



June 30, 2020

Biomonitoring Testing  
for  
East Effluent

Control No. 246302-1

Prepared for:

Ms. Whitney Young  
City Water & Light of Jonesboro  
5205 Ingels Road  
Jonesboro, AR 72401

Prepared by:

AMERICAN INTERPLEX CORPORATION  
8600 Kanis Road  
Little Rock, AR 72204-2322



City Water & Light of Jonesboro  
ATTN: Ms. Whitney Young  
5205 Ingels Road  
Jonesboro, AR 72401

Re: *Ceriodaphnia dubia*  
East Effluent  
NPDES Permit No. AR0043401 AFIN16-00936

Dear Ms. Whitney Young:

This report is the analytical results and supporting information for the samples submitted to American Interplex Corporation (AIC). The following results are applicable only to the sample identified by the control number referenced above. Accurate assessment of the data requires access to the entire document. Each section of the report has been reviewed and approved by the Chief Operating Officer or qualified designee.

Testing procedures and Quality Assurance were in accordance with "Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" EPA-821-R-02-013, Fourth Edition, October 2002. Test results are summarized below:

Method 1002.0 Chronic *Ceriodaphnia dubia* Survival and Reproduction Test: The No Observable Effects Concentration (NOEC) for survival occurred at 100 % effluent, which is equal to the critical dilution of 100 %. The NOEC for reproduction occurred at 100 % effluent, which is above the sub-lethal limit of 80 %. **The sample, therefore, PASSED both lethal and sub-lethal effects for the *Ceriodaphnia dubia* test.**

AMERICAN INTERPLEX CORPORATION

A handwritten signature in black ink, appearing to read 'John Overbey', is written over a horizontal line.

John Overbey  
Chief Operating Officer

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City Water & Light of Jonesboro  
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City Water & Light of Jonesboro  
ATTN: Ms. Tamara Blankenship  
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I. Control Acceptance Criteria

*Ceriodaphnia dubia* Method 1002.0

CRITERIA	RESULTS	PASS/FAIL
Control Survival > or = 80%	90.0	PASS
Control Reproduction > or = 15 per Surviving Female	19.2	PASS
Control CV < or = 40% per Surviving Female	19.3	PASS
Reproduction Minimum Significant Difference 13 to 47%	31.9	PASS
Critical Dilution CV < or = 40%	26.4	PASS

II. Outlined Report

A. Introduction

1. Permit Number: AR0043401 AFIN16-00936
2. Test Requirements: Test Method 1002.0

B. Source of Effluent/Dilution Water:

1. Effluent Samples:
  - a. Sampling Point: East Effluent
  - b. Chemical Data:

Analysis	Sample 1	Sample 2	Sample 3
Dissolved oxygen (mg/l)	8.2	7.8	8.0
pH (standard units)	8.0	8.0	8.0
Alkalinity (mg/l as CaCO <sub>3</sub> )	170	160	160
Hardness (mg/l as CaCO <sub>3</sub> )	120	130	130
Conductivity (umhos/cm)	630	640	680
Residual Chlorine (mg/l)	<0.05	0.050	<0.05
Ammonia as N (mg/l)	0.14	0.22	0.14

2. Dilution Water Samples:  
Moderately Hard

Analysis	245991-1
Dissolved oxygen (mg/l)	8.0
pH (standard units)	7.9
Alkalinity (mg/l as CaCO <sub>3</sub> )	63
Hardness (mg/l as CaCO <sub>3</sub> )	82
Conductivity (umhos/cm)	290
Residual Chlorine (mg/l)	<0.05

C. Test Methods

1. Test methods used:

Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms, EPA-821-R-02-013; test Method 1002.0, *Ceriodaphnia dubia* Survival and Reproduction.

2. Endpoint: No Observable Effects Concentration (NOEC)

3. Test Conditions:

*Ceriodaphnia dubia* Survival and Reproduction Method 1002.0

Date & Time Test Initiated:	June 23, 2020 at 1135
Date & Time Test Terminated:	June 29, 2020 at 1130
Type & Volume of Test Chamber:	30 ml disposable beaker
Volume of Sample:	15 ml
Number of Organisms per replicate:	1
Number of Replicates per dilution:	10

4. Source of test organisms: Obtained from in-house cultures

5. Test Temperature: 25 +/- 1 degree Celsius

D. Test Organisms

1. Scientific Name

a. Test 1002.0 *Ceriodaphnia dubia*

III. Data Analysis

The data was analyzed using American Interplex Corporation's Laboratory Information Management Software based on Toxstat and following EPA method criteria.

