

 **ANALYTICAL REPORT****PREPARED FOR**

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El Dorado Chemical Company
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JOB DESCRIPTION

010 Quarterly Biomonitoring

JOB NUMBER

192-6597-1

Eurofins Arkansas

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Job Notes

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Authorization



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Re: *Pimephales promelas* (Fathead minnow) and *Ceriodaphnia dubia*
Outfall 010 - El Dorado, AR
NPDES Permit No. AR0000752
Control No. 274735-1

This report is the analytical results and supporting information for the samples submitted to Eurofins Arkansas. 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 Laboratory Manager 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. The supporting chemistry data included with this report is intended for accessing the basic water quality of the effluent as required by this test method and is not intended to be utilized for discharge monitoring reports. Test results are summarized below:

Method 1000.0 Chronic *Pimephales promelas* (Fathead minnow) Survival and Growth Test: The permit requirement is NOEC not less than 1.6%. The following were concluded from the test:

Survival:	NOEC	LOEC	Growth:	NOEC	LOEC	IC25
	2.1	>2.1		2.1	>2.1	>2.1

The sample therefore PASSED the Fathead minnow test.

Method 1002.0 Chronic *Ceriodaphnia dubia* Survival and Reproduction Test: The permit requirement is NOEC not less than 1.6%. The following were concluded from the test:

Survival:	NOEC	LOEC	Reproduction:	NOEC	LOEC	IC25
	2.1	>2.1		2.1	>2.1	>2.1

The sample therefore PASSED the *Ceriodaphnia dubia* test.

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I. Control Acceptance Criteria
Pimephales promelas (Fathead minnow) Method 1000.0

CRITERIA	RESULTS	PASS/FAIL
Control Survival > or = 80%	95.0	PASS
Control Growth > or = 0.25 mg per Surviving minnow	0.548	PASS
Control Growth CV < or = 40% *	18.9	PASS
Growth Minimum Significant Difference 12 to 30%	18.3	PASS
Critical Dilution CV < or = 40% *	8.41	PASS

* EPA Region 6 Requirement

Ceriodaphnia dubia Method 1002.0

CRITERIA	RESULTS	PASS/FAIL
Control Survival > or = 80%	100	PASS
Control Reproduction > or = 15 per Surviving Female	32.9	PASS
Control CV < or = 40% per Surviving Female *	12.4	PASS
Reproduction Minimum Significant Difference 13 to 47%	26.9	PASS
Critical Dilution CV < or = 40% *	8.24	PASS

* EPA Region 6 Requirement

II. Outlined Report
A. Introduction

1. Permit Number: AR0000752
2. Test Requirements: Test Methods 1000.0 and 1002.0

B. Source of Effluent/Dilution Water:
1. Effluent Samples:

- a. Sampling Point: Outfall 010
- b. Chemical Data:

Analysis	Sample 1	Sample 2	Sample 3
Dissolved oxygen (mg/l)	7.6	7.4	8.4
pH (standard units)	7.0	6.8	7.0
Alkalinity (mg/l as CaCO ₃)	9.8	11	12
Hardness (mg/l as CaCO ₃)	54	60	66
Conductivity (umhos/cm)	1000	1100	1100
Residual Chlorine (mg/l)	0.050	<0.05	<0.05
Ammonia as N (mg/l)	37	<0.10	45

2. Dilution Water Samples:

Analysis	192-6297-A-1	192-6417-A-1	192-6603-A-2
Dissolved oxygen (mg/l)	7.7	7.8	8.0
pH (standard units)	7.7	7.6	7.5
Alkalinity (mg/l as CaCO ₃)	32	31	31
Hardness (mg/l as CaCO ₃)	43	41	40
Conductivity (umhos/cm)	170	160	160
Residual Chlorine (mg/l)	<0.05	<0.05	<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 Methods 1000.0 and 1002.0, Fathead Minnow Survival and Growth and *Ceriodaphnia dubia* Survival and Reproduction.

2. Endpoint: No Observable Effects Concentration (NOEC)

3. Test Conditions:

Pimephales promelas (Fathead minnow) Survival and Growth Method 1000.0

Date & Time Test Initiated: November 6, 2023 at 1704
Date & Time Test Terminated: November 13, 2023 at 1525
Type & Volume of Test Chamber: 500 ml disposable beaker
Volume of Sample: 250 ml
Number of Organisms per replicate: 8
Number of Replicates per dilution: 5

Ceriodaphnia dubia Survival and Reproduction Method 1002.0

Date & Time Test Initiated: November 6, 2023 at 1652
Date & Time Test Terminated: November 13, 2023 at 1728
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: In-house culture

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

D. Test Organisms

1. Scientific Name

- a. Test 1000.0 *Pimephales promelas*
- b. Test 1002.0 *Ceriodaphnia dubia*

III. Data Analysis

The data was analyzed using EPA method criteria and CETIS statistical software.

IV. Standard Reference Toxicants

Sodium chloride in synthetic moderately hard water.

Pimephales promelas (Fathead minnow)

A chronic reference test was performed on October 02, 2023 at 1446 to October 09, 2023 at 1508

The results were as follows: (Control No. 274688-1.)

Survival LC-50: 3132 mg/l

Growth IC-25: 2000 mg/l

Growth PMSD: 0

Ceriodaphnia dubia

A chronic reference test was performed on October 03, 2023 at 1027 to October 09, 2023 at 1210

The results were as follows: (Control No. 274688-2.)

Survival LC-50: 1731 mg/l

Reproduction IC-25: 1146 mg/l

Reproduction PMSD: 13.7

V. Organism History

Pimephales promelas (Fathead minnow)

Date: November 6, 2023

Age: <24 hours

Source: In-house culture

Water: Moderately hard synthetic

Temperature: 25 deg.C

Ceriodaphnia dubia

Date: November 6, 2023

Age: <24 hours

Source: In-house culture

Water: Moderately hard synthetic

Temperature: 25 deg.C

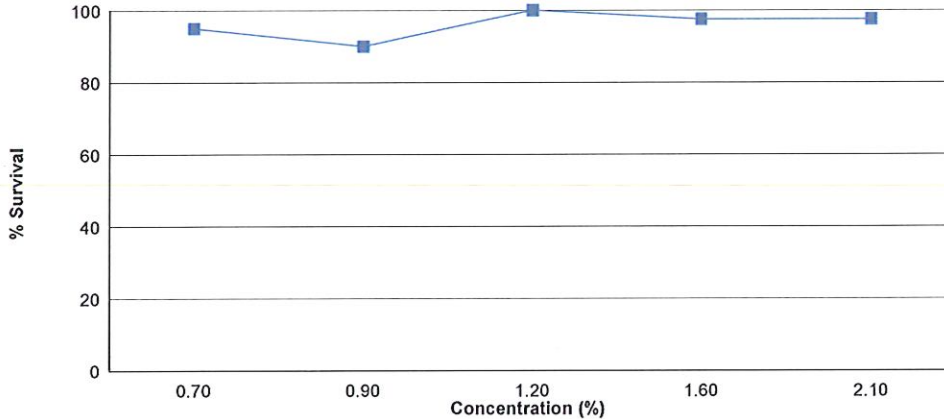
VI. Results Summary *Pimephales promelas*, Fathead minnow Larval Survival and Growth Test -- Method 1000.0

Larvae are exposed in a static renewal system for seven days to different concentrations of effluent with dilution water. Test results are based on the survival and growth (weight) of the larvae.

Effluent concentrations for this test were 0.7 %, 0.9 %, 1.2 %, 1.6 %, 2.1 % in accordance with the NPDES permit.

The test was initiated on November 6, 2023 at 1704 and continued through November 13, 2023 at 1525. Statistical analyses were performed on the observed data and the no observable effects concentrations (NOECs) were as follows:

- a.) NOEC survival = 2.1 % effluent
- b.) NOEC growth = 2.1 % effluent



Summary of the 7-day Fathead Minnow Survival and Growth		
Concentration	Percent Survival	Mean Growth (mg)
Control	95.0	0.521
0.7 %	95.0	0.514
0.9 %	90.0	0.476
1.2 %	100	0.519
1.6 %	97.5	0.497
2.1 %	97.5	0.519

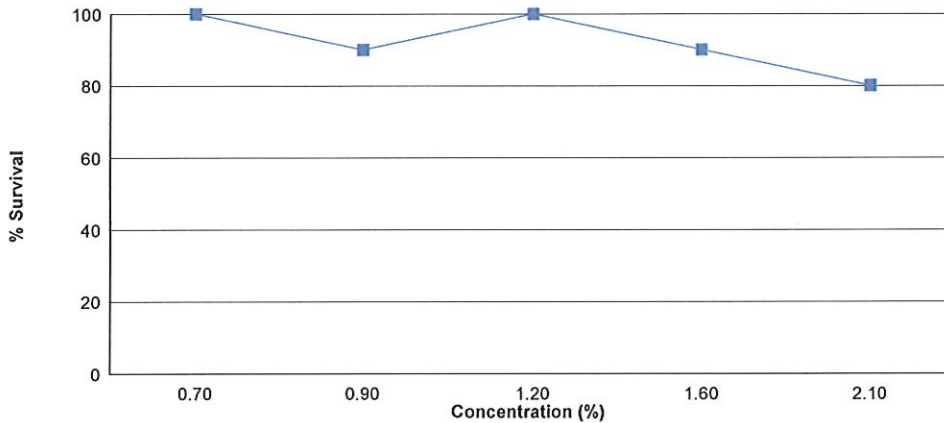
VI. Results Summary *Ceriodaphnia dubia*, Cladoceran Survival and Reproduction Test -- Method 1002.0

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 concentrations for this test were 0.7 %, 0.9 %, 1.2 %, 1.6 %, 2.1 % in accordance with the NPDES permit.

