

Pace Analytical Services, LLC 9608 Loiret Blvd. Lenexa, KS 66219 (913)599-5665

January 07, 2022

Stacy Ness EEG 220 N Knoxville Avenue Russellville, AR 72801

RE: Project: PCW EFF.T 4TH QTR, L246-058498 Pace Project No.: 60389422

Dear Stacy Ness:

Enclosed are the analytical results for sample(s) received by the laboratory on December 28, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network: • Pace Analytical Services - SE Kansas

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jami Church

Jamie Church jamie.church@pacelabs.com 314-838-7223 Project Manager

Enclosures

cc: Stacy Ness, EEG, Inc.





CERTIFICATIONS

Project: PCW EFF.T 4TH QTR, L246-058498

Pace Project No.: 60389422

Pace Analytical Services Southeast Kansas

808 West McKay, Frontenac, KS 66763 Arkansas Certification #: 18-016-0 Iowa Certification #: 118 Kansas/NELAP Certification #: E-10426 Louisiana Certification #: 03055 Oklahoma Certification #: 9935 Texas Certification #: T104704407 Utah Certification #: KS00021



SAMPLE SUMMARY

Project: PCW EFF.T 4TH QTR, L246-058498

Pace Project No.: 60389422

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60389422001	OUTFALL 001	Water	12/27/21 08:20	12/28/21 08:00



SAMPLE ANALYTE COUNT

Project:PCW EFF.T 4TH QTR, L246-058498Pace Project No.:60389422

Lab ID	Sample ID	Method	Analysts	Analytes Analysts Reported L	
60389422001	OUTFALL 001	EPA 821/R-02/013	MEB	1	PASI-SE

PASI-SE = Pace Analytical Services - SE Kansas



ANALYTICAL RESULTS

Project: PCW EFF.T 4TH QTR, L246-058498

Pace Project No.: 60389422

Sample: OUTFALL 001	Lab ID: 603	89422001	Collected: 12/27	/21 08:20	Received: 12	2/28/21 08:00	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Chronic Toxicity		Analytical Method: EPA 821/R-02/013 Pace Analytical Services - SE Kansas						
Toxicity, Chronic	Complete		1.0	1		12/28/21 09:0	0	



QUALIFIERS

Project: PCW EFF.T 4TH QTR, L246-058498

Pace Project No.: 60389422

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:PCW EFF.T 4TH QTR, L246-058498Pace Project No.:60389422

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60389422001	OUTFALL 001	EPA 821/R-02/013	765571		

Pace Analytical Sample Condition U	pon Receipt	WO#:60389422
Client Name: \mathcal{FE}		
$\sim q$		Pace 🗆 Xroads 🗆 Client 🗆 Other 🗆
v	e Shipping Label Used	
Custody Seal on Cooler/Box Present: Yes X No 🗆	Seals intact: Yes X	
Packing Material: Bubble Wrap Bubble Bags	🗅 🛛 Foam 🗆	None X Other 🗆
Thermometer Used: <u>T-111</u> Type of	fice: (Wat) Blue Nor	
Cooler Temperature (°C): As-read <u>3-4</u> Corr. Fact	or <u>-1.2</u> Correct	
Temperature should be above freezing to 6°C		12/28/21800
Chain of Custody present:	XYes No N/A	
Chain of Custody relinquished:	Ryes No N/A	
Samples arrived within holding time:	Ves No N/A	
Short Hold Time analyses (<72hr):	XYes 🗆 No 🗆 N/A	
Rush Turn Around Time requested:	□Yes XNo □N/A	
Sufficient volume:	XYes □No □N/A	
Correct containers used:	XYes □No □N/A	
Pace containers used:	Xyes □No □N/A	
Containers intact:	XYes □No □N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	□Yes □No XN/A	
Filtered volume received for dissolved tests?	□Yes □No XN/A	
Sample labels match COC: Date / time / ID / analyses	XYes □No □N/A	
Samples contain multiple phases? Matrix:	□Yes XNo □N/A	
Containers requiring pH preservation in compliance?	□Yes □No XN/A	List sample IDs, volumes, lot #'s of preservative and the
(HNO₃, H₂SO₄, HCI<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO)		date/time added.
Cyanide water sample checks:		
Lead acetate strip turns dark? (Record only)	□Yes □No — —	
Potassium iodide test strip turns blue/purple? (Preserve)	□Yes □No	
Trip Blank present:	□Yes □No XN/A	
Headspace in VOA vials (>6mm):	□Yes □No XN/A	
Samples from USDA Regulated Area: State:	□Yes □No XN/A	
Additional labels attached to 5035A / TX1005 vials in the field?		
Client Notification/ Resolution: Copy COC to		Field Data Required? Y / N
Person Contacted: Date/I Comments/ Resolution:	ime:	
REVIEWED		
Project Manager Review: By jchurch at 3:42 pm, 12/30/21	Date	2

Environmental Enterprise Group, Inc.

L244-058498

Environmental Enterprise Group, Inc. 220 North Knoxville Russellville, Arkansas 72801 (479) 968-6767 Fax (479) 968-1956

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CHRONIC TOXICITY TEST FOR EEG CITY CORPORATION

PERMIT # AR 0021768 AFIN # 58-00105

PERFORMED ON:

Pimephales promelas

and

Ceriodaphnia dubia

PREPARED FOR:

Environmental Enterprise Group Inc. P.O BOX 3186 Russellville, AR 72811-3186 479-968-4989

PREPARED BY: Pace Analytical Services, Inc. 808 West McKay Frontenac, KS 66763 1-620-235-0003

January 5, 2022

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REFERENCE #6089422

SUMMARY

A Chronic Whole Effluent Toxicity Test using the 7-day chronic fathead minnows (<u>Pimephales promelas</u>), static renewal larval survival and growth test, and three brood 7-day chronic Cladoceran (<u>Ceriodaphnia dubia</u>), static renewal survival and reproduction test, was conducted on effluent discharge water collected at the EEG CITY CORPORATION effluent discharge from December 27, 2021 to December 31, 2021. All the test methods followed are as listed in <u>EPA 821-R-02-013</u>, "Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms."