*Ceriodaphnia dubia* survival data was analyzed with Fisher's Exact Test. Reproduction data was analyzed using Kolmogorov's Test for Normality and analyzed with Steel's Many-One Rank Test to determine the No Observable Effects Concentration (NOEC) for Reproduction. Dunnett's Test was used to calculate the PMSD.

#### IV. Standard Reference Toxicants

The sensitivity of the offspring is determined by performing a standard reference toxicant test monthly. Sodium chloride in synthetic moderately hard water is used as prescribed in EPA-821-R-02-013.

##### *Ceriodaphnia dubia*

A chronic reference test was performed on June 02, 2020 at 1155 to June 08, 2020 at 1255

The results were as follows: (Control No. 245673-2.)

Survival LC-50: 1673.1 mg/l

Reproduction IC-25: 1091 mg/l

Reproduction PMSD: 23.3

#### V. Organism History

##### *Ceriodaphnia dubia*

Date: June 23, 2020

Age: <24 hours

Source: In-house culture

Water: Moderately hard synthetic

Temperature: 25 deg.C

VII. Results Summary *Ceriodaphnia dubia*, Cladoceran Survival and Reproduction Test -- Method 1002.0

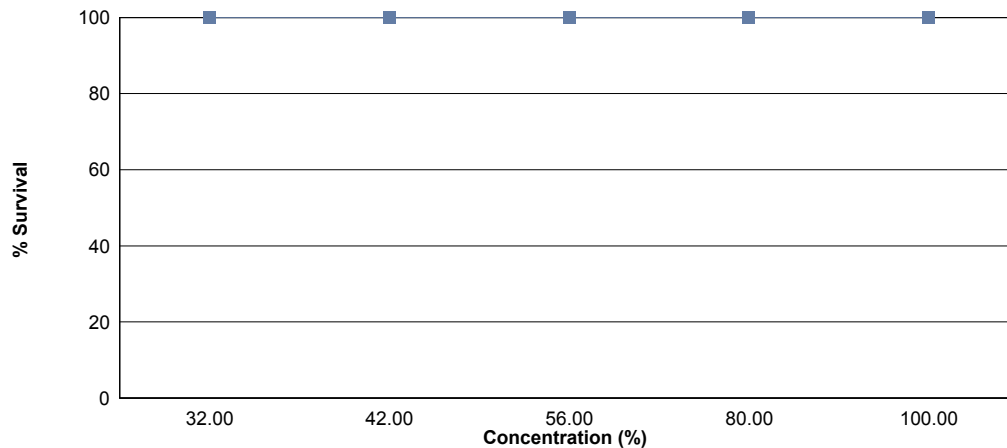
Neonates are exposed in a static renewal system to different concentrations of effluent with dilution water until 60% of surviving control organisms have three broods of offspring or a maximum of eight test days.

Effluent dilutions for this test were 32 %, 42 %, 56 %, 80 %, 100 % in accordance with the NPDES permit.

The low flow or 'critical' dilution is specified in the NPDES permit as 100 % effluent.

The test was initiated on June 23, 2020 at 1135 and continued through June 29, 2020 at 1130. Statistical analyses were performed on the observed data and the no observable effects concentrations (NOECs) were as follows:

- a.) NOEC survival = 100 % effluent
- b.) NOEC reproduction = 100 % effluent



Concentration	Percent Survival	Mean Reproduction
Control	90.0	18.0
32 %	100	22.0
42 %	100	21.8
56 %	100	21.2
80 %	100	23.6
100 %	100	22.9