The test was initiated on November 6, 2023 at 1652 and continued through November 13, 2023 at 1728. Statistical analyses were performed on the observed data and the no observable effects concentrations (NOECs) were as follows:

- a.) NOEC survival = 2.1 % effluent
- b.) NOEC reproduction = 2.1 % effluent



Concentration	Percent Survival	Mean Reproduction
Control	100	32.9
0.7 %	100	33.5
0.9 %	90.0	30.3
1.2 %	100	33.3
1.6 %	90.0	31.9
2.1 %	80.0	28.0

Appendix (Data): Test 1000.0

Pimephales promelas (Fathead Minnow) 7-Day Survival

Date and Time Test Initiated: November 6, 2023 at 1704

Date and Time Test Terminated: November 13, 2023 at 1525

Concentration Replicate		Number of Survivors						
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
Control	A	8	8	8	8	8	8	8
	B	8	7	7	7	7	7	7
	C	8	8	8	8	8	8	8
	D	8	8	8	8	8	8	8
	E	8	8	8	8	8	7	7
0.7 %	A	8	8	8	8	8	8	8
	B	8	8	8	8	8	7	7
	C	8	8	8	8	8	8	8
	D	7	7	7	7	7	7	7
	E	8	8	8	8	8	8	8
0.9 %	A	8	8	8	8	8	8	8
	B	8	8	8	8	8	7	7
	C	8	8	8	8	8	8	8
	D	8	8	6	6	6	6	6
	E	8	8	7	7	7	7	7
1.2 %	A	8	8	8	8	8	8	8
	B	8	8	8	8	8	8	8
	C	8	8	8	8	8	8	8
	D	8	8	8	8	8	8	8
	E	8	8	8	8	8	8	8
1.6 %	A	8	8	7	7	7	7	7
	B	8	8	8	8	8	8	8
	C	8	8	8	8	8	8	8
	D	8	8	8	8	8	8	8
	E	8	8	8	8	8	8	8
2.1 %	A	8	8	8	8	8	8	8
	B	8	8	8	8	8	7	7
	C	8	8	8	8	8	8	8
	D	8	8	8	8	8	8	8
	E	8	8	8	8	8	8	8

Appendix (Data): Test 1000.0

Pimephales promelas (Fathead Minnow) 7-Day Growth

Test Initiated: November 6, 2023 at 1704

Test Terminated: November 13, 2023 at 1525

Concentration	Replicate	Weight of pan	Weight of pan + fish	Total weight of fish (g)	Original # of fish	Mean dry weight (mg)
Control	A	.76424	.76915	0.00491	8	0.614
	B	.76055	.76473	0.00418	8	0.522
	C	.75847	.76339	0.00492	8	0.615
	D	.76492	.76869	0.00377	8	0.471
	E	.77630	.77937	0.00307	8	0.384
0.7 %	A	.76224	.76659	0.00435	8	0.544
	B	.75237	.75585	0.00348	8	0.435
	C	.75371	.75774	0.00403	8	0.504
	D	.76148	.76611	0.00463	8	0.579
	E	.76837	.77244	0.00407	8	0.509
0.9 %	A	.76934	.77372	0.00438	8	0.548
	B	.76785	.77161	0.00376	8	0.470
	C	.76826	.77277	0.00451	8	0.564
	D	.75266	.75581	0.00315	8	0.394
	E	.76820	.77144	0.00324	8	0.405
1.2 %	A	.75278	.75694	0.00416	8	0.520
	B	.76139	.76555	0.00416	8	0.520
	C	.74943	.75314	0.00371	8	0.464
	D	.75369	.75801	0.00432	8	0.540
	E	.74773	.75212	0.00439	8	0.549
1.6 %	A	.74730	.75117	0.00387	8	0.484
	B	.76505	.76882	0.00377	8	0.471
	C	.76632	.77011	0.00379	8	0.474
	D	.74308	.74696	0.00388	8	0.485
	E	.74594	.75051	0.00457	8	0.571
2.1 %	A	.75060	.75482	0.00422	8	0.528
	B	.76098	.76445	0.00347	8	0.434
	C	.76499	.76902	0.00403	8	0.504
	D	.76244	.76688	0.00444	8	0.555
	E	.75082	.75542	0.00460	8	0.575

Appendix (Data): Test 1002.0

Ceriodaphnia dubia Survival and Reproduction

Date and Time Test Initiated: November 6, 2023 at 1652

Date and Time Test Terminated: November 13, 2023 at 1728

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	10	0.00
2	0	0	0	0	0	0	0	0	0	0	0	10	0.00
3	0	0	0	0	0	0	0	0	0	0	0	10	0.00
4	5	4	5	7	5	4	6	6	4	4	50	10	5.00
5	11	9	0	12	13	9	11	9	8	10	92	10	9.20
6	0	0	9	0	0	12	0	0	0	0	21	10	2.10
7	16	19	18	18	20	18E	21	19	17	18	166	10	16.6
8													
TOTAL	32	32	32	37	38	25	38	34	29	32	329	10	32.9

E = Excluded fourth brood neonates

Concentration: 0.7 %													
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	10	0.00
2	0	0	0	0	0	0	0	0	0	0	0	10	0.00
3	0	0	0	0	0	0	0	0	0	0	0	10	0.00
4	3	4	5	3	5	6	5	5	5	4	45	10	4.50
5	11	12	0	9	12	13	10	10	11	0	88	10	8.80
6	0	0	10	0	0	0	0	0	0	11	21	10	2.10
7	17	18	20	18	20	16	17	18	20	17	181	10	18.1
8													
TOTAL	31	34	35	30	37	35	32	33	36	32	335	10	33.5

Concentration: 0.9 %													
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	10	0.00
2	0	0	0	0	0	0	0	0	0	0	0	10	0.00
3	0	0	0	0	0	0	0	0	0	0	0	10	0.00
4	5	6	4	5	5	3X	6	4	3	4	45	9	5.00
5	9	11	12	10	12	X	9	10	11	9	93	9	10.3
6	0	0	0	0	0	X	0	0	0	0	0	9	0.00
7	18	20	17	15	20	X	19	21	18	17	165	9	18.3
8													
TOTAL	32	37	33	30	37	3	34	35	32	30	303	10	30.3

Appendix (Data): Test 1002.0

Ceriodaphnia dubia Survival and Reproduction

Date and Time Test Initiated: November 6, 2023 at 1652

Date and Time Test Terminated: November 13, 2023 at 1728

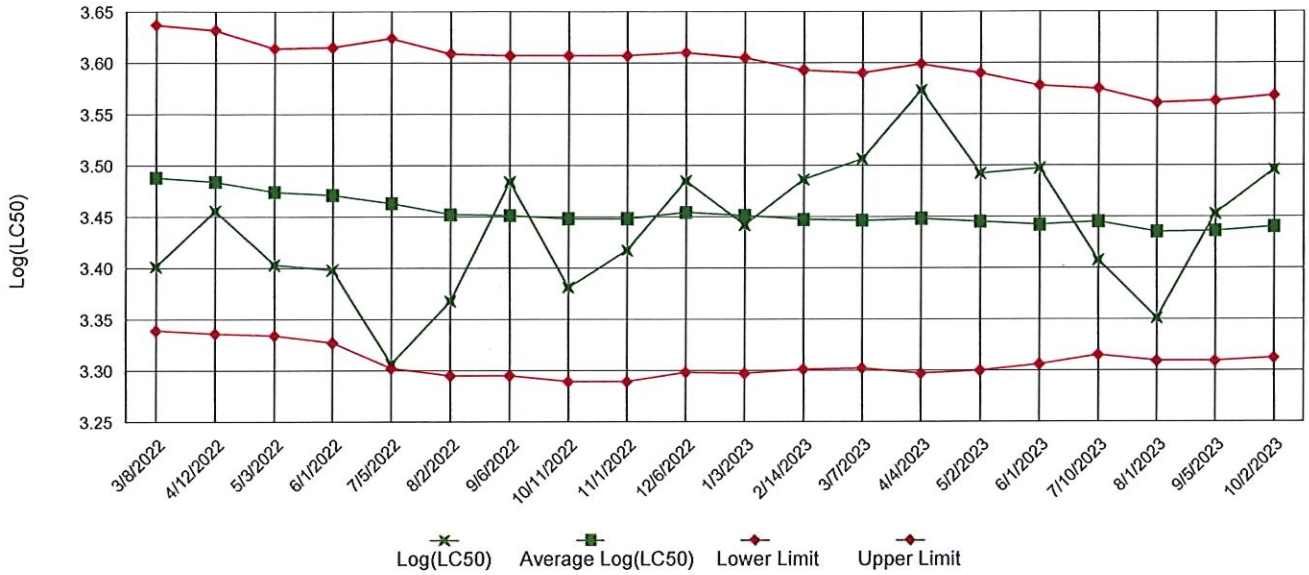
Concentration: 1.2 %														
Day	Replicate										No. of Young	No. of Adults	Young per Adult	
	1	2	3	4	5	6	7	8	9	10				
1	0	0	0	0	0	0	0	0	0	0	0	0	10	0.00
2	0	0	0	0	0	0	0	0	0	0	0	0	10	0.00
3	0	0	0	0	0	0	0	0	0	0	0	0	10	0.00
4	5	3	7	7	4	6	4	5	3	4	48	10	4.80	
5	11	8	9	12	10	9	9	12	10	9	99	10	9.90	
6	0	0	0	0	0	0	0	0	0	0	0	10	0.00	
7	20	17	19	19	18	17	18	22	18	18	186	10	18.6	
8														
TOTAL	36	28	35	38	32	32	31	39	31	31	333	10	33.3	

Concentration: 1.6 %														
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	10	0.00	
2	0	0	0	0	0	0	0	0	0	0	0	10	0.00	
3	0	0	0	0	0	0	0	0	0	0	0	10	0.00	
4	0X	4	7	6	6	3	6	4	6	6	48	9	5.33	
5	X	11	0	11	12	0	13	13	9	8	77	9	8.56	
6	X	0	13	0	0	10	0	0	0	0	23	9	2.56	
7	X	20	19	21	19	17	18	20	18	19	171	9	19.0	
8														
TOTAL	0	35	39	38	37	30	37	37	33	33	319	10	31.9	

