1	6.94	9.8	0.03

L:\Ecotox Lab\FORMS



CHRONIC REFERENCE TOXICANT (NaCl) 2012-2014  
*Ceriodaphnia dubia*



*Ceriodaphnia dubia* CHRONIC REFERENCE TOXICANT TESTING - SODIUM CHLORIDE (NaCl) 2012-2014

ENVIRON Test Log No. 16760

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Test Number	Log Number	Test Initiation Date	Control Survival (%) (*)	3 Brood Production (%) (*)	Control Average Repro (*)	Survival		Reproduction			IC25 VALUE (mg/L)	IC25 CUMULATIVE MEAN (mg/L)	IC25 ST. DEV. (mg/L)	IC25 2+ STD. DEV.	IC25 2- STD. DEV.	Coefficient of Variation (%)
						NOEC (mg/L)	LOEC (mg/L)	NOEC (mg/L)	LOEC (mg/L)	PMSD						
1	15653	02-Oct-12	100	100	34.8	2,000	>2,000	500	1,000	22.0	737	737				
2	15742	13-Nov-12	100	100	31.6	2,000	>2,000	1,000	2,000	10.4	1,183	960	315	1,591	329	23
3	15784	05-Dec-12	100	100	36.6	2,000	>2,000	500	1,000	12.8	1,067	996	231	1,458	533	19
4	15864	08-Jan-13	100	80	30.5	2,000	>2,000	250	500	24.3	420	852	344	1,540	163	35
5	15937	14-Feb-13	100	100	32.2	2,000	>2,000	500	1,000	18.1	875	856	298	1,453	260	31
6	15966	05-Mar-13	100	100	33.7	2,000	>2,000	500	1,000	21.8	960	874	270	1,414	333	28
7	16018	02-Apr-13	90	100	29.3	2,000	>2,000	500	1,000	16.8	979	889	250	1,388	389	26
8	16087	07-May-13	100	80	34.4	1,000	2,000	<125	125	27.3	321	818	306	1,430	205	35
9	16124	28-May-13	100	90	28.9	2,000	>2,000	500	1,000	20.5	727	808	288	1,384	232	34
10	16137	04-Jun-13	90	90	30.0	1,000	2,000	500	1,000	16.2	1,034	830	281	1,392	269	32
11	16188	02-Jul-13	100	80	21.5	2,000	>2,000	500	1,000	35.7	556	805	279	1,363	247	33
12	16257	06-Aug-13	100	90	29.1	1,000	2,000	500	1,000	24.9	1,068	827	277	1,380	274	32
13	16308	04-Sep-13	100	90	27.1	2,000	>2,000	500	1,000	14.6	1,018	842	270	1,382	302	31
14	16347	01-Oct-13	100	90	28.0	2,000	>2,000	1,000	2,000	26.0	726	834	261	1,356	311	30
15	16426	05-Nov-13	100	80	31.0	2,000	>2,000	250	500	27.1	681	823	255	1,333	314	30
16	16497	03-Dec-13	100	90	29.0	2,000	>2,000	500	1,000	12.3	1,041	837	252	1,341	333	29
17	16552	07-Jan-14	100	90	29.4	1,000	2,000	500	1,000	20.2	630	825	249	1,323	326	29
18	16630	10-Feb-14	100	100	31.1	1,000	2,000	500	1,000	13.4	1,076	839	249	1,337	341	29
19	16682	11-Mar-14	100	90	23.0	1,000	2,000	500	1,000	24.3	750	834	243	1,320	349	28
20	16730	01-Apr-14	100	100	28.8	2,000	>2,000	500	1,000	12.3	1,067	846	242	1,330	362	28

<b>Avg</b>	99	92	30	1684	632	500	1007	20	834	847	273	1399	306
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**Notes:**

NOEC - No Observable Effect Concentration (survival or reproduction)

LOEC - Lowest Observable Effect Concentration (survival or reproduction)

(\*) Minimum USEPA CONTROL CRITERIA - 80 percent survival, 80 percent with 3 broods, and average reproduction of 15 neonates/adult.

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Becky Blankenship  
Georgia-Pacific  
100 Supply Road  
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Crossett, AR 71635

Origin ID: ELDA



J14101402070326

Ship Date: 21MAY14  
Act/Wgt 1.0 LB  
CAD: 102767395/INET3490

Delivery Address Bar Code



SHIP TO: (501) 682-0718

BILL SENDER

**CRAIG UYEDA**  
ADEQ  
5301 NORTSHORE DR

NORTH LITTLE ROCK, AR 72118

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2 of 2

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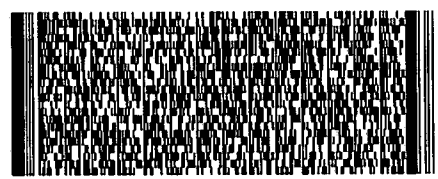
MPS# 7700 5747 9569



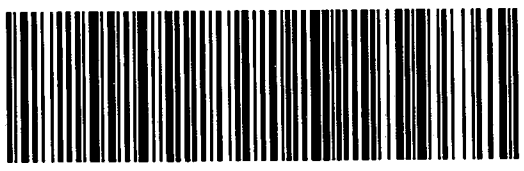
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