Appendix A1: Test 1002.0

*Ceriodaphnia dubia* Survival and Reproduction

Date and Time Test Initiated: June 23, 2020 at 1135

Date and Time Test Terminated: June 29, 2020 at 1130

Concentration: Control														
Day	Replicate										No. of Young	No. of Adults	Young per Adult	
	1	2	3	4	5	6	7	8	9	10				
1	0	0	0	0	0	0	0	0	0	0	0	0	10	0.00
2	0	0	0	0	0	0	0	0	0	0	0	0	10	0.00
3	0	0	0	0	0	0	0	0	0	3	4	7	10	0.700
4	4	3	4	5	4	4	2	4	0	0	0	30	10	3.00
5	3X	8	10	8	7	7	10	8	7	7	7	75	9	8.33
6	X	0	9	11	8	7	8	8	8	8	9	68	9	7.56
7														
8														
TOTAL	7	11	23	24	19	18	20	20	18	20	180	10	18.0	

Concentration: 32 %														
Day	Replicate										No. of Young	No. of Adults	Young per Adult	
	1	2	3	4	5	6	7	8	9	10				
1	0	0	0	0	0	0	0	0	0	0	0	0	10	0.00
2	0	0	0	0	0	0	0	0	0	0	0	0	10	0.00
3	0	0	0	4	4	4	3	2	4	3	3	24	10	2.40
4	4	4	4	0	0	0	0	0	0	0	0	12	10	1.20
5	7	9	10	9	8	12	12	11	9	10	10	97	10	9.70
6	0	0	7	11	8	11	15	13	12	10	10	87	10	8.70
7														
8														
TOTAL	11	13	21	24	20	27	30	26	25	23	220	10	22.0	

Concentration: 42 %														
Day	Replicate										No. of Young	No. of Adults	Young per Adult	
	1	2	3	4	5	6	7	8	9	10				
1	0	0	0	0	0	0	0	0	0	0	0	0	10	0.00
2	0	0	0	0	0	0	0	0	0	0	0	0	10	0.00
3	0	0	3	3	4	4	4	4	4	4	3	29	10	2.90
4	4	3	0	0	0	0	0	0	0	0	0	7	10	0.700
5	7	8	11	11	8	10	9	10	10	10	9	93	10	9.30
6	0	5	9	10	8	12	13	11	11	10	10	89	10	8.90
7														
8														
TOTAL	11	16	23	24	20	26	26	25	25	22	218	10	21.8	



Appendix A1: Test 1002.0

*Ceriodaphnia dubia* Survival and Reproduction

Date and Time Test Initiated: June 23, 2020 at 1135

Date and Time Test Terminated: June 29, 2020 at 1130

Concentration: 56 %														
Day	Replicate										No. of Young	No. of Adults	Young per Adult	
	1	2	3	4	5	6	7	8	9	10				
1	0	0	0	0	0	0	0	0	0	0	0	0	10	0.00
2	0	0	0	0	0	0	0	0	0	0	0	0	10	0.00
3	0	0	0	0	3	4	3	4	4	4	4	22	10	2.20
4	3	2	2	3	0	0	0	0	0	0	0	10	10	1.00
5	6	8	10	10	10	12	9	10	11	9	95	10	9.50	
6	0	0	9	11	11	10	9	12	12	11	85	10	8.50	
7														
8														
TOTAL	9	10	21	24	24	26	21	26	27	24	212	10	21.2	

Concentration: 80 %														
Day	Replicate										No. of Young	No. of Adults	Young per Adult	
	1	2	3	4	5	6	7	8	9	10				
1	0	0	0	0	0	0	0	0	0	0	0	0	10	0.00
2	0	0	0	0	0	0	0	0	0	0	0	0	10	0.00
3	0	0	3	3	4	4	3	3	3	2	25	10	2.50	
4	4	4	0	0	0	0	0	0	0	4	12	10	1.20	
5	11	9	10	11	10	10	9	9	11	10	100	10	10.0	
6	0	11	14	14	13	9	5	10	12	11	99	10	9.90	
7														
8														
TOTAL	15	24	27	28	27	23	17	22	26	27	236	10	23.6	