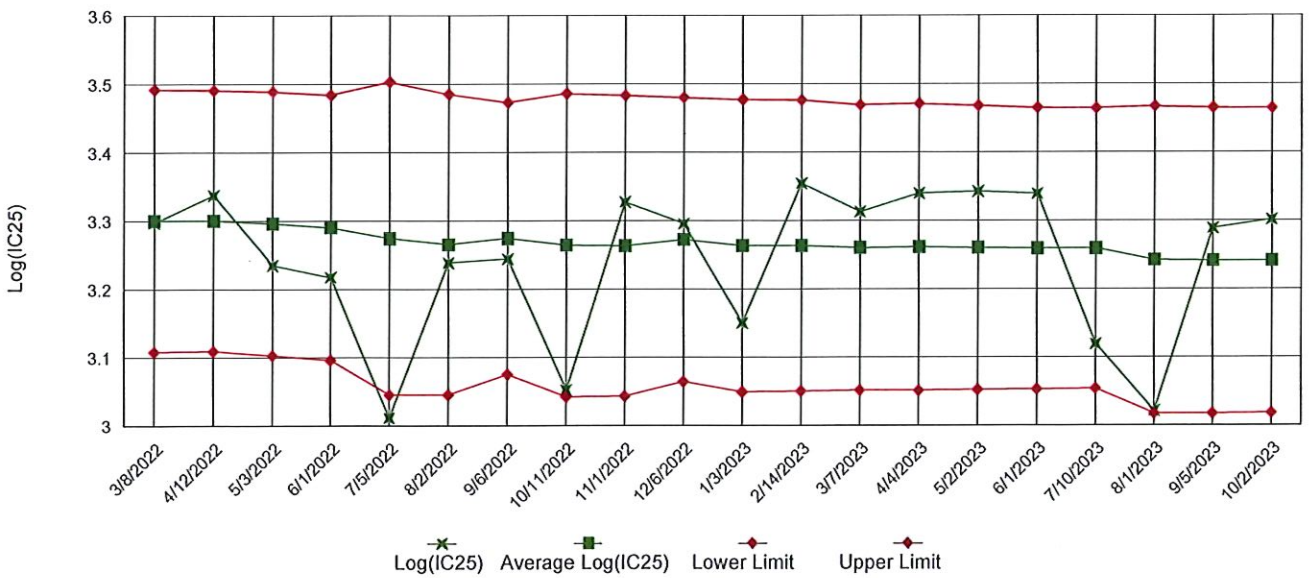
Concentration: 2.1 %														
Day	Replicate										No. of Young	No. of Adults	Young per Adult	
	1	2	3	4	5	6	7	8	9	10				
1	0	0	0	0	0	0	0	0	0	0	0	10	0.00	
2	0	0	0	0	0	0	0	0	0	0	0	10	0.00	
3	0	0	0	0	0	0	0	0	0	0	0	10	0.00	
4	5X	3	5	6	5	5	6	6	3	0X	44	8	5.50	
5	X	10	11	10	8	11	10	11	13	X	84	8	10.5	
6	X	0	0	0	0	0	0	0	0	X	0	8	0.00	
7	X	21	20	19	19	17	19	19	18	X	152	8	19.0	
8														
TOTAL	5	34	36	35	32	33	35	36	34	0	280	10	28.0	

Appendix (Reference Toxicant): Test 1000.0
Chronic Reference Toxicant, *Pimephales promelas* (Fathead Minnow)

LC50 Survival Data

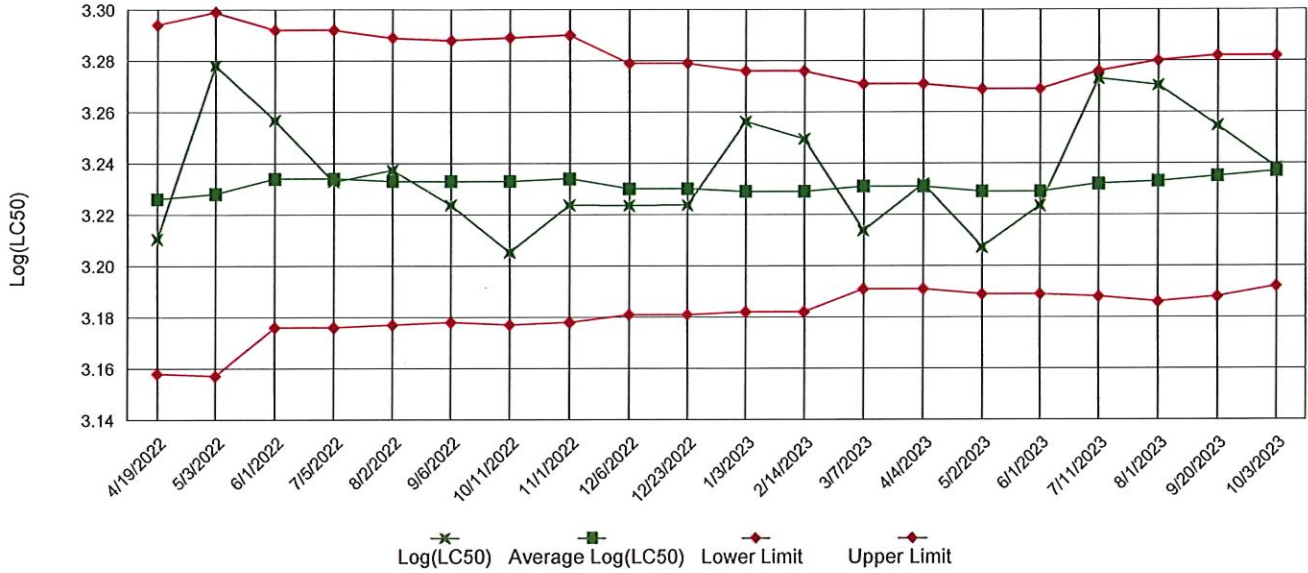


IC25 Growth Data

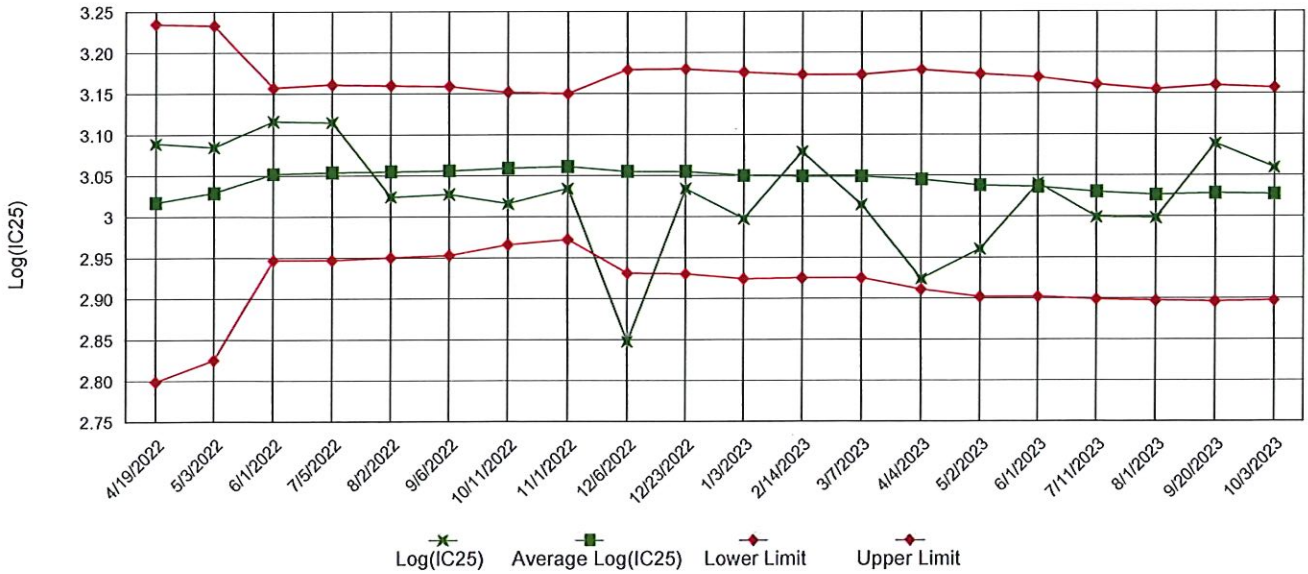


Appendix (Reference Toxicant): Test 1002.0
Chronic Reference Toxicant, *Ceriodaphnia dubia*

LC50 Survival Data



IC25 Reproduction Data



Appendix (Summary): Test 1000.0

SUMMARY REPORTING FORMS
CHRONIC BIOMONITORING
Pimephales promelas (Fathead Minnow)
SURVIVAL AND GROWTH

Permittee: El Dorado Chemical Company

NPDES No.: AR0000752

Date and Time Test Initiated: November 6, 2023 at 1704

Date and Time Test Terminated: November 13, 2023 at 1525

Dilution water used:

DATA TABLE FOR SURVIVAL

Effluent Conc. %	Percent Survival in replicate chambers					Mean percent survival			CV%
	A	B	C	D	E	24 hr	48 hr	7 days	
Control	100	87.5	100	100	87.5	100	97.5	95.0	7.21
0.7 %	100	87.5	100	87.5	100	97.5	97.5	95.0	7.21
0.9 %	100	87.5	100	75.0	87.5	100	100	90.0	11.6
1.2 %	100	100	100	100	100	100	100	100	0.00
1.6 %	87.5	100	100	100	100	100	100	97.5	5.73
2.1 %	100	87.5	100	100	100	100	100	97.5	5.73

DATA TABLE FOR GROWTH

Effluent Conc. %	Average dry weight, mg replicate chambers					Mean dry weight, mg	CV%
	A	B	C	D	E		
Control	0.614	0.522	0.615	0.471	0.384	0.521	18.9
0.7 %	0.544	0.435	0.504	0.579	0.509	0.514	10.4
0.9 %	0.548	0.470	0.564	0.394	0.405	0.476	16.5
1.2 %	0.520	0.520	0.464	0.540	0.549	0.519	6.37
1.6 %	0.484	0.471	0.474	0.485	0.571	0.497	8.41
2.1 %	0.528	0.434	0.504	0.555	0.575	0.519	10.5

CV = Coefficient of variation = standard deviation * 100 / mean

Appendix (Summary): Test 1000.0
 SUMMARY REPORTING FORMS
 CHRONIC BIOMONITORING
Pimephales promelas (Fathead Minnow)
 SURVIVAL AND GROWTH

1. Steel's Many-One Rank 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 | <u> </u> YES | <u> X </u> NO |
| b.) 1/2 LOW FLOW DILUTION | <u> </u> YES | <u> </u> NO |

2. Dunnett's Test:

Is the mean dry weight (growth) significantly different ($p=0.05$) than the control's dry weight (growth) for the % effluent corresponding to (significant non-lethal effects):

- | | | |
|-----------------------------------|-----------------------|----------------------|
| a.) LOW FLOW OR CRITICAL DILUTION | <u> </u> YES | <u> X </u> NO |
| b.) 1/2 LOW FLOW DILUTION | <u> </u> YES | <u> </u> NO |

3. If you answered NO to 1.a) enter [0] otherwise enter [1]: 0 (TLP6C)
4. If you answered NO to 2.a) enter [0] otherwise enter [1]: 0 (TGP6C)
5. NOEC *Pimephales* Lethality: 2.1 % (TOP6C)
6. LOEC *Pimephales* Lethality: 2.1 % (TXP6C)
7. NOEC *Pimephales* Sublethality: 2.1 % (TPP6C)
8. LOEC *Pimephales* Sublethality: 2.1 % (TYP6C)
9. Coefficient of variation for *Pimephales* growth: 18.9 (TQP6C)
10. Sublethality for this test: 2.1 % (51714 or 51714S)