Statistically significant (p<0.05) mortality is determined by Dunnet's procedure using average percent survival of each test concentration versus the average survival of the controls. If significant mortality occurs, median lethal concentrations are calculated using effluent concentrations and their corresponding percent mortality data. The 95% confidence intervals are calculated where appropriate by the Spearman-Karber method. Statistical analysis is accomplished by following steps in EPA 821-R-02-013, November 2002 and by use of Toxstat version 3.4.

In minnow section of testing, it was observed that the effluent had no significant effect on the survival of the larvae at the 100% concentration. No significant mortality was observed in the other effluent concentrations after the 7-day exposure period. The No Observed Effect Concentration (NOEC) was determined to be 100% for survival. No significant reduction in growth was observed in the 100% effluent concentration. The Toxic Units is <1. The IC25 is >100. The NOEC for growth in effluent was determined to be 100%. The PMSD is 12.7.

In Cladoceran section of testing, it was observed that the effluent had no significant effect on the survival of the organisms in the 100% effluent concentration. No significant mortality was observed in the other effluent concentrations after the 7-day exposure period. The No Observed Effect Concentration (NOEC) was determined to be 100% for survival. No significant reduction in reproduction was observed in the 100% effluent concentrations. The Toxic Units is <1. The IC25 is >100. The NOEC for reproduction in effluent was determined to be 100%. The PMSD is 15.4.

The chronic toxicity exhibited by the fathead minnows and the <u>Ceriodaphnia</u> treated by the effluent sampled from December 27 to December 31 from the EEG CITY CORPORATION. effluent discharge, is acceptable as described in <u>EPA 821-R-02-013</u>.

REFERENCE #6089422

INTRODUCTION

Pace Analytical was contracted to perform this chronic toxicity test on effluent from the EEG CITY CORPORATION effluent discharge. Chronic toxicity was measured using the <u>Pimephales promelas</u> at larval for survival and growth test and the <u>Ceriodaphnia dubia</u> survival and reproduction test described in <u>EPA 821-</u> <u>R-02-013</u>, "Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms." The raw data of the study is stored at Pace Analytical Services, INC. 808 West McKay, Frontenac, KS 66763.

TEST MATERIAL

EEG CITY CORPORATION personnel collected sampling of the effluent. A sample of the effluent was delivered to Pace by commercial carrier on 12-28-21. Subsequent samples followed by delivery on 12-30-21, and on 1-1-22. All samples were stored at \leq 6° Celsius. Moderately Hard Synthetic Water was used as a control and also to make the required dilutions in the test as described in EPA 821-R-02-013.

TEST METHODS

Pace used EPA test method 1000.0 for conducting the Fathead Minnow, <u>Pimephales promelas</u>, Larval Survival and Growth Test. EPA test method 1002.0 was used for conducting the Cladoceran, <u>Ceriodaphnia dubia</u>, Survival and Reproduction Test. The tests were conducted to estimate the NOEC, and LOEC for survival, growth, and reproduction of these test species.

The <u>Pimephales</u> and <u>Ceriodaphnia</u> tests were initiated on 12-28-21 and carried out until 1-4-22. The Pimephales tests were conducted in 500 ml plastic jars with 250 ml of test solution. Ten larvae were placed in each of at least 5 replicates to make a total of 50 larvae per sample concentration. The <u>Ceriodaphnia</u> tests were carried out in 35ml vials containing 25 ml of test solution. One Neonate was placed in each of 10 replicates to make a total of 10 neonates per sample concentration.

TEST ORGANISMS

Organisms used in these tests were cultured at Pace under controlled temperature and photo period conditions and/or were purchased from an external supplier. Pace maintains records of culture techniques for all organisms, whether produced in house or purchased.

Results

TABLE 1

Permittee: EEG CITY CORPORATION. Effluent discharge.

Date Sampled	No. 1: 12-27-21	6:59
	No. 2: 12-29-21	7:49
	No. 3: 12-31-21	6:08
Test Initiated: 9:00	Date: 12-28-21	

Test End: 9:30

Date: 12-28-2 Date: 1-4-22

Critical Dilution:	100%
Ceriodaphnia dubia	Results
TLP3B	0
TGP3B	0
ТОРЗВ	100
ТРРЗВ	100
ТQР3В	15.18
Pimephales promelas	Results
TLP6C	0
TGP6C	0
TOP6C	100
TPP6C	100
TQP6C	11.79

REFERENCE #6089422

Dilution Water used: Moderately Hard Synthetic Water

FATHEAD MINNOW LARVAE GROWTH AND SURVIVAL (<u>Pimephales promelas</u>)

DATA TABLE FOR GROWTH OF FATHEAD MINNOWS								
Effluent Concentration (%)	Averag A		eight in Mi te Chamb C	Mean Dry Weight (mg)	CV% *			
Control 0%	0.480	0.417	0.522	0.545	0.489	0.491	9.92	
Dilution 1 32%	0.488	0.560	0.532	0.504	0.529	0.523	5.30	
Dilution 2 42%	0.504	0.541	0.483	0.549	0.511	0.518	5.25	
Dilution 3 56%	0.516	0.599	0.593	0.583	0.498	0.558	8.45	
Dilution 4 75%	0.538	0.548	0.558	0.586	0.533	0.553	3.80	
Dilution 5 100%	0.515	0.614	0.492	0.588	0.467	0.535	11.79	

DATA TABLE FOR GROWTH OF FATHEAD MINNOWS

* Coefficient of Variation = Standard Deviation X 100 / Mean

FATHEAD MINNOW SURVIVAL

Conc. %	Percent Survival in Replicate Chambers					Mean Percent Survival			CV %
	А	В	С	D	Е	24hr	48hr	7 day	
Control 0%	100	90	100	100	100	100	100	98.0	5.28
Dilution 1 32%	100	100	100	100	100	100	100	100	0.00
Dilution 2 42%	100	100	100	100	100	100	100	100	0.00
Dilution 3 56%	100	100	100	100	100	100	100	100	0.00
Dilution 4 75%	100	100	100	100	100	100	100	100	0.00
Dilution 5 100%	100	100	90	100	90	100	100	96	6.63

Permittee: EEG CITY CORPORATION. Effluent discharge.