Concentration: 100 %														
Day	Replicate										No. of Young	No. of Adults	Young per Adult	
	1	2	3	4	5	6	7	8	9	10				
1	0	0	0	0	0	0	0	0	0	0	0	0	10	0.00
2	0	0	0	0	0	0	0	0	0	0	0	0	10	0.00
3	0	0	3	2	2	3	3	3	3	0	19	10	1.90	
4	4	3	0	0	0	0	0	0	0	4	11	10	1.10	
5	10	8	12	11	10	11	8	11	9	0	90	10	9.00	
6	0	11	13	15	9	13	14	11	16	7	109	10	10.9	
7														
8														
TOTAL	14	22	28	28	21	27	25	25	28	11	229	10	22.9	

Appendix A2: Statistics

*Ceriodaphnia dubia* Survival

Fisher's Exact Test			
Identification	Dead	Alive	Total Animals
Control	1	9	10
32 %	0	10	10
Total	1	19	20

Critical Fisher's value (10,10,1) (alpha=0.05) is negative. b value is 0. NO SIGNIFICANT DIFFERENCE.

Fisher's Exact Test			
Identification	Dead	Alive	Total Animals
Control	1	9	10
42 %	0	10	10
Total	1	19	20

Critical Fisher's value (10,10,1) (alpha=0.05) is negative. b value is 0. NO SIGNIFICANT DIFFERENCE.

Fisher's Exact Test			
Identification	Dead	Alive	Total Animals
Control	1	9	10
56 %	0	10	10
Total	1	19	20

Critical Fisher's value (10,10,1) (alpha=0.05) is negative. b value is 0. NO SIGNIFICANT DIFFERENCE.

Fisher's Exact Test			
Identification	Dead	Alive	Total Animals
Control	1	9	10
80 %	0	10	10
Total	1	19	20

Critical Fisher's value (10,10,1) (alpha=0.05) is negative. b value is 0. NO SIGNIFICANT DIFFERENCE.

Appendix A2: Statistics

*Ceriodaphnia dubia* Survival

Fisher's Exact Test			
Identification	Dead	Alive	Total Animals
Control	1	9	10
100 %	0	10	10
Total	1	19	20

Critical Fisher's value (10,10,1) (alpha=0.05) is negative. b value is 0. NO SIGNIFICANT DIFFERENCE.

Summary of Fisher's Exact Test				
Group	Identification	Exposed	Dead	Sig 0.05
0	Control	10	1	
1	32 %	10	0	
2	42 %	10	0	
3	56 %	10	0	
4	80 %	10	0	
5	100 %	10	0	

Appendix A2: Statistics

*Ceriodaphnia dubia* Reproduction

Kolmogorov Test for Normality	No Transformation
<p>D = 0.1813 D* = 1.422 Critical D* = 1.035 (alpha = 0.01, N = 60)</p> <p>Data FAIL normality test (alpha = 0.01).</p>	

Steel's Many-One Rank Test				No Transformation	
Ho:Control<Treatment					
Group	Identification	Rank Sum	Critical Value	DF	Sig 0.05
1	Control				
2	32 %	131.00	75.00	10.00	
3	42 %	131.00	75.00	10.00	
4	56 %	131.50	75.00	10.00	
5	80 %	135.00	75.00	10.00	
6	100 %	134.50	75.00	10.00	
Critical values are 1 tailed (k=5)					