Appendix (Summary): Test 1000.0

CHRONIC TOXICITY SUMMARY FORM
Pimephales promelas (Fathead minnow)
CHEMICAL PARAMETERS CHART

PERMITTEE: El Dorado Chemical Company
 NPDES NO.: AR0000752
 CONTACT: Ms. Tiffany Wooten
 ANALYST: GCX6, V6YL, B6YF, QGL9, WK7B

Test Initiated: DATE: November 6, 2023 TIME: 1704
 Test Terminated: DATE: November 13, 2023 TIME: 1525

DILUTION Control	DAY						
	1	2	3	4	5	6	7
D.O. Initial	7.7	7.9	7.8	8.3	8.0	8.0	8.1
Final	7.2	6.5	6.4	6.1	6.8	6.9	6.4
pH Initial	7.7	7.6	7.6	7.7	7.5	7.6	7.6
Final	7.6	7.2	7.3	7.1	7.4	7.3	7.3

DILUTION 0.7 %	DAY						
	1	2	3	4	5	6	7
D.O. Initial	7.6	7.9	7.9	8.2	8.2	8.2	8.2
Final	7.0	6.5	6.4	6.1	7.1	7.0	6.3
pH Initial	7.8	7.6	7.6	7.6	7.5	7.6	7.6
Final	7.5	7.3	7.4	7.2	7.4	7.3	7.3

DILUTION 0.9 %	DAY						
	1	2	3	4	5	6	7
D.O. Initial	7.7	8.0	8.0	8.3	8.1	8.5	8.3
Final	6.8	6.2	6.2	6.0	6.9	7.0	6.2
pH Initial	7.8	7.6	7.6	7.6	7.6	7.7	7.6
Final	7.4	7.2	7.3	7.2	7.4	7.3	7.3

DILUTION 1.2 %	DAY						
	1	2	3	4	5	6	7
D.O. Initial	7.7	8.0	7.9	8.2	8.0	8.6	8.0
Final	6.8	6.0	5.9	5.9	7.1	6.9	6.4
pH Initial	7.8	7.6	7.6	7.7	7.5	7.7	7.6
Final	7.4	7.2	7.3	7.2	7.4	7.3	7.4

DILUTION 1.6 %	DAY						
	1	2	3	4	5	6	7
D.O. Initial	7.8	7.8	8.0	8.3	8.2	8.3	8.1
Final	6.8	6.4	6.3	6.1	7.1	6.5	6.4
pH Initial	7.8	7.6	7.6	7.6	7.5	7.6	7.6
Final	7.4	7.3	7.3	7.2	7.4	7.3	7.3

DILUTION 2.1 %	DAY						
	1	2	3	4	5	6	7
D.O. Initial	7.8	7.8	7.9	8.2	8.2	8.4	8.2
Final	6.7	6.0	6.4	6.0	7.1	7.0	6.3
pH Initial	7.8	7.6	7.6	7.6	7.6	7.7	7.6
Final	7.4	7.3	7.3	7.2	7.4	7.4	7.4

Alkalinity	Hardness	Conductivity	Chlorine	Sample ID
9.8	54	1000	0.050	010 06-NOV-23
11	60	1100	<0.05	010 08-NOV-23
12	66	1100	<0.05	010 10-NOV-23

Alkalinity	Hardness	Conductivity	Chlorine	Sample ID
32	43	170	<0.05	192-6297-A-1
31	41	160	<0.05	192-6417-A-1
31	40	160	<0.05	192-6603-A-2

Appendix (Summary): Test 1002.0

SUMMARY REPORTING FORMS
CHRONIC BIOMONITORING
Ceriodaphnia dubia
SURVIVAL AND REPRODUCTION

Permittee: El Dorado Chemical Company

NPDES No.: AR0000752

Date and Time Test Initiated: November 6, 2023 at 1652

Date and Time Test Terminated: November 13, 2023 at 1728

Dilution water used:

PERCENT SURVIVAL

Time of Reading	Control	Percent Effluent				
		0.7 %	0.9 %	1.2 %	1.6 %	2.1 %
24 hour	100	100	100	100	100	100
48 hour	100	100	100	100	100	100
7 day	100	100	90.0	100	90.0	80.0

NUMBER OF YOUNG PRODUCED PER FEMALE @ 7 DAYS

Replicates	Control	Percent Effluent				
		0.7 %	0.9 %	1.2 %	1.6 %	2.1 %
A	32	31	32	36	0	5
B	32	34	37	28	35	34
C	32	35	33	35	39	36
D	37	30	30	38	38	35
E	38	37	37	32	37	32
F	25	35	3	32	30	33
G	38	32	34	31	37	35
H	34	33	35	39	37	36
I	29	36	32	31	33	34
J	32	32	30	31	33	0
Mean per Adult	32.9	33.5	30.3	33.3	31.9	28.0
Mean per Surviving Adult	32.9	33.5	33.3	33.3	35.4	34.4
CV %	12.4	6.79	7.94	10.6	8.24	4.10

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

Appendix (Summary): 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	_____	YES	_____	X	NO
b.) 1/2 LOW FLOW DILUTION	_____	YES	_____	_____	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	_____	YES	_____	X	NO
b.) 1/2 LOW FLOW DILUTION	_____	YES	_____	_____	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: 2.1 % (TOP3B)
- 6. LOEC Ceriodaphnia Lethality: 2.1 % (TXP3B)
- 7. NOEC Ceriodaphnia Sublethality: 2.1 % (TPP3B)
- 8. LOEC Ceriodaphnia Sublethality: 2.1 % (TYP3B)
- 9. Coefficient of variation for Ceriodaphnia Reproduction: 12.4 (TQP3B)
- 10. Sublethality for this test: 2.1 % (51710 or 51710Q)

Appendix (Summary): Test 1002.0
 CHRONIC TOXICITY SUMMARY FORM
Ceriodaphnia dubia
 CHEMICAL PARAMETERS CHART

PERMITTEE: El Dorado Chemical Company
 NPDES NO.: AR0000752
 CONTACT: Ms. Tiffany Wooten
 ANALYST: GCX6, V6YL, B6YF, QGL9, WK7B

Test Initiated: DATE: November 6, 2023 TIME: 1652
 Test Terminated: DATE: November 13, 2023 TIME: 1728

DILUTION	DAY						
	1	2	3	4	5	6	7
Control							
D.O. Initial	7.7	7.9	7.8	8.3	8.0	8.0	8.1
Final	7.8	7.7	7.5	7.8	7.6	7.9	7.0
pH Initial	7.7	7.6	7.6	7.7	7.5	7.6	7.6
Final	7.7	7.7	7.7	7.8	7.8	7.9	7.7

DILUTION	DAY						
	1	2	3	4	5	6	7
0.7 %							
D.O. Initial	7.6	7.9	7.9	8.2	8.2	8.2	8.2
Final	7.8	7.6	7.7	7.8	8.0	8.0	7.6
pH Initial	7.8	7.6	7.6	7.6	7.5	7.6	7.6
Final	7.7	7.6	7.7	7.8	7.8	7.9	7.7

DILUTION	DAY						
	1	2	3	4	5	6	7
0.9 %							
D.O. Initial	7.7	8.0	8.0	8.3	8.1	8.5	8.3
Final	7.8	7.7	7.6	7.5	7.7	7.9	7.7
pH Initial	7.8	7.6	7.6	7.6	7.6	7.7	7.6
Final	7.7	7.7	7.8	7.8	7.8	7.9	7.7

DILUTION	DAY						
	1	2	3	4	5	6	7
1.2 %							
D.O. Initial	7.7	8.0	7.9	8.2	8.0	8.6	8.0
Final	7.7	7.5	7.5	7.5	7.9	7.8	6.9
pH Initial	7.8	7.6	7.6	7.7	7.5	7.7	7.6
Final	7.7	7.7	7.8	7.8	7.8	7.8	7.7

DILUTION	DAY						
	1	2	3	4	5	6	7
1.6 %							
D.O. Initial	7.8	7.8	8.0	8.3	8.2	8.3	8.1
Final	7.8	7.7	7.8	7.7	8.0	7.6	6.8
pH Initial	7.8	7.6	7.6	7.6	7.5	7.6	7.6
Final	7.7	7.6	7.7	7.8	7.8	7.8	7.7

DILUTION	DAY						
	1	2	3	4	5	6	7
2.1 %							
D.O. Initial	7.8	7.8	7.9	8.2	8.2	8.4	8.2
Final	7.6	7.6	7.6	7.9	7.8	7.7	7.3
pH Initial	7.8	7.6	7.6	7.6	7.6	7.7	7.6
Final	7.7	7.6	7.8	7.8	7.8	7.9	7.8

Alkalinity	Hardness	Conductivity	Chlorine	Sample ID
9.8	54	1000	0.050	010 06-NOV-23
11	60	1100	<0.05	010 08-NOV-23
12	66	1100	<0.05	010 10-NOV-23

Alkalinity	Hardness	Conductivity	Chlorine	Sample ID
32	43	170	<0.05	192-6297-A-1
31	41	160	<0.05	192-6417-A-1
31	40	160	<0.05	192-6603-A-2

CETIS Summary Report

Report Date: 19 Nov-23 09:04 (p 1 of 1)
 Test Code/ID: 274735_FH / 05-6495-9250



Fathead Minnow 7-d Larval Survival and Growth Test

Eurofins Arkansas

Multiple Comparison Summary

Analysis ID	Endpoint	Comparison Method	NOEL	LOEL	TOEL	PMSD	TU
00-5385-8696	7d Survival Rate	Steel Many-One Rank Sum Test	2.1	>2.1	---	9.7%	47.6
01-6804-6486	Mean Dry Biomass-mg	Dunnett Multiple Comparison Test	2.1	>2.1	---	18.3%	47.6

Point Estimate Summary

Analysis ID	Endpoint	Point Estimate Method	Level	%	95% LCL	95% UCL	TU
04-3157-5288	Mean Dry Biomass-mg	Linear Interpolation (ICPIN)	IC25	>2.1	---	---	<47.6