CERIODAPHNIA SURVIVAL AND REPRODUCTION

Replicate	Control	Dilution 1	Dilution 2	Dilution 3	Dilution 4	Dilution 5
	0%	32%	42%	56%	75%	100%
1	22	25	26	19	24	25
2	25	23	19	26	23	21
3	20	15	26	28	27	28
4	23	22	18	22	29	23
5	18	24	19	17	20	22
6	24	21	20	26	18	29
7	22	25	26	24	25	29
8	23	22	20	20	19	27
9	20	25	20	24	24	18
10	24	25	23	18	23	23
Mean	22.1	22.7	21.7	22.4	23.2	24.5
SD	2.183	3.093	3.234	3.777	3.458	3.719
CV %	9.88	13.63	14.90	16.86	14.90	15.18

DATA TABLE FOR <u>CERIODAPHNIA</u> YOUNG PRODUCTION

CERIODAPHNIA MEAN PERCENT SURVIVAL

		Per	cent Effluen	t (%)		
Time	Control	Dilution 1	Dilution 2	Dilution 3	Dilution 4	Dilution 5
Elapsed	0%	32%	42%	56%	75%	100%
24 hrs	100	100	100	100	100	100
48 hrs	100	100	100	100	100	100
7-day	100	100	100	100	100	100
SD	0.0	0.0	0.0	0.0	0.0	0.0
CV %	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 2SUMMARY OF TEST CONDITIONS FOR THE FATHEAD MINNOW(Pimephales promelas) LARVAL SURVIVAL AND GROWTH TEST

1. Test type	SURVIVAL AND GROWTH TEST
2. Temperature	25 degrees Celsius
3. Light quality	Ambient laboratory light
4. Light intensity	Ambient laboratory levels
	Ambient laboratory levels
5. Photoperiod	16 hr light, 8 hr dark
6. Test chamber size	500 ml
7. Test solution volume	250 ml
	200 m
8. Renewal of test concentrations	Daily
9. Age of test organism	< 24 hours
10 No longo (chambar	10
10. No. larvae/chamber	10
11. No. replicates/concentration	5
12. No. larvae/concentration	50
12 Feeding regime	Feed 0.15 g newly hatched brine shrimp
13. Feeding regime	nauplii two times daily. Larvae are not fed
	12 hours prior to termination of test.
14. Cleaning	Siphon daily, immediately before test
-	solution renewal
15. Aeration	None
16 Dilution Water	Moderately Hard Synthetic Water prepared
16. Dilution Water	with MILLI-Q deionized water and reagent
	grade chemicals
17. Effluent concentrations	0%, 32%, 42%, 56%, 75%, 100%
18. Test duration	7 days
19. Endpoints	Survival and growth
20 Toot accontability	80% or greater survival in the controls,
20. Test acceptability	Average dry weight in controls >0.25 mg,
	Coefficient of variation in the control must
	not exceed 40%.

TABLE 2 (CONT.) SUMMARY OF TEST CONDITIONS FOR THE CLADOCERAN (Ceriodaphnia dubia) SURVIVAL AND REPRODUCTION TEST

1. Test type	Static renewal
2. Temperature	25 degrees Celsius
3. Light quality	Ambient laboratory light
4. Light intensity	Ambient laboratory levels
5. Photoperiod	16 hr light, 8 hr dark
6. Test chamber size	30 ml
7. Test solution volume	25 ml
8. Renewal of test concentrations	Daily
9. Age of test organism	< 24 hours
10. No. larvae/chamber	1
11. No. replicates/concentration	10
12. No. larvae/concentration	10
13. Feeding regime	Feed 0.1 ml YCT and 0.1 ml of Algae daily. Larvae are not fed 12 hours prior to termination of test.
14. Cleaning	Siphon daily, immediately before test solution renewal
15. Aeration	None
16. Dilution Water	Moderately Hard Synthetic Water prepared with MILLI-Q deionized water and reagent grade chemicals
17. Effluent concentrations	0%, 32%, 42%, 56%, 75%, 100%
18. Test duration	Until 60% or more surviving control females have three broods or a maximum of 8 days.
19. Endpoints	Survival and Reproduction
20. Test acceptability	80% or greater survival in the controls, Average reproduction rate of 15 young / adult. Coefficient of variation in the control must not exceed 40%.

TABLE 2 (SECTION 2)

BIOMONITORING CHRONIC TOXICITY REPORT FATHEAD MINNOW (<u>Pimephales promelas</u>) CHEMICAL PARAMETERS CHART

Permittee: EEG CITY CORPORATION Effluent discharge.