Appendix A2: Statistics

*Ceriodaphnia dubia* Reproduction

Dunnett's Test for PMSD Calculation

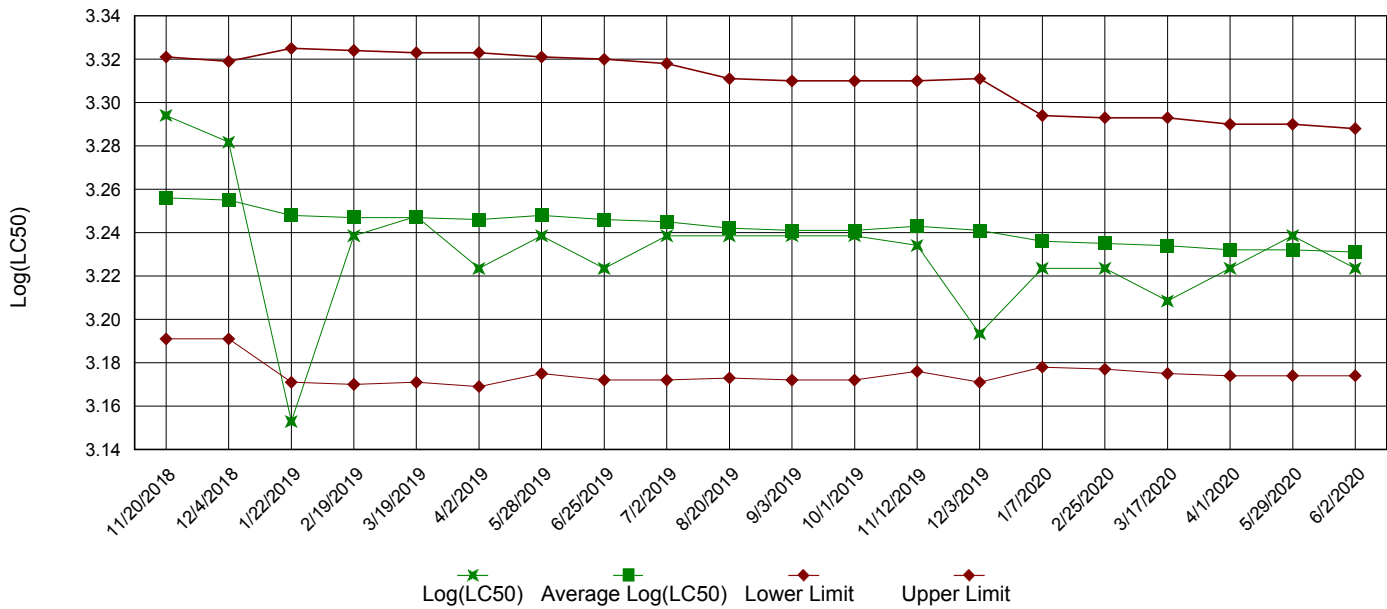
ANOVA Table				No Transformation	
SOURCE	DF	SS	MS	F	
Between	5	190.1	38.02	1.228	
Within (Error)	54	1672	30.96		
Total	59	1863			
Critical F = 3.38 (alpha = 0.01, df = 5,54) 2.38 (alpha = 0.05, df = 5,54)					
Since F < Critical F FAIL TO REJECT Ho: All equal (alpha = 0.05)					

Dunnett's Test - Table 1 of 2					No Transformation	
Ho:Control<Treatment						
Group	Identification	Transformed Mean	Mean In Original Units	T Stat	Sig 0.05	
1	Control	18	18			
2	32 %	22	22	-1.607		
3	42 %	21.8	21.8	-1.527		
4	56 %	21.2	21.2	-1.286		
5	80 %	23.6	23.6	-2.25		
6	100 %	22.9	22.9	-1.969		
Dunnett's critical value = 2.31 (1 Tailed, alpha = 0.05, df [used] = 5,40) (Actual df = 5,54)						