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits			Overlap	Decision
				Lower	Upper			
00-5385-8696	7d Survival Rate	Control Resp	0.975	0.8	>>	Yes	Passes Criteria	
01-6804-6486	Mean Dry Biomass-mg	Control Resp	0.5213	0.25	>>	Yes	Passes Criteria	
04-3157-5288	Mean Dry Biomass-mg	Control Resp	0.5213	0.25	>>	Yes	Passes Criteria	
01-6804-6486	Mean Dry Biomass-mg	PMSD	0.1834	0.12	0.3	Yes	Passes Criteria	

7d Survival Rate Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	D	5	0.9750	0.9056	1.0440	0.8750	1.0000	0.0250	0.0559	5.73%	0.00%
0.7		5	0.9500	0.8650	1.0350	0.8750	1.0000	0.0306	0.0685	7.21%	2.56%
0.9		5	0.9000	0.7701	1.0300	0.7500	1.0000	0.0468	0.1046	11.62%	7.69%
1.2		5	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	-2.56%
1.6		5	0.9750	0.9056	1.0440	0.8750	1.0000	0.0250	0.0559	5.73%	0.00%
2.1		5	0.9750	0.9056	1.0440	0.8750	1.0000	0.0250	0.0559	5.73%	0.00%

Mean Dry Biomass-mg Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	D	5	0.5213	0.399	0.6435	0.3838	0.615	0.04402	0.09843	18.88%	0.00%
0.7		5	0.514	0.4476	0.5804	0.435	0.5788	0.02393	0.05351	10.41%	1.39%
0.9		5	0.476	0.3785	0.5735	0.3938	0.5638	0.03511	0.07851	16.49%	8.68%
1.2		5	0.5185	0.4774	0.5596	0.4638	0.5488	0.0148	0.03309	6.38%	0.53%
1.6		5	0.497	0.4449	0.5491	0.4713	0.5713	0.01876	0.04194	8.44%	4.65%
2.1		5	0.519	0.451	0.587	0.4338	0.575	0.0245	0.05478	10.55%	0.43%

7d Survival Rate Detail

MD5: 6FF5280E8457BBFE72DB56B896040C7C

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	D	1.0000	0.8750	1.0000	1.0000	1.0000
0.7		1.0000	0.8750	1.0000	0.8750	1.0000
0.9		1.0000	0.8750	1.0000	0.7500	0.8750
1.2		1.0000	1.0000	1.0000	1.0000	1.0000
1.6		0.8750	1.0000	1.0000	1.0000	1.0000
2.1		1.0000	0.8750	1.0000	1.0000	1.0000

Mean Dry Biomass-mg Detail

MD5: 1D1769EE11F3AF0858D2621935F0C219

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	D	0.6138	0.5225	0.615	0.4713	0.3838
0.7		0.5438	0.435	0.5037	0.5788	0.5088
0.9		0.5475	0.47	0.5638	0.3938	0.405
1.2		0.52	0.52	0.4638	0.54	0.5488
1.6		0.4837	0.4713	0.4737	0.485	0.5713
2.1		0.5275	0.4338	0.5038	0.555	0.575

CETIS Analytical Report

Report Date: 19 Nov-23 09:04 (p 1 of 4)
 Test Code/ID: 274735_FH / 05-6495-9250

Fathead Minnow 7-d Larval Survival and Growth Test

Eurofins Arkansas

Analysis ID: 00-5385-8696 Endpoint: 7d Survival Rate CETIS Version: CETIS v2.1.5
 Analyzed: 19 Nov-23 9:01 Analysis: Nonparametric-Control vs Treatments Status Level: 1
 Edit Date: 19 Nov-23 0:00 MD5 Hash: 6FF5280E8457BBFE72DB56B896040C7C Editor ID: 004-572-886-9

Data Transform	Alt Hyp	NOEL	LOEL	TOEL	Tox Units	MSDu	PMSD
Angular (Corrected)	C > T	2.1	>2.1	---	47.6	0.09458	9.70%

Steel Many-One Rank Sum Test

Control	vs	Conc-%	df	Test Stat	Critical	Ties	P-Type	P-Value	Decision(α:5%)
Dilution Water		0.7	8	25	16	2	CDF	0.6353	Non-Significant Effect
		0.9	8	22	16	2	CDF	0.3476	Non-Significant Effect
		1.2	8	30	16	1	CDF	0.9446	Non-Significant Effect
		1.6	8	27.5	16	2	CDF	0.8333	Non-Significant Effect
		2.1	8	27.5	16	2	CDF	0.8333	Non-Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits		Overlap	Decision
		Lower	Upper		
Control Resp	0.975	0.8	>>	Yes	Passes Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.0602282	0.0120456	5	1.398	0.2605	Non-Significant Effect
Error	0.206794	0.0086164	24			
Total	0.267022		29			

ANOVA Assumptions Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variance	Bartlett Equality of Variance Test				Indeterminate
Distribution	Shapiro-Wilk W Normality Test	0.8796	0.9031	0.0028	Non-Normal Distribution

7d Survival Rate Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	D	5	0.9750	0.9056	1.0000	1.0000	0.8750	1.0000	0.0250	5.73%	0.00%
0.7		5	0.9500	0.8650	1.0000	1.0000	0.8750	1.0000	0.0306	7.21%	2.56%
0.9		5	0.9000	0.7701	1.0000	0.8750	0.7500	1.0000	0.0468	11.62%	7.69%
1.2		5	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	-2.56%
1.6		5	0.9750	0.9056	1.0000	1.0000	0.8750	1.0000	0.0250	5.73%	0.00%
2.1		5	0.9750	0.9056	1.0000	1.0000	0.8750	1.0000	0.0250	5.73%	0.00%

Angular (Corrected) Transformed Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	D	5	1.3560	1.2540	1.4580	1.3930	1.2090	1.3930	0.0367	6.06%	0.00%
0.7		5	1.3200	1.1950	1.4450	1.3930	1.2090	1.3930	0.0450	7.62%	2.71%
0.9		5	1.2500	1.0690	1.4320	1.2090	1.0470	1.3930	0.0653	11.68%	7.81%
1.2		5	1.3930	1.3930	1.3930	1.3930	1.3930	1.3930	0.0000	0.00%	-2.71%
1.6		5	1.3560	1.2540	1.4580	1.3930	1.2090	1.3930	0.0367	6.06%	0.00%
2.1		5	1.3560	1.2540	1.4580	1.3930	1.2090	1.3930	0.0367	6.06%	0.00%

7d Survival Rate Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	D	1.0000	0.8750	1.0000	1.0000	1.0000
0.7		1.0000	0.8750	1.0000	0.8750	1.0000
0.9		1.0000	0.8750	1.0000	0.7500	0.8750
1.2		1.0000	1.0000	1.0000	1.0000	1.0000
1.6		0.8750	1.0000	1.0000	1.0000	1.0000
2.1		1.0000	0.8750	1.0000	1.0000	1.0000

Fathead Minnow 7-d Larval Survival and Growth Test

Eurofins Arkansas

Analysis ID: 00-5385-8696 Endpoint: 7d Survival Rate CETIS Version: CETIS v2.1.5
 Analyzed: 19 Nov-23 9:01 Analysis: Nonparametric-Control vs Treatments Status Level: 1
 Edit Date: 19 Nov-23 0:00 MD5 Hash: 6FF5280E8457BBFE72DB56B896040C7C Editor ID: 004-572-886-9

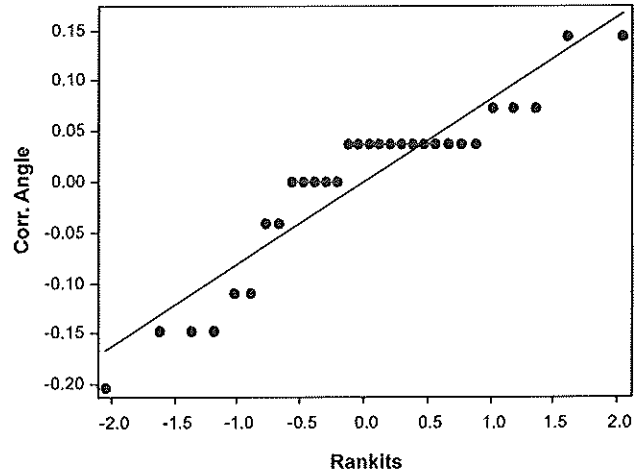
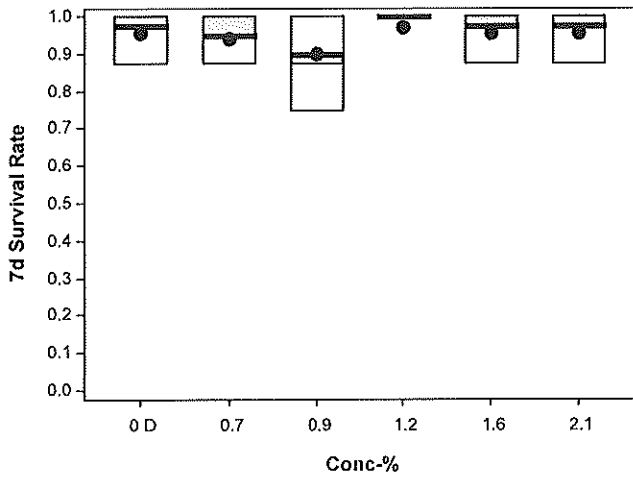
Angular (Corrected) Transformed Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	D	1.3930	1.2090	1.3930	1.3930	1.3930
0.7		1.3930	1.2090	1.3930	1.2090	1.3930
0.9		1.3930	1.2090	1.3930	1.0470	1.2090
1.2		1.3930	1.3930	1.3930	1.3930	1.3930
1.6		1.2090	1.3930	1.3930	1.3930	1.3930
2.1		1.3930	1.2090	1.3930	1.3930	1.3930

7d Survival Rate Binomials

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	D	8/8	7/8	8/8	8/8	8/8
0.7		8/8	7/8	8/8	7/8	8/8
0.9		8/8	7/8	8/8	6/8	7/8
1.2		8/8	8/8	8/8	8/8	8/8
1.6		7/8	8/8	8/8	8/8	8/8
2.1		8/8	7/8	8/8	8/8	8/8

Graphics



CETIS Analytical Report

Report Date: 19 Nov-23 09:04 (p 3 of 4)
 Test Code/ID: 274735_FH / 05-6495-9250



Fathead Minnow 7-d Larval Survival and Growth Test

Eurofins Arkansas

Analysis ID: 01-6804-6486 Endpoint: Mean Dry Biomass-mg CETIS Version: CETIS v2.1.5
 Analyzed: 19 Nov-23 9:03 Analysis: Parametric-Control vs Treatments Status Level: 1
 Edit Date: 19 Nov-23 0:00 MD5 Hash: 1D1769EE11F3AF0858D2621935F0C219 Editor ID: 004-572-886-9