ANALYSTS: Pace Analytical Services, Inc. Timothy Harrell Mike Bollin

TABLE 2 (SECTION 2) INITIAL WATER QUALITY EFFLUENT CONCENTRATION

	Control	100%
PH	7.4	7.2
D.O.	8.2	9.2
Temp	25.0	25.0
Alk	60	52
Hard	90	56
Cond	311	440
Chlorine	<0.1	<0.1

* D.O. is reported as mg/L Alkalinity is reported as mg/L CaCO3 Hardness is reported as mg/L CaCO3 Conductance is reported as umhos Chlorine is reported as mg/L

TEST WATER QUALITY

24-Hour Water Quality Measurements

PH	D.O.	Temperature
	(mg/l)	(C)
7.6	7.9	24.9
7.7	7.9	24.9
7.8	7.9	24.9
7.9	8.0	24.9
8.0	8.1	24.9
8.0	8.2	24.9
	7.6 7.7 7.8 7.9 8.0	(mg/l) 7.6 7.9 7.7 7.9 7.8 7.9 7.9 8.0 8.0 8.1

48-Hour Water Quality Measurements

To Hoar Hater daa			
Effluent	PH	D.O.	Temperature
Concentration (%)		(mg/l)	(C)
0% Control	7.6	7.8	24.9
32% Effluent	7.6	7.8	24.9
42% Effluent	7.6	7.8	24.9
56% Effluent	7.6	7.8	24.9
75% Effluent	7.6	7.7	24.9
100% Effluent	7.7	7.6	24.9

FINAL WATER QUALITY

EFFLUENT CONCENTRATION

	Control	100%
рН	7.8	8.0
D.O.	6.6	6.7
Temp	25.1	25.1
Alk	56	122
Hard	88	56
Cond	367	1001

* D.O. is reported as mg/L Alkalinity is reported as mg/L CaCO3 Hardness is reported as mg/L CaCO3 Conductance is reported as umhos

TEST VALIDITY

The <u>Pimephales promelas</u> control survival rate was 98.0. The mean dry weight (growth) of the <u>Pimephales promelas</u> was determined at 0.491 g/organism in the controls. The percent coefficient of variation (%CV) values for the fathead minnow control for survival and growth were 5.28 and 9.92. The <u>Ceriodaphnia</u> <u>dubia</u> survival rates were 100 in the control. The <u>Ceriodaphnia</u> in the control produced an average of 22.1 young over the seven-day exposure period. Percent CV values for <u>Ceriodaphnia dubia</u> control survival and reproduction was 0.00 and 9.88. Control data met or exceeded all criteria set out by <u>EPA 821-R-02-013</u> for test acceptance.

REFERENCE TOXICANTS

The absence of significant control mortality during this test indicated the health of the organisms and indicated that any significant mortality in the test concentrations was not due to contaminants or variations in testing conditions.

Reference toxicity testing is routinely performed by staff members in our biomonitoring - bioassay laboratory.

End: 1/4/22 9:30 Start: 12/28/21 9:00

Reference Toxican	t (NaCl)	Pimephales	promelas	
Concentration of Toxicant		Avg. # of Live Org	anisms/replicate	
	0 hrs	24 hrs	48 hrs	7 days
10 g/l	40	8	3	0
8 g/l	40	35	27	6
6 g/l	40	39	35	27
4 g/l	40	40	40	39
2 g/i	40	40	40	39

IC25 (5.22 g/l Sodium Chloride)

Survival NOEC: 4.0 g/l

Reference Toxicar	nt (NaCl)	Ceriodaphr	nia Dubia	
Concentration		Avg. # of Live Org	ganisms/replicate	
of Toxicant				
	0 hrs	24 hrs	48 hrs	7 days
2.5 g/l	10	0	0	0
2.0 g/l	10	10	10	2
1.5 g/l	10	10	10	10
1.0 g/l	10	10	10	10
0.5 g/l	10	10	10	10

IC25 (1.25 g/l Sodium Chloride)

Survival NOEC: 1.5 g/l

Submitted By: Jim Harrell

Timothy Harrell, Technical Director

60389422 EEG FATHEAD SURVIVAL File: 6384922A Transform: ARC SINE(SQUARE ROOT(Y)) Chi-square test for normality: actual and expected frequencies _____ <-1.5 -1.5 to <-0.5 -0.5 to 0.5 >0.5 to 1.5 >1.5 INTERVAL 7.260 2.010 7.260 11.460 EXPECTED 2.010 OBSERVED 1 24 3 0 2 Calculated Chi-Square goodness of fit test statistic = 22.5499 Table Chi-Square value (alpha = 0.01) = 13.277 Data FAIL normality test. Try another transformation. Warning - The first three homogeneity tests are sensitive to non-normal data and should not be performed. 60389422 EEG FATHEAD SURVIVAL File: 6384922A Transform: ARC SINE(SQUARE ROOT(Y)) Shapiro - Wilk's test for normality _____ D = 0.053 W = 0.714Critical W (P = 0.05) (n = 30) = 0.927 Critical W (P = 0.01) (n = 30) = 0.900 ______ Data FAIL normality test. Try another transformation. Warning - The first three homogeneity tests are sensitive to non-normal data and should not be performed.

60389422 EEG FATHEAD SURVIVAL File: 6384922A Transform: ARC SINE(SQUARE ROOT(Y))

SUMMARY	STATISTICS	ON	TRANSFORMED	DATA	TABLE 1	of	2	
---------	------------	----	-------------	------	---------	----	---	--

GRP	IDENTIFICATION	N	MIN	MAX	MEAN
**			********		
1	CONTROL	5	1.249	1.412	1.379
2	32%	5	1.412	1.412	1.412
3	42%	5	1.412	1.412	1.412
4	56%	5	1.412	1.412	1.412
5	75%	5	1.412	1.412	1.412
6	100%	5	1.249	1.412	1.347

60389422 EEG FATHEAD SURVIVAL File: 6384922A Transform: ARC SINE(SQUARE ROOT(Y))

SUMMARY STATISTICS ON TRANSFORMED DATA TABLE 2 of 2

GRP	IDENTIFICATION	VARIANCE	SD	SEM	C.V. %
1	CONTROL	0.005	0.073	0.033	5.28
2	32%	0.000	0.000	0.000	0.00
3	42%	0.000	0.000	0.000	0.00
4	56%	0.000	0.000	0.000	0.00
5	75%	0.000	0.000	0.000	0.00
6	100%	0.008	0.089	0.040	6,63

60389422	EEG	FATHEAD	SURVIVAL	

File: 6384922A Transform: ARC SINE(SQUARE ROOT(Y))