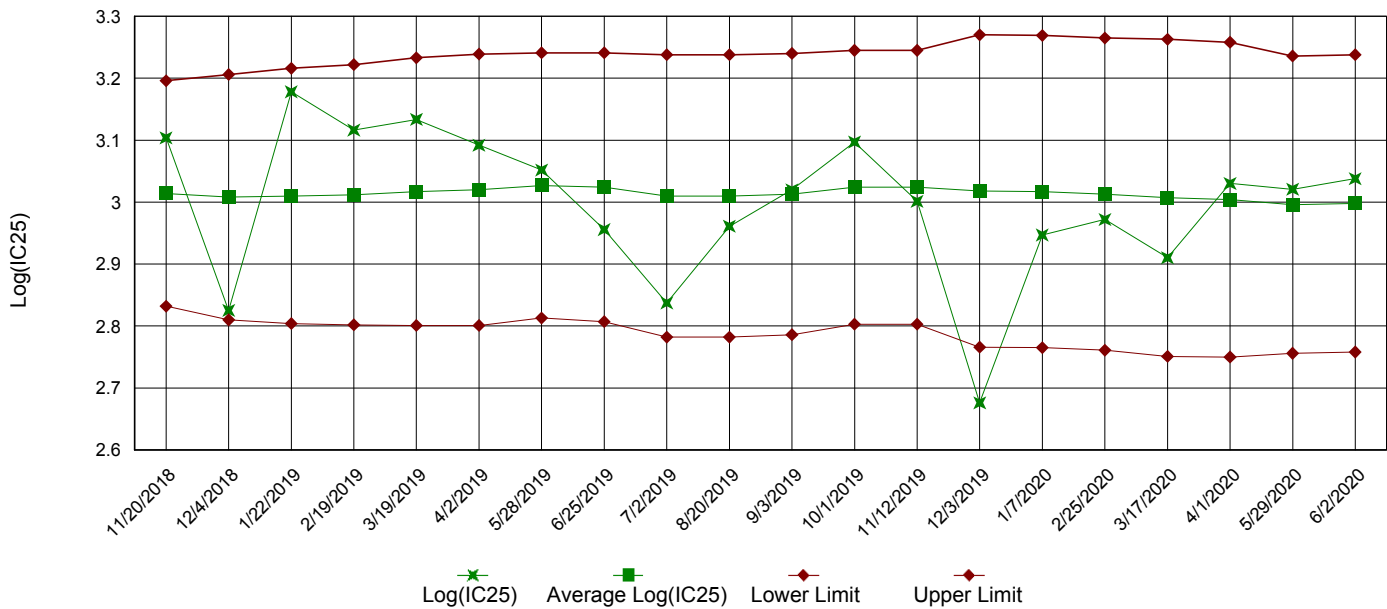
Dunnett's Test - Table 2 of 2					No Transformation	
Ho:Control<Treatment						
Group	Identification	Num of Reps	Min Sig Diff (In Orig. Units)	% of Control	Difference From Control	
1	Control	10				
2	32 %	10	5.748	31.9	-4	
3	42 %	10	5.748	31.9	-3.8	
4	56 %	10	5.748	31.9	-3.2	
5	80 %	10	5.748	31.9	-5.6	
6	100 %	10	5.748	31.9	-4.9	

Appendix A3: Test 1002.0  
Chronic Reference Toxicant, *Ceriodaphnia dubia*

LC50 Survival Data



IC25 Reproduction Data



Appendix B: Test 1002.0  
SUMMARY REPORTING FORMS  
CHRONIC BIOMONITORING  
*Ceriodaphnia dubia*  
SURVIVAL AND REPRODUCTION

Permittee: City Water & Light of Jonesboro

NPDES No.: AR0043401 AFIN16-00936

Date and Time Test Initiated: June 23, 2020 at 1135

Date and Time Test Terminated: June 29, 2020 at 1130

Dilution water used: Moderately Hard

PERCENT SURVIVAL

Time of Reading	Control	Percent Effluent				
		32 %	42 %	56 %	80 %	100 %
24 hour	100	100	100	100	100	100
48 hour	100	100	100	100	100	100
6 day	90.0	100	100	100	100	100

NUMBER OF YOUNG PRODUCED PER FEMALE @ 6 DAYS

Replicates	Control	Percent Effluent				
		32 %	42 %	56 %	80 %	100 %
A	7	11	11	9	15	14
B	11	13	16	10	24	22
C	23	21	23	21	27	28
D	24	24	24	24	28	28
E	19	20	20	24	27	21
F	18	27	26	26	23	27
G	20	30	26	21	17	25
H	20	26	25	26	22	25
I	18	25	25	27	26	28
J	20	23	22	24	27	11
Mean per Adult	18.0	22.0	21.8	21.2	23.6	22.9
Mean per Surviving Adult	19.2	22.0	21.8	21.2	23.6	22.9
CV %	19.3	27.4	22.5	30.6	19.0	26.4

CV = Coefficient of variation = standard deviation \* 100 / mean  
(calculated based on young produced by surviving females)



Appendix B: Test 1002.0  
SUMMARY REPORTING FORMS  
CHRONIC BIOMONITORING  
*Ceriodaphnia dubia*  
SURVIVAL AND REPRODUCTION

1. Fisher's Exact Test:

Is the mean survival significantly different ( $p=0.05$ ) than the control survival for the % effluent corresponding to (lethality):

a.) LOW FLOW OR CRITICAL DILUTION	(100 %)	<u>      </u> YES	<u>  X  </u> NO
b.) 1/2 LOW FLOW DILUTION	(NA)	<u>      </u> YES	<u>      </u> NO