Data Transform	Alt Hyp	NOEL	LOEL	TOEL	Tox Units	MSD _u	PMSD
Untransformed	C > T	2.1	>2.1	---	47.6	0.09558	18.34%

Dunnett Multiple Comparison Test

Control	vs	Conc-%	df	Test Stat	Critical	MSD	P-Type	P-Value	Decision(α:5%)
Dilution Water		0.7	8	0.1792	2.362	0.09558	CDF	0.7750	Non-Significant Effect
		0.9	8	1.118	2.362	0.09558	CDF	0.3684	Non-Significant Effect
		1.2	8	0.06801	2.362	0.09558	CDF	0.8124	Non-Significant Effect
		1.6	8	0.5992	2.362	0.09558	CDF	0.6029	Non-Significant Effect
		2.1	8	0.05561	2.362	0.09558	CDF	0.8164	Non-Significant Effect

Test Acceptability Criteria

TAC Limits

Attribute	Test Stat	Lower	Upper	Overlap	Decision
Control Resp	0.5213	0.25	>>	Yes	Passes Criteria
PMSD	0.1834	0.12	0.3	Yes	Passes Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.0079355	0.0015871	5	0.3876	0.8524	Non-Significant Effect
Error	0.0982787	0.0040949	24			
Total	0.106214		29			

ANOVA Assumptions Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variance	Bartlett Equality of Variance Test	5.697	15.09	0.3368	Equal Variances
Distribution	Shapiro-Wilk W Normality Test	0.9684	0.9031	0.4951	Normal Distribution

Mean Dry Biomass-mg Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	D	5	0.5213	0.399	0.6435	0.5225	0.3838	0.615	0.04402	18.88%	0.00%
0.7		5	0.514	0.4476	0.5804	0.5088	0.435	0.5788	0.02393	10.41%	1.39%
0.9		5	0.476	0.3785	0.5735	0.47	0.3938	0.5638	0.03511	16.49%	8.68%
1.2		5	0.5185	0.4774	0.5596	0.52	0.4638	0.5488	0.0148	6.38%	0.53%
1.6		5	0.497	0.4449	0.5491	0.4837	0.4713	0.5713	0.01876	8.44%	4.65%
2.1		5	0.519	0.451	0.587	0.5275	0.4338	0.575	0.0245	10.55%	0.43%

Mean Dry Biomass-mg Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	D	0.6138	0.5225	0.615	0.4713	0.3838
0.7		0.5438	0.435	0.5037	0.5788	0.5088
0.9		0.5475	0.47	0.5638	0.3938	0.405
1.2		0.52	0.4638	0.54	0.5488	
1.6		0.4837	0.4713	0.4737	0.485	0.5713
2.1		0.5275	0.4338	0.5038	0.555	0.575

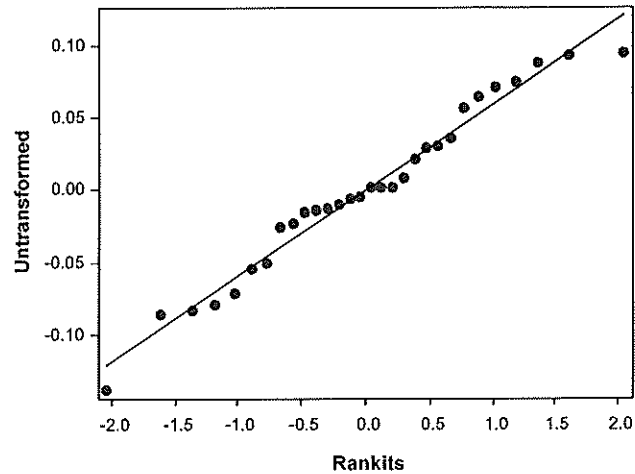
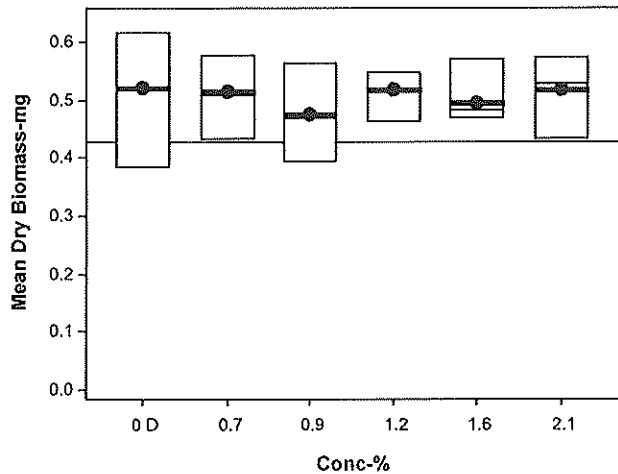


Fathead Minnow 7-d Larval Survival and Growth Test

Eurofins Arkansas

Analysis ID: 01-6804-6486 Endpoint: Mean Dry Biomass-mg CETIS Version: CETIS v2.1.5
Analyzed: 19 Nov-23 9:03 Analysis: Parametric-Control vs Treatments Status Level: 1
Edit Date: 19 Nov-23 0:00 MD5 Hash: 1D1769EE11F3AF0858D2621935F0C219 Editor ID: 004-572-886-9

Graphics



CETIS Analytical Report

Report Date: 19 Nov-23 09:04 (p 1 of 1)
 Test Code/ID: 274735_FH / 05-6495-9250

2

Fathead Minnow 7-d Larval Survival and Growth Test Eurofins Arkansas

Analysis ID: 04-3157-5288	Endpoint: Mean Dry Biomass-mg	CETIS Version: CETIS v2.1.5
Analyzed: 19 Nov-23 9:03	Analysis: Linear Interpolation (ICPIN)	Status Level: 1
Edit Date: 19 Nov-23 0:00	MD5 Hash: 1D1769EE11F3AF0858D2621935F0C219	Editor ID: 004-572-886-9

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	1727121	1000	Yes	Two-Point Interpolation

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits		Overlap	Decision
		Lower	Upper		
Control Resp	0.5213	0.25	>>	Yes	Passes Criteria

Point Estimates

Level	%	95% LCL	95% UCL	Tox Units	95% LCL	95% UCL
IC25	>2.1	---	---	<47.6	---	---

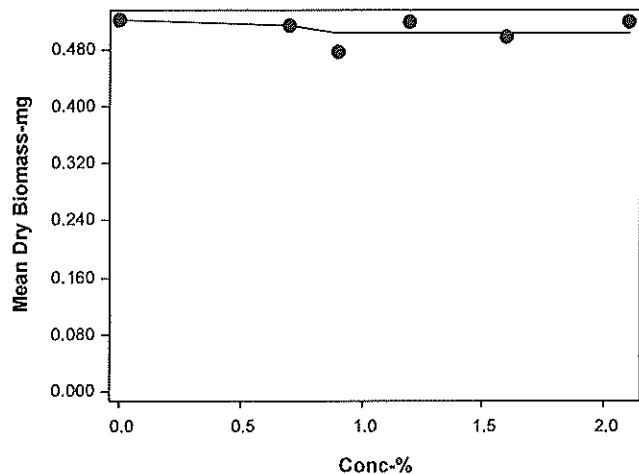
Mean Dry Biomass-mg Summary

Conc-%	Code	Count	Calculated Variate						Isotonic Variate	
			Mean	Median	Min	Max	CV%	%Effect	Mean	%Effect
0	D	5	0.5213	0.5225	0.3838	0.615	18.88%	0.00%	0.5213	0.00%
0.7		5	0.514	0.5088	0.435	0.5788	10.41%	1.39%	0.514	1.39%
0.9		5	0.476	0.47	0.3938	0.5638	16.49%	8.68%	0.5026	3.57%
1.2		5	0.5185	0.52	0.4638	0.5488	6.36%	0.53%	0.5026	3.57%
1.6		5	0.497	0.4837	0.4713	0.5713	8.44%	4.65%	0.5026	3.57%
2.1		5	0.519	0.5275	0.4338	0.575	10.55%	0.43%	0.5026	3.57%

Mean Dry Biomass-mg Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	D	0.6138	0.5225	0.615	0.4713	0.3838
0.7		0.5438	0.435	0.5037	0.5788	0.5088
0.9		0.5475	0.47	0.5638	0.3938	0.405
1.2		0.52	0.52	0.4638	0.54	0.5488
1.6		0.4837	0.4713	0.4737	0.485	0.5713
2.1		0.5275	0.4338	0.5038	0.555	0.575

Graphics



CETIS Summary Report

Report Date: 21 Nov-23 14:42 (p 1 of 1)
 Test Code/ID: 274735_CD / 16-5580-0084



Ceriodaphnia 7-d Survival and Reproduction Test

Eurofins Arkansas

Multiple Comparison Summary

Analysis ID	Endpoint	Comparison Method	NOEL	LOEL	TOEL	PMSD	TU
09-8806-2240	7d Survival Rate	Fisher Exact/Bonferroni-Holm Test	2.1	>2.1	---	---	47.6
18-4929-9505	Reproduction	Steel Many-One Rank Sum Test	2.1	>2.1	---	26.9%	47.6

Point Estimate Summary

Analysis ID	Endpoint	Point Estimate Method	Level	%	95% LCL	95% UCL	TU
06-2066-4878	Reproduction	Linear Interpolation (ICPIN)	IC25	>2.1	---	---	<47.6

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits		Overlap	Decision
				Lower	Upper		
09-8806-2240	7d Survival Rate	Control Resp	1	0.8	>>	Yes	Passes Criteria
06-2066-4878	Reproduction	Control Resp	32.9	15	>>	Yes	Passes Criteria
18-4929-9505	Reproduction	Control Resp	32.9	15	>>	Yes	Passes Criteria
18-4929-9505	Reproduction	PMSD	0.2693	0.13	0.47	Yes	Passes Criteria

7d Survival Rate Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	D	10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
0.7		10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
0.9		10	0.9000	0.6738	1.1260	0.0000	1.0000	0.1000	0.3162	35.14%	10.00%
1.2		10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
1.6		10	0.9000	0.6738	1.1260	0.0000	1.0000	0.1000	0.3162	35.14%	10.00%
2.1		10	0.8000	0.4984	1.1020	0.0000	1.0000	0.1333	0.4216	52.70%	20.00%