SOURCE	DF	SS	MS	F
Between	5	0.019	0.004	1.680
Within (Error)	24	0.053	0.002	
rotal	29	0.072		

Since F < Critical F FAIL TO REJECT HO: All equal

60389422 EEG FATHEAD SURVIVAL File: 6384922A Transform: ARC SINE(SQUARE ROOT(Y))

DUNNETT'S TEST - TABLE 1 OF 2

Ho:Control<Treatment

GROUP	IDENTIFICATION	TRANSFORMED MEAN	MEAN CALCULATED IN ORIGINAL UNITS	T STAT	SIG
1	CONTROL	1.379	0.980		
2	328	1.412	1.000	-1.095	
3	428	1.412	1.000	-1.095	
4	56%	1.412	1.000	-1.095	
5	75%	1.412	1.000	-1.095	
6	100%	1.347	0.960	1.095	
Dunnet	t table value = 2.36	(1 Tailed V	alue, P=0.05, df=24,	5)	

60389422 EEG FATHEAD SURVIVAL

File: 6384922A Transform: ARC SINE(SQUARE ROOT(Y))

	DUNNETT'S TEST -	TABLE 2 C	DF 2 Ho	:Control<	Treatment
GROUP	IDENTIFICATION	NUM OF REPS	Minimum Sig Diff (IN ORIG. UNITS)	% of CONTROL	DIFFERENCE FROM CONTROL
1	CONTROL	5			
2	328	5	0.031	3.1	-0.020
3	428	5	0.031	3.1	-0.020
4	56%	5	0.031	3.1	-0.020
5	75%	5	0.031	3.1	-0.020
6	100%	5	0.031	3.1	0.020

60389422 EEG FATHEAD GROWTH File: 6389422B Transform: NO TRANSFORMATION Shapiro - Wilk's test for normality D = 0.042W = 0.980 Critical W (P = 0.05) (n = 30) = 0.927 Critical W (P = 0.01) (n = 30) = 0.900 _____ Data PASS normality test at P=0.01 level. Continue analysis. 60389422 EEG FATHEAD GROWTH File: 6389422B Transform: NO TRANSFORMATION Bartlett's test for homogeneity of variance Calculated B1 statistic = 6.24 Table Chi-square value = 15.09 (alpha = 0.01, df = 5) Table Chi-square value = 11.07 (alpha = 0.05, df = 5) Data PASS B1 homogeneity test at 0.01 level. Continue analysis.

60389422 EEG FATHEAD GROWTH File: 6389422B Transform: NO TRANSFORMATION

SUMMARY STATISTICS ON TRANSFORMED DATA TABLE 1 of 2

GRP	IDENTIFICATION	N	MIN	MAX	MEAN
** .= .**					
1	CONTROL	5	0.417	0.545	0.491
2	32%	5	0.488	0.560	0.523
3	42%	5	0.483	0.549	0.518
4	56%	5	0.498	0.599	0.558
5	75%	5	0.533	0.586	0.553
6	100%	5	0.467	0.614	0.535

60389422 EEG FATHEAD GROWTH File: 6389422B Transform: NO TRANSFORMATION

SUMMARY STATISTICS ON TRANSFORMED DATA TABLE 2 of 2

GRP	IDENTIFICATION	VARIANCE	SD	SEM	C.V. %
1	CONTROL	0.002	0.049	0.022	9.92
2	328	0.001	0.028	0.012	5.30
3	42%	0.001	0.027	0.012	5.25
4	56%	0.002	0.047	0.021	8.45
5	75%	0.000	0.021	0.009	3.80
6	100%	0.004	0.063	0.028	11.79

603894	122	EEG	FATHEAD	GROWTH		
File:	638	394221	3	Transform:	NO	TRANSFORMATION

		ANOVA TABLE		
SOURCE	DF	SS	MS	F
Between	5	0.015	0.003	1.750
Within (Error)	24	0.042	0.002	
Total	29	0.057		
Critical F valu	e = 2.62	(0.05,5,24)		

Since F < Critical F FAIL TO REJECT Ho: All equal

60389422 EEG FATHEAD GROWTH File: 6389422B Transform: NO TRANSFORMATION _____

DUNNETT'S TEST - TABLE 1 OF 2 Ho:Control<Treatment

GROUP	IDENTIFICATION	TRANSFORMED MEAN	MEAN CALCULATED IN ORIGINAL UNITS	T STAT	SIG
\perp	CONTROL	0.491	0.491		
2	32%	0.523	0.523	-1.208	
3	428	0.518	0.518	-1.019	
4	56%	0.558	0.558	-2.537	
5	75%	0.553	0.553	-2.341	
6	100%	0.535	0.535	-1.684	
Dunnett	table value = 2.36	(1 Tailed V	alue, P=0.05, df=24,	5)	

60389422 EEG FATHEAD GROWTH

File: 6389422B Transform: NO TRANSFORMATION

	DUNNETT'S TEST -	TABLE 2 C	DF 2 Ho	:Control<	Treatment
GROUP	IDENTIFICATION	NUM OF REPS	Minimum Sig Diff (IN ORIG. UNITS)	% of CONTROL	DIFFERENCE FROM CONTROL
	CONTROL				
2	32%	5	0.063	12.7	-0.032
3	428	5	0.063	12.7	-0.027
4	56%	5	0.063	12.7	-0.067
5	75%	5	0.063	12.7	-0.062
6	100%	5	0.063	12.7	-0.045

FISHER'S EXACT TEST

		NUMBER OF			
IDENTIFICATION	ALIVE	DEAD	TOTAL ANIMALS		
CONTROL	10	0	10		
32%	10	0	10		
TOTAL	20	0	20		

CRITICAL FISHER'S VALUE (10,10,10) (p=0.05) IS 6. b VALUE IS 10. Since b is greater than 6 there is no significant difference between CONTROL and TREATMENT at the 0.05 level.