2. Steel's Many-One Rank Test:

Is the mean number of young produced per female significantly different ( $p=0.05$ ) than the control's number of young per female for the % effluent corresponding to (significant non-lethal effects):

a.) LOW FLOW OR CRITICAL DILUTION	(100 %)	<u>      </u> YES	<u>  X  </u> NO
b.) 1/2 LOW FLOW DILUTION	(NA)	<u>      </u> YES	<u>      </u> NO

3. If you answered NO to 1.a) enter [0] otherwise enter [1]:   0   (TLP3B)
4. If you answered NO to 2.a) enter [0] otherwise enter [1]:   0   (TGP3B)
5. NOEC *Ceriodaphnia* Lethality:  100 %  (TOP3B)
6. LOEC *Ceriodaphnia* Lethality:  100 %  (TXP3B)
7. NOEC *Ceriodaphnia* Sublethality:  100 %  (TPP3B)
8. LOEC *Ceriodaphnia* Sublethality:  100 %  (TYP3B)
9. Coefficient of variation for *Ceriodaphnia* Reproduction:  26.4  (TQP3B)
10. Lethality for this test:  100 %  (51710 or 51710P)
11. Sublethality for this test:  100 %  (51710 or 51710Q)

Appendix B: Test 1002.0  
CHRONIC TOXICITY SUMMARY FORM  
*Ceriodaphnia dubia*  
CHEMICAL PARAMETERS CHART

PERMITTEE: City Water & Light of Jonesboro  
NPDES NO.: AR0043401 AFIN16-00936  
CONTACT: Ms. Whitney Young  
ANALYST: 280, 310, 343, 345

Test Initiated: DATE: June 23, 2020 TIME: 1135  
Test Terminated: DATE: June 29, 2020 TIME: 1130

DILUTION	DAY						
	1	2	3	4	5	6	7
Control							
D.O. Initial	8.0	7.3	7.5	7.3	7.3	6.9	7.2
Final	7.6	7.6	7.2	7.5	7.8	7.2	--
pH Initial	7.9	7.9	8.0	7.9	8.0	8.1	8.1
Final	8.5	8.3	8.2	8.3	8.4	8.4	--

DILUTION	DAY						
	1	2	3	4	5	6	7
32 %							
D.O. Initial	7.9	7.3	7.8	7.6	7.6	7.2	7.5
Final	7.8	7.4	7.6	7.8	7.4	7.8	--
pH Initial	8.0	7.9	8.0	7.9	8.0	8.3	8.1
Final	8.5	8.4	8.4	8.5	8.6	8.6	--

DILUTION	DAY						
	1	2	3	4	5	6	7
42 %							
D.O. Initial	7.8	7.1	7.6	7.3	7.8	7.4	7.6
Final	7.8	7.7	7.4	7.7	7.8	7.8	--
pH Initial	8.0	7.9	8.0	8.0	8.1	8.4	8.2
Final	8.6	8.5	8.4	8.5	8.7	8.7	--

DILUTION	DAY						
	1	2	3	4	5	6	7
56 %							
D.O. Initial	8.1	7.4	7.7	7.3	7.6	7.2	7.5
Final	7.7	7.6	7.4	7.7	7.5	7.2	--
pH Initial	8.0	7.9	8.0	8.0	8.1	8.4	8.2
Final	8.6	8.5	8.5	8.5	8.6	8.6	--

DILUTION	DAY						
	1	2	3	4	5	6	7
80 %							
D.O. Initial	8.2	7.3	7.7	7.4	7.7	7.0	7.3
Final	7.9	7.6	7.4	7.8	7.3	7.6	--
pH Initial	8.0	8.0	7.9	7.9	8.0	8.5	8.2
Final	8.7	8.6	8.5	8.6	8.7	8.7	--

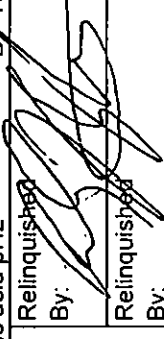

DILUTION	DAY						
	1	2	3	4	5	6	7
100 %							
D.O. Initial	8.2	7.2	7.8	7.5	8.0	7.4	7.5
Final	8.0	7.8	7.4	8.0	7.3	7.6	--
pH Initial	8.0	8.0	8.0	8.0	8.0	8.6	8.1
Final	8.7	8.7	8.6	8.7	8.8	8.8	--