Reproduction Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	D	10	32.9	29.97	35.83	25	38	1.295	4.095	12.45%	0.00%
0.7		10	33.5	31.87	35.13	30	37	0.7188	2.273	6.79%	-1.82%
0.9		10	30.3	23.21	37.39	3	37	3.134	9.911	32.71%	7.90%
1.2		10	33.3	30.76	35.82	28	39	1.116	3.529	10.60%	-1.22%
1.6		10	31.9	23.64	40.16	0	39	3.65	11.54	36.18%	3.04%
2.1		10	28	18.31	37.69	0	36	4.284	13.55	48.39%	14.89%

7d Survival Rate Detail

MD5: E1815F86C1725D0C60133EA4BAC41273

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	D	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
0.7		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
0.9		1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	1.0000	1.0000	1.0000	1.0000
1.2		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
1.6		0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
2.1		0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000

Reproduction Detail

MD5: 0F61961221634767AC9CF997F83F31B9

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	D	32	32	32	37	38	25	38	34	29	32
0.7		31	34	35	30	37	35	32	33	36	32
0.9		32	37	33	30	37	3	34	35	32	30
1.2		36	28	35	38	32	32	31	39	31	31
1.6		0	35	39	38	37	30	37	37	33	33
2.1		5	34	36	35	32	33	35	36	34	0

CETIS Analytical Report

Report Date: 21 Nov-23 14:41 (p 1 of 2)
 Test Code/ID: 274735_CD / 16-5580-0084



Ceriodaphnia 7-d Survival and Reproduction Test

Eurofins Arkansas

Analysis ID: 09-8806-2240 Endpoint: 7d Survival Rate CETIS Version: CETIS v2.1.5
 Analyzed: 21 Nov-23 14:34 Analysis: STP 2xK Contingency Tables Status Level: 1
 Edit Date: 21 Nov-23 0:00 MD5 Hash: E1815F86C1725D0C60133EA4BAC41273 Editor ID: 004-572-886-9

Data Transform	Alt Hyp	NOEL	LOEL	TOEL	Tox Units
Untransformed	C > T	2.1	>2.1	---	47.6

Fisher Exact/Bonferroni-Holm Test

Control	vs	Conc-%	Test Stat	P-Type	P-Value	Decision(α:5%)
Dilution Water		0.7	1.0000	Exact	1.0000	Non-Significant Effect
		0.9	0.5000	Exact	1.0000	Non-Significant Effect
		1.2	1.0000	Exact	1.0000	Non-Significant Effect
		1.6	0.5000	Exact	1.0000	Non-Significant Effect
		2.1	0.2368	Exact	1.0000	Non-Significant Effect

Test Acceptability Criteria

TAC Limits

Attribute	Test Stat	Lower	Upper	Overlap	Decision
Control Resp	1	0.8	>>	Yes	Passes Criteria

7d Survival Rate Frequencies

Conc-%	Code	NR	R	NR + R	Prop NR	Prop R	%Effect
0	D	10	0	10	1.0000	0.0000	0.00%
0.7		10	0	10	1.0000	0.0000	0.00%
0.9		9	1	10	0.9000	0.1000	10.00%
1.2		10	0	10	1.0000	0.0000	0.00%
1.6		9	1	10	0.9000	0.1000	10.00%
2.1		8	2	10	0.8000	0.2000	20.00%

7d Survival Rate Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	D	10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
0.7		10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
0.9		10	0.9000	0.6738	1.0000	1.0000	0.0000	1.0000	0.1000	35.14%	10.00%
1.2		10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
1.6		10	0.9000	0.6738	1.0000	1.0000	0.0000	1.0000	0.1000	35.14%	10.00%
2.1		10	0.8000	0.4984	1.0000	1.0000	0.0000	1.0000	0.1333	52.70%	20.00%

7d Survival Rate Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	D	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
0.7		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
0.9		1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	1.0000	1.0000	1.0000	1.0000
1.2		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
1.6		0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
2.1		0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000

7d Survival Rate Binomials

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	D	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
0.7		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
0.9		1/1	1/1	1/1	1/1	1/1	0/1	1/1	1/1	1/1	1/1
1.2		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
1.6		0/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
2.1		0/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	0/1

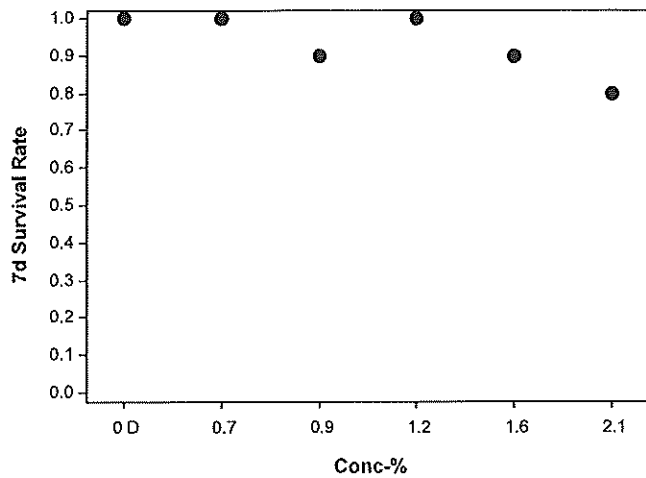


Ceriodaphnia 7-d Survival and Reproduction Test

Eurofins Arkansas

Analysis ID: 09-8806-2240	Endpoint: 7d Survival Rate	CETIS Version: CETIS v2.1.5
Analyzed: 21 Nov-23 14:34	Analysis: STP 2xK Contingency Tables	Status Level: 1
Edit Date: 21 Nov-23 0:00	MD5 Hash: E1815F86C1725D0C60133EA4BAC41273	Editor ID: 004-572-886-9

Graphics



CETIS Analytical Report

Report Date: 21 Nov-23 14:40 (p 1 of 2)
 Test Code/ID: 274735_CD / 16-5580-0084



Ceriodaphnia 7-d Survival and Reproduction Test

Eurofins Arkansas

Analysis ID: 18-4929-9505 Endpoint: Reproduction CETIS Version: CETIS v2.1.5
 Analyzed: 21 Nov-23 14:34 Analysis: Nonparametric-Control vs Treatments Status Level: 1
 Edit Date: 21 Nov-23 0:00 MD5 Hash: 0F61961221634767AC9CF997F83F31B9 Editor ID: 004-572-886-9

Data Transform	Alt Hyp	NOEL	LOEL	TOEL	Tox Units	MSDu	PMSD
Untransformed	C > T	2.1	>2.1	---	47.6	8.86	26.93%

Steel Many-One Rank Sum Test

Control	vs	Conc-%	df	Test Stat	Critical	Ties	P-Type	P-Value	Decision(α:5%)
Dilution Water		0.7	18	108	75	3	CDF	0.8923	Non-Significant Effect
		0.9	18	101.5	75	3	CDF	0.7427	Non-Significant Effect
		1.2	18	103	75	3	CDF	0.7843	Non-Significant Effect
		1.6	18	117.5	75	3	CDF	0.9824	Non-Significant Effect
		2.1	18	106	75	2	CDF	0.8549	Non-Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits		Overlap	Decision
		Lower	Upper		
Control Resp	32.9	15	>>	Yes	Passes Criteria
PMSD	0.2693	0.13	0.47	Yes	Passes Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	229.15	45.83	5	0.6119	0.6911	Non-Significant Effect
Error	4044.5	74.8982	54			
Total	4273.65		59			

ANOVA Assumptions Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variance	Bartlett Equality of Variance Test	36.42	15.09	<1.0E-05	Unequal Variances
Distribution	Shapiro-Wilk W Normality Test	0.6891	0.9459	<1.0E-05	Non-Normal Distribution

Reproduction Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	D	10	32.9	29.97	35.83	32	25	38	1.295	12.45%	0.00%
0.7		10	33.5	31.87	35.13	33.5	30	37	0.7188	6.79%	-1.82%
0.9		10	30.3	23.21	37.39	32.5	3	37	3.134	32.71%	7.90%
1.2		10	33.3	30.78	35.82	32	28	39	1.116	10.60%	-1.22%
1.6		10	31.9	23.64	40.16	36	0	39	3.65	36.18%	3.04%
2.1		10	28	18.31	37.69	34	0	36	4.284	48.39%	14.89%

Reproduction Detail

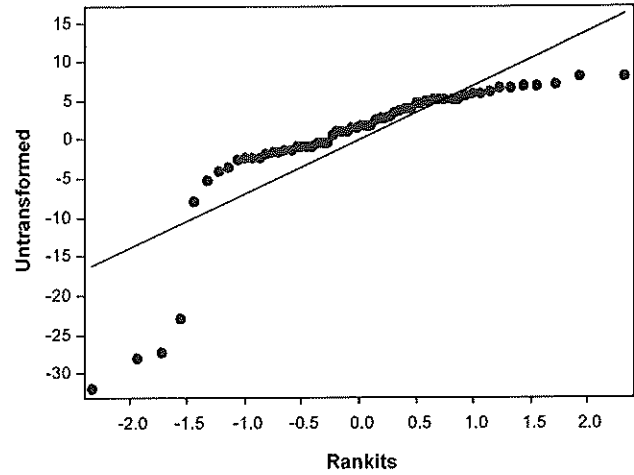
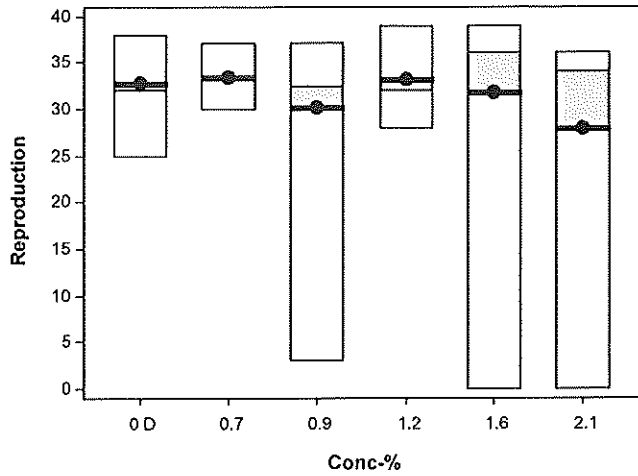
Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	D	32	32	32	37	38	25	38	34	29	32
0.7		31	34	35	30	37	35	32	33	36	32
0.9		32	37	33	30	37	3	34	35	32	30
1.2		36	28	35	38	32	32	31	39	31	31
1.6		0	35	39	38	37	30	37	37	33	33
2.1		5	34	36	35	32	33	35	36	34	0