FI	SHER'S EXACT	TEST				
		NUMBER OF				
IDENTIFICATION	ALIVE	DEAD	TOTAL ANIMALS			
CONTROL	10	0	10			
42%	10	0	10			
TOTAL	20	0	20			

CRITICAL FISHER'S VALUE (10,10,10) (p=0.05) IS 6. b VALUE IS 10. Since b is greater than 6 there is no significant difference between CONTROL and TREATMENT at the 0.05 level.

	FISHER'S EXACT	TEST	
		NUMBE	
IDENTIFICATION	ALIVE	DEAD	TOTAL ANIMALS
CONTROL	10	0	10
56%	10	0	10

TOTAL	20	0	20			
CRITICAL FISHER'S VALUE (10,10,10) (p=0.05) IS 6. b VALUE IS 10. Since b is greater than 6 there is no significant difference between CONTROL and TREATMENT at the 0.05 level.						
	FISHER'S EXACT	TEST				
		NUMBI	ER OF			
IDENTIFICATION	ALIVE	DEAD	TOTAL ANIMALS			
CONTROL	10	0	10			
75%	10	0	10			
TOTAL	20	0	20			
CRITICAL FISHER'S VALUE (10,10,10) (p=0.05) IS 6. b VALUE IS 10. Since b is greater than 6 there is no significant difference between CONTROL and TREATMENT at the 0.05 level.						
	FISHER'S EXACT	TEST				

		NUMBER OF			
IDENTIFICATION	ALIVE	DEAD	TOTAL ANIMALS		
CONTROL	10	0	10		
100%	10	0	10		
TOTAL	20 =======	0	20		

CRITICAL FISHER'S VALUE (10,10,10) (p=0.05) IS 6. b VALUE IS 10. Since b is greater than 6 there is no significant difference between CONTROL and TREATMENT at the 0.05 level.

SUMMARY OF FISHER'S EXACT TESTS

_____^

GROUP	IDENTIFICATION	EXPOSED	DEAD	(P=.05)
	CONTROL	10	0	
1	32%	10	0	
2	42%	10	0	
3	56%	10	0	
4	75%	10	0	
5	100%	10	0	

60389422 EEG CERIODAPHNIA DUBIA SUR File: 6389422D Transform: NO TRANSFORM

SUMMARY STATISTICS ON TRANSFORMED DATA TABLE 1 of 2

1 CONTROL 10 1.000 1.000 1.000 2 32% 10 1.000 1.000 1.000 3 42% 10 1.000 1.000 1.000 4 56% 10 1.000 1.000 1.000 5 75% 10 1.000 1.000 1.000 6 100% 10 1.000 1.000 1.000	GRP	IDENTIFICATION	N	MIN	MAX	MEAN
2 32% 10 1.000 1.000 1.000 3 42% 10 1.000 1.000 1.000 4 56% 10 1.000 1.000 1.000 5 75% 10 1.000 1.000 1.000						
342%101.0001.0001.000456%101.0001.0001.000575%101.0001.0001.000	1	CONTROL	10	1.000	1.000	1.000
4 56% 10 1.000 1.000 1.000 5 75% 10 1.000 1.000 1.000	2	32%	10	1.000	1.000	1.000
5 75% 10 1.000 1.000 1.000	3	42%	10	1.000	1.000	1.000
	4	56%	10	1.000	1.000	1.000
	5	75%	10	1.000	1.000	1.000
	6	100%	10	1.000	1.000	1.000

60389422 EEG CERIODAPHNIA DUBIA SUR File: 6389422D Transform: NO TRANSFORM

SUMMARY STATISTICS ON TRANSFORMED DATA TABLE 2 of 2

	IDENTIFICATION	VARIANCE	SD	SEM	C.V. %
1	CONTROL	0.000	0.000	0.000	0.00
2	32%	0.000	0.000	0.000	0.00
3	42%	0.000	0.000	0.000	0.00
4	56%	0.000	0.000	0.000	0.00
5	75%	0.000	0.000	0.000	0.00
6	100%	0.000	0.000	0.000	0.00

.

60389422 EEG CERIODAPHNIA DUBIA REP File: 6389422e Transform: NO TRANSFORMATION Chi-square test for normality: actual and expected frequencies INTERVAL <-1.5 -1.5 to <-0.5 -0.5 to 0.5 >0.5 to 1.5 >1.5 ----------EXPECTED4.02014.52022.92014.5204.020OBSERVED41719191 19 Calculated Chi-Square goodness of fit test statistic = 4.7451 Table Chi-Square value (alpha = 0.01) = 13.277 Data PASS normality test. Continue analysis. 60389422 EEG CERIODAPHNIA DUBIA REP File: 6389422e Transform: NO TRANSFORMATION Bartlett's test for homogeneity of variance Calculated B1 statistic = 3.00 Table Chi-square value = 15.09 (alpha = 0.01, df = 5) Table Chi-square value = 11.07 (alpha = 0.05, df = 5)

Data PASS B1 homogeneity test at 0.01 level. Continue analysis.