Alkalinity	Hardness	Conductivity	Chlorine	Sample ID
170	120	630	<0.05	East Effluent 22-JUN-20
160	130	640	0.050	East Effluent 24-JUN-20
160	130	680	<0.05	East Effluent 26-JUN-20

Alkalinity	Hardness	Conductivity	Chlorine	Sample ID
63	82	290	<0.05	245991-1

CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

PAGE 1 OF 3

Client: <b>Jonesboro CWL</b>		PO No.		ANALYSES REQUESTED												AIC CONTROL NO: <b>12/14/302</b>	
Project Reference: <b>WET TESTING</b>		SAMPLE MATRIX														AIC PROPOSAL NO:	
Project Manager: <b>Whitney Young</b>		WATER														Carrier:	
Sampled By: _____		SOIL														Received Temperature C <b>0.12.1</b>	
AIC No.		GRA B														Remarks	
Sample Identification		COM P														w/ UV Treatment	
Date/Time Collected		X														Field pH calibration on _____ @ _____ Buffer: _____	
Sample 1: <b>EAST EFFLUENT</b>		X														T = Sodium Thiosulfate	
Date/Time Collected: <b>6/21-22/20 10:00-9:00AM</b>		X														Z = Zinc acetate	
Sample 2: <b>WEST EFFLUENT</b>		X														H = HCl to pH2	
Date/Time Collected: <b>6/21-22/20 10:00-9:00AM</b>		X														B = NaOH to pH12	
Container Type																Relinquished By: 	
Preservative																Date/Time: <b>6/22/20 1:08pm</b>	
G = Glass																Received in Lab By: 	
NO = none																Date/Time: <b>6/22/20 1:08pm</b>	
P = Plastic																Relinquished By: _____	
S = Sulfuric acid pH2																Comments: <b>* Analyze West Effluent with UV treatment</b>	
Turnaround Time Requested: (Please circle) _____																Who should AIC contact with questions: _____	
NORMAL or EXPEDITED IN _____ DAYS																Phone: _____	
Expedited results requested by: _____																Report Attention to: _____	
Who should AIC contact with questions: _____																Report Address to: _____	
Phone: _____																Fax: _____	
Report Attention to: _____																8/01	
Report Address to: _____																FORM 0060	



CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

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Client: JONESBORO CWL		AIC CONTROL NO: 246302		AIC PROPOSAL NO:	
Project Reference: WET TESTING		Carrier: CWL		Received Temperature C: 2.7	
Project Manager: Whitney Young		Remarks: w/UV treatment			
Sampled By: RSL/JH		Field pH calibration on @		Buffer:	
AIC No. 3		NO OF BOTTLES		ANALYSES REQUESTED	
Sample Identification		SAMPLE MATRIX		Date/Time Collected	
EAST EFFLUENT		WATER		0125-20120 10:00-9:00AM	
WEST EFFLUENT		WATER		0125-20120 10:00-9:00AM	
WEST INFLUENT		WATER		0115-10120 10:00-9:00AM	
WEST INFLUENT		WATER		0123-24120 10:00-9:00AM	
PICKLING EFFLUENT		WATER		0124-25120 8:00-8:00AM	
Sample Date/Time		GRA B		COM P	
		X		X	
		X		X	
		X		X	
		X		X	
		X		X	
Container Type		P = Plastic		V = VOA vials	
Preservative		NO = none		N = Nitric acid pH2	
		S = Sulfuric acid pH2		H = HCl to pH2	
				B = NaOH to pH12	
Turnaround Time Requested: (Please circle)		Relinquished By: PACTE BATE		Date/Time: 6/26/20 12:00	
NORMAL or EXPEDITED IN ___ DAYS		Relinquished By: [Signature]		Date/Time: 6-26-20	
Expedited results requested by:		Received in Lab By: DANNY BROWN		Date/Time: 6-26-20	
Who should AIC contact with questions:		Comments: 1 x West Effluent: P. promelas w/UV treatment			
Phone:		Fax:			
Report Attention to:		Report Address to:			