Ceriodaphnia 7-d Survival and Reproduction Test

Eurofins Arkansas

Analysis ID: 18-4929-9505 Endpoint: Reproduction CETIS Version: CETIS v2.1.5
 Analyzed: 21 Nov-23 14:34 Analysis: Nonparametric-Control vs Treatments Status Level: 1
 Edit Date: 21 Nov-23 0:00 MD5 Hash: 0F61961221634767AC9CF997F83F31B9 Editor ID: 004-572-886-9

Graphics



CETIS Analytical Report

Report Date: 21 Nov-23 14:41 (p 1 of 1)
 Test Code/ID: 274735_CD / 16-5580-0084



Ceriodaphnia 7-d Survival and Reproduction Test

Eurofins Arkansas

Analysis ID: 06-2066-4878 Endpoint: Reproduction CETIS Version: CETIS v2.1.5
 Analyzed: 21 Nov-23 14:38 Analysis: Linear Interpolation (ICPIN) Status Level: 1
 Edit Date: 21 Nov-23 0:00 MD5 Hash: 0F61961221634767AC9CF997F83F31B9 Editor ID: 004-572-886-9

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	1047726	1000	Yes	Two-Point Interpolation

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits		Overlap	Decision
		Lower	Upper		
Control Resp	32.9	15	>>	Yes	Passes Criteria

Point Estimates

Level	%	95% LCL	95% UCL	Tox Units	95% LCL	95% UCL
IC25	>2.1	---	---	<47.6	---	---

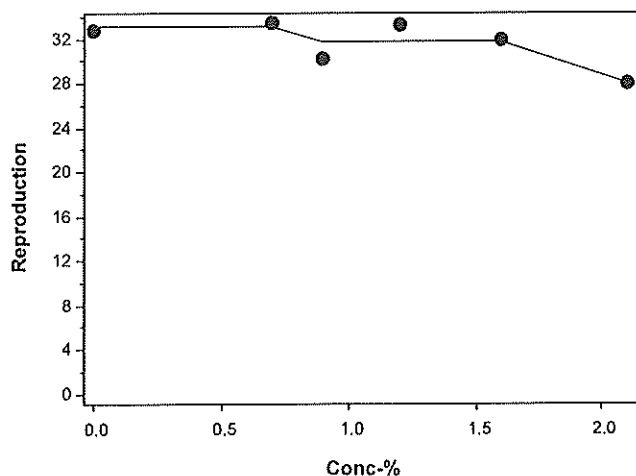
Reproduction Summary

Conc-%	Code	Count	Calculated Variate						Isotonic Variate	
			Mean	Median	Min	Max	CV%	%Effect	Mean	%Effect
0	D	10	32.9	32	25	38	12.45%	0.00%	33.2	0.00%
0.7		10	33.5	33.5	30	37	6.79%	-1.82%	33.2	0.00%
0.9		10	30.3	32.5	3	37	32.71%	7.90%	31.83	4.12%
1.2		10	33.3	32	28	39	10.60%	-1.22%	31.83	4.12%
1.6		10	31.9	36	0	39	36.18%	3.04%	31.83	4.12%
2.1		10	28	34	0	36	48.39%	14.89%	28	15.66%

Reproduction Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	D	32	32	32	37	38	25	38	34	29	32
0.7		31	34	35	30	37	35	32	33	36	32
0.9		32	37	33	30	37	3	34	35	32	30
1.2		36	28	35	38	32	32	31	39	31	31
1.6		0	35	39	38	37	30	37	37	33	33
2.1		5	34	36	35	32	33	35	36	34	0

Graphics

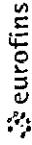


Chain of Custody Record



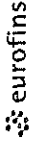
Client Information		Sampler: Sydney Hallum		Lab P/N: Bradford Steve		COC No: 192-68-13-1	
Client Contact: Mr Eddie Pearson		Phone: 501-438-1551		E-Mail: steve.bradford@et.eurofins.com		Page: 1 of 1	
Company: EI Dorado Chemical Company		Address: 4500 North West Avenue		City: Ei Dorado		State of Origin:	
Address: 4500 North West Avenue		City: Ei Dorado		State: AR		Zip: 71730	
Phone: 23120416		Project #: 19200011		Event Desc: Quarterly BIO (X3)		Site: Arkansas	
Email: pearson@isindustries.com		Compliance Project: Normal		PO #: 23120416		WO #:	
Project Name: Pipeline/Quarterly BIO (X3)		Sample Date: 11-06-23 10:00AM		Sample Time: 10:00AM		Sample Type: C	
Site: Arkansas		Matrix: Water		Field Filtered Sample (Yes or No): X		Permitted MSD Types (No): N	
Sample Identification: 010		Sample Date: 11-06-23 10:00AM		Sample Time: 10:00AM		Sample Type: C	
Matrix: Water		Field Filtered Sample (Yes or No): X		Permitted MSD Types (No): N		1000_FH_1002_CD	
Analysis Requested:		Total Number of Containers: 1		LIMS: 274735		TALS: 6597	
Special Instructions/Note: Special Instructions/Note		Analysis Requested:		Total Number of Containers: 1		LIMS: 274735	
Special Instructions/Note: Special Instructions/Note		Analysis Requested:		Total Number of Containers: 1		TALS: 6597	
Special Instructions/Note: Special Instructions/Note		Analysis Requested:		Total Number of Containers: 1		Special Instructions/Note	
Possible Hazard Identification: <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Deliverable Requested I II III IV Other (specify)		Empty Kit Relinquished by: Sydney Hallum		Date: 11-06-23 11:40AM		Company: Sydney Hallum	
Relinquished by: Sydney Hallum		Relinquished by: Sydney Hallum		Date/Time: 11-06-23 11:40AM		Company: Sydney Hallum	
Relinquished by: Sydney Hallum		Relinquished by: Sydney Hallum		Date/Time: 11-06-23 12:14		Company: Sydney Hallum	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No: 106		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:	

Chain of Custody Record



Client Information Company: El Dorado Chemical Company Address: 4500 North West Avenue City: El Dorado State: AR Zip: 71730 Phone: 23120416 Email: epearson@elindustries.com Project Name: Pipeline/Quarterly BIO (X3) Event Desc: Quarterly BIO (X3) Site: Arkansas		Analyst Information Slinger: Sydney Hallum Lab PM: Bradford Steve Phone: 501-438-1551 E Mail: steve.bradford@eurofinsus.com PWSID:		Tracking Information Carrier Tracking Note(s): State of Origin:		COC No: 192-68-13 1 Page: Page 1 of 1 Job #:	
Due Date Requested TAT Requested (days): NORMAL Compliance Project: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No PO #: 23120416 WO #:		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 1000_FH_1002_CD		Analysis Requested		Preservation Codes M: Hexane N: None O: AsNaO2 P: Na2OAS Q: Na2SO3 R: Na2SO4 S: H2SO4 T: TSP Decehydrate U: Acetone V: MCAA W: pH 4-5 Y: Trizma Z: other (specify)	
Sample Identification Sample ID: 010 Sample Date: 11-08-23 10:00AM Sample Time: C Matrix: Water Sample Type: (C=Comp, G=grab) Preservation Code:		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Total Number of Containers 1 Special Instructions/Note: LIMS - 274735 TALS - 6597		Special Instructions/Note	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Deliverable Requested <input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV Other (specify)		Sample Disposal <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements	
Relinquished by: Sydney Hallum Date/Time: 11-08-23 11:36 AM Company: Eurofins		Relinquished by: Sydney Hallum Date/Time: 11-08-23 2:15 PM Company: Eurofins		Relinquished by: D. Brown Date/Time: 11-8-23/1415 Company: Eurofins		Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Empty Kit Relinquished by:		Date:		Method of Shipment:		Cooler Temperature(s) °C and Other Remarks: 0.8	

Chain of Custody Record



Client Information		Sampler: <u>Sudney Hallum</u>		Lab PM: <u>Bradford Steve</u>		Carrier Tracking No(s):		COC No: <u>192-68-13 1</u>			
Client Contact: <u>Mr. Eddie Pearson</u>		Phone: <u>501-438-1551</u>		E Mail: <u>steve.bradford@eurofinsus.com</u>		State of Origin:		Page: <u>1 of 1</u>			
Company: <u>EI Dorado Chemical Company</u>		PWSID:		Analysis Requested						Job #: _____	
Address: <u>4500 North West Avenue</u>		City: <u>Normal</u>		TAT Requested (days): <u>Normal</u>		Due Date Requested:		Preservation Codes:			
City: <u>Normal</u>		State: <u>AR</u>		Compliance Project: <u>Δ Yes Δ No</u>		PO #: <u>23120416</u>		A HCL			
State Zip: <u>AR 71730</u>		Phone: _____		Project #: <u>19200011</u>		WO #: _____		B NaOH			
Email: <u>epearson@sbindustries.com</u>		Project Name: <u>Pipeline/Quarterly BIO (X3) Event Desc. Quarterly BIO (X3)</u>		Site: <u>Arkansas</u>		SSOW#: _____		C Zn Acetate			
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)		D Niinc Acid			
010		11-10-23		10:05 AM		C		E NaHSO4			
Matrix (V=water, S=solid, O=water/oil, B=tissue, A=air)		Preservation Code		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		F MeOH			
Water		C		X		N		G Amchlor			
Total Number of Containers		Special Instructions/Note:		1000_FH_1002_CD		X		H Ascorbic Acid			
1		LIMS: 274735		X		X		I Ice			
		TALS: 6597						J DI Water			
								K EDTA			
								L EDA			
								M Hexane			
								N None			
								O AsNaO2			
								P Na2CO3			
								Q Na2SO3			
								R Na2S2O3			
								S H2SO4			
								T TSP Dodecahydrate			
								U Acetone			
								V MCAA			
								W pH 4-5			
								Y Trima			
								Z other (specify)			
								Other: _____			
Possible Hazard Identification		Deliverable Requested		Empty Kit Relinquished by		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Special Instructions/QC Requirements			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months									
Date		Time		Date		Time		Date			
11-10-23		11:31 AM		11-10-23		11:30 AM		11-10-23			
Requested by: <u>Sudney Hallum</u>		Company: <u>EDCC</u>		Received by: <u>Bradley</u>		Company: _____		Received by: <u>Bradley</u>			
Relinquished by: <u>Bradley</u>		Company: _____		Received by: <u>Bradley</u>		Company: _____		Received by: <u>Bradley</u>			
Relinquished by: _____		Company: _____		Received by: _____		Company: _____		Received by: _____			
Custody Seals Intact		Custody Seal No		Cooler Temperature(s) °C and Other Remarks:		0.7 °C					
Δ Yes Δ No											