60389422 EEG CERIODAPHNIA DUBIA REP File: 6389422e Transform: NO TRANSFORMATION

SUMMARY STATISTICS ON TRANSFORMED DATA TABLE 1 of 2

GRP	IDENTIFICATION	N	MIN	MAX	MEAN
1	CONTROL	10	18.000	25.000	22.100
2	328	10	15.000	25.000	22.700
3	428	10	18.000	26.000	21.700
4	56%	10	17.000	28.000	22.400
5	75%	10	18.000	29.000	23.200
6	100%	10	18.000	29.000	24.500

60389422 EEG CERIODAPHNIA DUBIA REP File: 6389422e Transform: NO TRANSFORMATION

SUMMARY STATISTICS ON TRANSFORMED DATA TABLE 2 of 2

GRP	IDENTIFICATION	VARIANCE	SD	SEM	C.V. %
1	CONTROL	4.767	2,183	0.690	9.88
2	32%	9.567	3.093	0.978	13.63
3	42%	10.456	3.234	1.023	14.90
4	56%	14.267	3.777	1.194	16.86
5	75%	11,956	3.458	1.093	14.90
6	100%	13.833	3.719	1.176	15.18
20222					

60389422 EEG CERIODAPHNIA DUBIA REP

File: 6389422e Transform: NO TRANSFORMATION

		ANOVA TABLE		
SOURCE	DF	SS	MS	F
Between	5	49.133	9.827	0.909
Within (Error)	54	583.600	10.807	
Total	59	632.733		
Critical F valu	e = 2.45	(0.05,5,40)		

Since F < Critical F FAIL TO REJECT Ho: All equal

60389422 EEG CERIODAPHNIA DUBIA REP File: 6389422e Transform: NO TRANSFORMATION _____

DUNNETT'S TEST - TABLE 1 OF 2

Ho:Control<Treatment

		TRANSFORMED	MEAN CALCULATED IN		
GROUP	IDENTIFICATION	MEAN	ORIGINAL UNITS	T STAT	STG
			ORIGINAL UNIIS	I SIAI	PIG
1	CONTROL	22.100	22.100		
2	32%	22.700	22.700	-0.408	
3	42%	21.700	21.700	0.272	
4	56%	22.400	22.400	-0.204	
5	75%	23.200	23.200	-0.748	
б	100%	24.500	24.500	-1.632	
Dunnet	t table value = 2.31	(1 Tailed V	alue, P=0.05, df=40,	5)	

60389422 EEG CERIODAPHNIA DUBIA REP File: 6389422e Transform: NO TRANSFORMATION

	DUNNETT'S TEST -	TABLE 2 C	DF 2 Ho	:Control<	Treatment
GROUP	IDENTIFICATION	NUM OF REPS	Minimum Sig Diff (IN ORIG. UNITS)	% of CONTROL	DIFFERENCE FROM CONTROL
1	CONTROL	10			
2	32%	10	3.396	15.4	-0.600
3	42%	10	3.396	15.4	0.400
4	56%	10	3.396	15.4	-0.300
5	75%	10	3.396	15.4	-1.100
6	100%	10	3.396	15.4	-2.400

Conc. ID	1	2 3	4	5	6		
Conc. Tested	0	32 42	56	75	100		
Response 1 Response 2 Response 3 Response 4 Response 5	.480 .48 .417 .50 .522 .55 .545 .50 .489 .52	50 .541 32 .483 04 .549	.516 .599 .593 .583 .498	.538 .548 .558 .586 .533	.515 .614 .492 .588 .467		
<pre>*** Inhibition Concentration Percentage Estimate *** Toxicant/Effluent: EEG Test Start Date: 12/28/21 Test Ending Date: 1/4/22 Test Species: FATHEAD Test Duration: 7 DAYS DATA FILE:</pre>							
Conc. Number ID Replicat				Std. Dev. Resp	Pooled ponse Means		
1 5 2 5 3 5	0.00 32.00 42.0	00 C	.523 (0.049 0.028 0.027	0.529 0.529 0.529		
4 5 5 5 6 5	56.00 75.00 100.00	00 C).558 ().553 (0.047 0.021 0.063	0.529 0.529 0.529		

*** No Linear Interpolation Estimate can be calculated from the input data since none of the (possibly pooled) group response means were less than 75% of the control response mean.

Conc. ID	1	2	3	4	5	6
Conc. Tested	0	32	42	56	75	100
Response 1 Response 2 Response 3 Response 4 Response 5 Response 6 Response 7 Response 8 Response 9 Response 10	22 25 20 23 18 24 22 23 20 24	25 23 15 22 24 21 25 22 25 25	26 19 26 18 19 20 26 20 20 20 23	19 26 28 22 17 26 24 20 24 18	24 23 27 29 20 18 25 19 24 23	25 21 28 23 22 29 29 29 27 18 23
*** Inhibition C Toxicant/Effluen Test Start Date: Test Species: DU Test Duration: DATA FILE:	t: EEG 12/28/21 '	Test End S	-	/4/22		
Conc. Number ID Replicat		ration	Response Means			ooled nse Means
1 10 2 10 3 10 4 10 5 10 6 10	0 32 42 56 75	.000 .000 .000 .000 .000 .000	22.100 22.700 21.700 22.400 23.200 24.500	2.18 3.09 3.23 3.77 3.45	33 22 33 22 34 22 77 22 58 22	
*** No Linear In	terpolation	Estimate	e can be calo	culated fr	com the	

*** No Linear Interpolation Estimate can be calculated from the input data since none of the (possibly pooled) group response means were less than 75% of the control response mean.

Environmental Enterprise Group, Inc. 220 North Knoxville Russellville, Arkansas 72801 (479) 968-6767 Fax (479) 968-1956			Laboratory Control Remarks Number (Please note special	detection limits below.)	22/28/ 04	80 G(MAND			Time: COO	Time:	Time:	
Environme R (479) 968	Requested Analysis		Col		à	08/1721			The Date:	Date:	iory: Date:	
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Environmental Enterprise Group, Inc.	Company Name: Phone #:	City Corporation Address: Fax #:	P.O. Box 3186 Russellville, AR 72811-3186 Project Name or Number: פרש באירא שבד דבאירא עבר מערבילי	Sampling Personnel Signature(s): Buch	Sample I.D., Date Time Cont.Type # of 24 Pr 05 Pr 15 Cont.Type # of 24 Pr 05 Pr 15 Containers	Outfall 001oFF 12(27/21 659 X X 1			Relinquished by: Rucht	Received by: KSRICA A.	Relinquished by: MRICAA.	Comments:

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Page 38 of 42

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Environmental Enterprise Group, Inc. 220 North Knoxville Russellville, Arkansas 72801 (479) 968-6767 Fax (479) 968-1956

Company Name: Phone #:		Requested Analysis		
City Corporation	(479) 968-4989			(00)
Address: Fax #:				rega
P.O. Box 3186 Russellville, AR 72811-3186	(479) 968-3430		Laboratory	
	Purchase Order #:		Control	Remarks
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Comments:				

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Pace Analytical Sample Condition U	Jpon Receipt	Í
l.		1000
Client Name: EEG BussellvilleA	R.	_ pag
Courier: FedEx UPS VIA Clay		Pace 🗆 Xroads 🗆 Client 🗆 Other 🗆
Tracking #: Pac	ce Shipping Label Used	d? Yes □ No X
Custody Seal on Cooler/Box Present: Yes X No □	Seals intact: Yes X	K No 🗆
Packing Material: Bubble Wrap □ Bubble Bags Thermometer Used: T-111 Type o	□ Foam □ f Ice: (Wet) Blue Not	
Cooler Temperature (°C): As-read 3.6 Corr. Fact	tor -1.2 Correct	ted Z. 6 Date and initials of person examining contents:
Temperature should be above freezing to 6°C		TS 90012/3021
Chain of Custody present:	XYes □No □N/A	
Chain of Custody relinquished:	Yes No N/A	
Samples arrived within holding time:	Yes No N/A	
Short Hold Time analyses (<72hr):	XYes No N/A	
Rush Turn Around Time requested:	□Yes XNo □N/A	
Sufficient volume:	XYes □No □N/A	
Correct containers used:	XYes □No □N/A	
Pace containers used:	XYes □No □N/A	
Containers intact:	Xyes □No □N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	□Yes □No XN/A	
Filtered volume received for dissolved tests?	□Yes □No XN/A	
Sample labels match COC: Date / time / ID / analyses	XYes □No □N/A	
Samples contain multiple phases? Matrix:	□Yes XNo □N/A	
Containers requiring pH preservation in compliance? (HNO₃, H₂SO₄, HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO)	□Yes □No XN/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks:	□Yes □No	
Lead acetate strip turns dark? (Record only) Potassium iodide test strip turns blue/purple? (Preserve)		
Trip Blank present:	□Yes □No XN/A	
Headspace in VOA vials (>6mm):	□Yes □No XN/A	
Samples from USDA Regulated Area: State:	□Yes □No XN/A	
Additional labels attached to 5035A / TX1005 vials in the field	d? □Yes □No Xx/A	
Client Notification/ Resolution: Copy COC		Field Data Required? Y / N
Person Contacted: Date	/Time:	
Comments/ Resolution:		
Project Manager Review:	Dat	ie:

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Environmental Enterprise Group, Inc. 220 North Knoxville Russellville, Arkansas 72801 (479) 968-6767 Fax (479) 968-1956

Chy Corporation (479) 988-4369 Address: Far H: Polo: Bance of Banc	Company Name:	1d	Phone #:			Requested Analysis		
Address: Fax #: Address: Fax #: P.O. Box 3186 Russellville, AR 72811-3186 (479) 968-3430 Project Name or Number: Purchase Order #: P.O. Box 3166 Russellville, AR 72811-3186 (479) 968-3430 Project Name or Number: Purchase Order #: Row 1 Purchase Order #: Sample LD. Date Time Edit # Sample LD. <td< th=""><th>City Corporation</th><th></th><th>(479) 96</th><th>8-4989</th><th></th><th></th><th></th><th></th></td<>	City Corporation		(479) 96	8-4989				
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GEL		
Client Name: ECG		
Courier: FedEx 🗆 UPS 🗆 VIA 🕅 Clay 🗆 PE	EX 🗆 🛛 ECI 🗆	Pace 🗆 Xroads 🗆 Client 🗆 Other 🗆
Tracking #: Pace	Shipping Label Used	J? Yes □ No X
Custody Seal on Cooler/Box Present: Yes X No □	Seals intact: Yes X	No 🗆
Packing Material: Bubble Wrap Bubble Bags	Foam 🗀	None X Other 🗆
	ce: Wet Blue Nor	
Cooler Temperature (°C): As-read 2.6 Corr. Factor	r1.2 Correct	ted 1, 4 Date and initials of person examining contents: 4
Temperature should be above freezing to 6°C		1/1/22/0:30
Chain of Custody present:	XYes □No □N/A	
Chain of Custody relinquished:	Yes □No □N/A	
Samples arrived within holding time:	Stes □No □N/A	
Short Hold Time analyses (<72hr):	XYes Divo DN/A	
Rush Turn Around Time requested:	□Yes XNo □N/A	
Sufficient volume:	XYes No N/A	
Correct containers used:	XYes □No □N/A	
Pace containers used:	XYes □No □N/A	
Containers intact:	XYes No N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	□Yes □No XN/A	
Filtered volume received for dissolved tests?	□Yes □No XN/A	
Sample labels match COC: Date / time / ID / analyses	XYes □No □N/A	
Samples contain multiple phases? Matrix:	□Yes XNo □N/A	
Containers requiring pH preservation in compliance?	□Yes □No XN/A	List sample IDs, volumes, lot #'s of preservative and the
(HNO ₃ , H ₂ SO ₄ , HCI<2; NaOH>9 Sulfide, NaOH>10 Cyanide)		date/time added.
(Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) Cyanide water sample checks:		
Lead acetate strip turns dark? (Record only)	□Yes □No	
Potassium iodide test strip turns blue/purple? (Preserve)	□Yes □No	
Trip Blank present:	□Yes □No XN/A	
Headspace in VOA vials (>6mm):	□Yes □No XN/A	
Samples from USDA Regulated Area: State:	□Yes □No XN/A	
Additional labels attached to 5035A / TX1005 vials in the field?		
Client Notification/ Resolution: Copy COC to		Field Data Required? Y / N
Person Contacted: Date/Ti		
Comments/ Resolution:		

Project Manager Review: