

May 24, 2022

Stacy Ness
EEG
220 N Knoxville Avenue
Russellville, AR 72801

RE: Project: CITY CORPORATION, L246-058969
Pace Project No.: 60399856

Dear Stacy Ness:

Enclosed are the analytical results for sample(s) received by the laboratory on May 10, 2022. 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,



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

Enclosures

cc: Stacy Ness, EEG, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CITY CORPORATION, L246-058969

Pace Project No.: 60399856

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 #: T104704558-21-3

Utah Certification #: KS00021

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: CITY CORPORATION, L246-058969

Pace Project No.: 60399856

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60399856001	OUTFALL 001	Water	05/09/22 07:30	05/10/22 09:45

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SAMPLE ANALYTE COUNT

Project: CITY CORPORATION, L246-058969

Pace Project No.: 60399856

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60399856001	OUTFALL 001	EPA 821/R-02/013	MEB	1	PASI-SE

PASI-SE = Pace Analytical Services - SE Kansas

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ANALYTICAL RESULTS

Project: CITY CORPORATION, L246-058969

Pace Project No.: 60399856

Sample: OUTFALL 001	Lab ID: 60399856001	Collected: 05/09/22 07:30	Received: 05/10/22 09:45	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		05/10/22 13:00		

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: CITY CORPORATION, L246-058969

Pace Project No.: 60399856

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CITY CORPORATION, L246-058969

Pace Project No.: 60399856

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60399856001	OUTFALL 001	EPA 821/R-02/013	787676		

REPORT OF LABORATORY ANALYSIS

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Pace
ANALYTICAL SERVICES

DC#_ Title: ENV-FRM-LENE-0009_Sample C

Revision: 2 Effective Date: 01/12/2022

WO#: 60399856



Client Name: EEB - City Corp

Courier: FedEx UPS VIA Clay PEX ECI Pace Xroads Client Other

Tracking #: _____ Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other

Thermometer Used: T-111 Type of Ice: Wet Blue None

Cooler Temperature (°C): As-read 1.8 Corr. Factor -0.8 Corrected 1.0

Date and initials of person examining contents:

MB 5/10/22

Temperature should be above freezing to 6°C

Chain of Custody present:	XYes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	945
Chain of Custody relinquished:	XYes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	
Samples arrived within holding time:	XYes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	
Short Hold Time analyses (<72hr):	XYes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient volume:	XYes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	
Correct containers used:	XYes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	
Pace containers used:	XYes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	
Containers intact:	XYes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Sample labels match COC: Date / time / ID / analyses	XYes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	
Samples contain multiple phases? Matrix:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers requiring pH preservation in compliance? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks:		
Lead acetate strip turns dark? (Record only)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Potassium iodide test strip turns blue/purple? (Preserve)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Samples from USDA Regulated Area: State:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

REFERENCE #60399856

**CHRONIC TOXICITY TEST FOR
EEG CITY CORPORATION**

PERMIT # AR 0021768
AFIN # 58-00105

PERFORMED ON:

Pimephales promelas

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

May 19, 2022

TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
SUMMARY	3
INTRODUCTION	4
TEST MATERIAL	4
TEST METHODS	4
TEST ORGANISMS	4
TEST CONDITIONS	8
TEST VALIDITY	12
REFERENCE TOXICANT SUMMARY	13
APPENDIX A – STATISTICAL ANALYSIS	
APPENDIX B - CHAIN OF CUSTODY FORMS	

SUMMARY

A Chronic Whole Effluent Toxicity Test using the 7-day chronic fathead minnows (*Pimephales promelas*) static renewal larval survival, and growth test, was conducted on effluent discharge water collected at the EEG CITY CORPORATION effluent discharge from May 9, 2022 to May 13, 2022. All the test methods followed are as listed in EPA 821-R-02-013, "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-Kärber 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 16.3.

The chronic toxicity exhibited by the fathead minnows treated by the effluent sampled from May 9 to May 13 from the EEG CITY CORPORATION. effluent discharge, is acceptable as described in EPA 821-R-02-013.

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 Pimephales promelas at larval for survival and growth test described in EPA 821-R-02-013, "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 5-10-22. Subsequent samples followed by delivery on 5-12-22, and on 5-14-22. All samples were stored at $\leq 6^{\circ}$ 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, Pimephales promelas, Larval Survival and Growth Test. The test was conducted to estimate the NOEC, and LOEC for survival, and growth, of this test species.

The Pimephales test was initiated on 5-10-22 and carried out until 5-17-22. The Pimephales test was 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

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: 5-9-22	7:30
	No. 2: 5-11-22	7:15
	No. 3: 5-13-22	7:25

Test Initiated: 13:00	Date: 5-10-22
Test End: 13:15	Date: 5-17-22

Critical Dilution:	100%
Ceriodaphnia dubia	Results
TLP3B	
TGP3B	
TOP3B	
TPP3B	
TQP3B	
Pimephales promelas	Results
TLP6C	0
TGP6C	0
TOP6C	100
TPP6C	100
TQP6C	15.85

Dilution Water used: Moderately Hard Synthetic Water

FATHEAD MINNOW LARVAE GROWTH AND SURVIVAL
(Pimephales promelas)

DATA TABLE FOR GROWTH OF FATHEAD MINNOWS

Effluent Concentration (%)	Average Dry Weight in Milligrams in Replicate Chambers					Mean Dry Weight (mg)	CV% *
	A	B	C	D	E		
Control 0%	0.546	0.494	0.527	0.524	0.533	0.525	3.65
Dilution 1 32%	0.544	0.503	0.448	0.467	0.562	0.505	9.64
Dilution 2 42%	0.483	0.542	0.430	0.507	0.519	0.496	8.60
Dilution 3 56%	0.480	0.467	0.445	0.492	0.408	0.458	7.23
Dilution 4 75%	0.655	0.421	0.488	0.500	0.525	0.518	16.57
Dilution 5 100%	0.414	0.627	0.467	0.555	0.512	0.515	15.85

* Coefficient of Variation = Standard Deviation X 100 / Mean

FATHEAD MINNOW SURVIVAL

Conc. %	Percent Survival in Replicate Chambers					Mean Percent Survival			CV %
	A	B	C	D	E	24hr	48hr	7 day	
Control 0%	100	100	100	100	100	100	100	100	0.00
Dilution 1 32%	100	100	90	90	100	100	100	96.0	6.63
Dilution 2 42%	100	100	90	100	100	100	100	98.0	5.28
Dilution 3 56%	100	100	90	100	90	100	100	96.0	6.63
Dilution 4 75%	100	90	100	100	100	100	100	98.0	5.28
Dilution 5 100%	90	100	100	100	100	100	100	98.0	5.28

TABLE 2
SUMMARY OF TEST CONDITIONS FOR THE FATHEAD MINNOW
(*Pimephales promelas*) LARVAL SURVIVAL AND GROWTH 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	500 ml
7. Test solution volume	250 ml
8. Renewal of test concentrations	Daily
9. Age of test organism	< 24 hours
10. No. larvae/chamber	10
11. No. replicates/concentration	5
12. No. larvae/concentration	50
13. Feeding regime	Feed 0.15 g newly hatched brine shrimp 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 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. Test acceptability	80% or greater survival in the controls, Average dry weight in controls >0.25 mg, Coefficient of variation in the control must not exceed 40%.

TABLE 2 (SECTION 2)

BIOMONITORING CHRONIC TOXICITY REPORT
 FATHEAD MINNOW (Pimephales promelas)
 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	7.6	8.2
D.O.	8.0	7.4
Temp	25.0	25.0
Alk	60	138
Hard	90	120
Cond	344	405
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

Effluent Concentration (%)	PH	D.O. (mg/l)	Temperature (C)
0% Control	7.2	6.9	25.1
32% Effluent	7.3	6.8	25.0
42% Effluent	7.5	6.7	25.0
56% Effluent	7.7	6.6	25.0
75% Effluent	7.8	6.6	25.0
100% Effluent	7.8	6.6	25.0

48-Hour Water Quality Measurements

Effluent Concentration (%)	PH	D.O. (mg/l)	Temperature (C)
0% Control	7.4	6.9	25.0
32% Effluent	7.5	6.9	24.9
42% Effluent	7.5	6.8	24.9
56% Effluent	7.6	6.8	24.9
75% Effluent	7.8	6.7	24.9
100% Effluent	8.0	6.7	24.9

FINAL WATER QUALITY

EFFLUENT CONCENTRATION

	Control	100%
pH	7.5	8.0
D.O.	7.1	6.9
Temp	25.1	25.0
Alk	62	152
Hard	94	44
Cond	384	724

- * 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 Pimephales promelas control survival rate was 100. The mean dry weight (growth) of the Pimephales promelas was determined at 0.525 g/organism in the controls. The percent coefficient of variation (%CV) values for the fathead minnow control for survival and growth were 0.00 and 3.65. Control data met or exceeded all criteria set out by EPA 821-R-02-013 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.

Start: 4/5/22 11:30 End: 4/12/22 11:00

Concentration of Toxicant	Avg. # of Live Organisms/replicate			
	0 hrs	24 hrs	48 hrs	7 days
10 g/l	40	5	3	0
8 g/l	40	31	21	7
6 g/l	40	37	29	25
4 g/l	40	40	40	40
2 g/l	40	40	40	38

IC25 (5.11 g/l Sodium Chloride)

Survival NOEC: 4.0 g/l

Submitted By: Tim Harrell
 Timothy Harrell, Technical Director

60399856 EEG CITY CORP FATHEAD SURVIVAL

File: C:\TOXSTAT\DATA\6399856A.

Transform: ARC SINE(SQUARE ROOT(Y))

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
EXPECTED	2.010	7.260	11.460	7.260	2.010
OBSERVED	3	4	17	6	0

Calculated Chi-Square goodness of fit test statistic = 6.8583

Table Chi-Square value (alpha = 0.01) = 13.277

Data PASS normality test. Continue analysis.

60399856 EEG CITY CORP FATHEAD SURVIVAL

File: C:\TOXSTAT\DATA\6399856A.

Transform: ARC SINE(SQUARE ROOT(Y))

Shapiro - Wilk's test for normality

D = 0.127

W = 0.774

Critical 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.

60399856 EEG CITY CORP FATHEAD SURVIVAL

File: C:\TOXSTAT\DATA\6399856A.

Transform: ARC SINE(SQUARE ROOT(Y))

SUMMARY STATISTICS ON TRANSFORMED DATA TABLE 1 of 2

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

60399856 EEG CITY CORP FATHEAD SURVIVAL

File: C:\TOXSTAT\DATA\6399856A.

Transform: ARC SINE(SQUARE ROOT(Y))

SUMMARY STATISTICS ON TRANSFORMED DATA TABLE 2 of 2

GRP	IDENTIFICATION	VARIANCE	SD	SEM	C.V. %
1	CONTROL	0.000	0.000	0.000	0.00
2	32%	0.008	0.089	0.040	6.63
3	42%	0.005	0.073	0.033	5.28
4	56%	0.008	0.089	0.040	6.63
5	75%	0.005	0.073	0.033	5.28
6	100%	0.005	0.073	0.033	5.28

60399856 EEG CITY CORP FATHEAD SURVIVAL

File: C:\TOXSTAT\DATA\6399856A.

Transform: ARC SINE(SQUARE ROOT(Y))

ANOVA TABLE

SOURCE	DF	SS	MS	F
Between	5	0.015	0.003	0.567
Within (Error)	24	0.127	0.005	
Total	29	0.143		

Critical F value = 2.62 (0.05,5,24)

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

60399856 EEG CITY CORP FATHEAD SURVIVAL

File: C:\TOXSTAT\DATA\6399856A.

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	1.412	1.000		
2	32%	1.347	0.960	1.414	
3	42%	1.379	0.980	0.707	
4	56%	1.347	0.960	1.414	
5	75%	1.379	0.980	0.707	
6	100%	1.379	0.980	0.707	

Dunnett table value = 2.36 (1 Tailed Value, P=0.05, df=24,5)

60399856 EEG CITY CORP FATHEAD SURVIVAL

File: C:\TOXSTAT\DATA\6399856A.

Transform: ARC SINE(SQUARE ROOT(Y))

DUNNETT'S TEST - TABLE 2 OF 2

Ho:Control<Treatment

GROUP	IDENTIFICATION	NUM OF REPS	Minimum Sig Diff (IN ORIG. UNITS)	% of CONTROL	DIFFERENCE FROM CONTROL
1	CONTROL	5			
2	32%	5	0.045	4.5	0.040
3	42%	5	0.045	4.5	0.020
4	56%	5	0.045	4.5	0.040
5	75%	5	0.045	4.5	0.020
6	100%	5	0.045	4.5	0.020

60399856 EEG CITY CORP FATHEAD GROWTH
File: 6399856B Transform: NO TRANSFORMATION

Shapiro - Wilk's test for normality

D = 0.079

W = 0.964

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.

60399856 EEG CITY CORP FATHEAD GROWTH
File: 6399856B Transform: NO TRANSFORMATION

Bartlett's test for homogeneity of variance

Calculated B1 statistic = 9.77

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.

60399856 EEG CITY CORP FATHEAD GROWTH
 File: 6399856B Transform: NO TRANSFORMATION

SUMMARY STATISTICS ON TRANSFORMED DATA TABLE 1 of 2

GRP	IDENTIFICATION	N	MIN	MAX	MEAN
1	CONTROL	5	0.494	0.546	0.525
2	32%	5	0.448	0.562	0.505
3	42%	5	0.430	0.542	0.496
4	56%	5	0.408	0.492	0.458
5	75%	5	0.421	0.655	0.518
6	100%	5	0.414	0.627	0.515

60399856 EEG CITY CORP FATHEAD GROWTH
 File: 6399856B Transform: NO TRANSFORMATION

SUMMARY STATISTICS ON TRANSFORMED DATA TABLE 2 of 2

GRP	IDENTIFICATION	VARIANCE	SD	SEM	C.V. %
1	CONTROL	0.000	0.019	0.009	3.65
2	32%	0.002	0.049	0.022	9.64
3	42%	0.002	0.043	0.019	8.60
4	56%	0.001	0.033	0.015	7.23
5	75%	0.007	0.086	0.038	16.57
6	100%	0.007	0.082	0.037	15.85

60399856 EEG CITY CORP FATHEAD GROWTH
 File: 6399856B Transform: NO TRANSFORMATION

ANOVA TABLE

SOURCE	DF	SS	MS	F
Between	5	0.014	0.003	0.877
Within (Error)	24	0.079	0.003	
Total	29	0.093		

Critical F value = 2.62 (0.05,5,24)
 Since $F < \text{Critical } F$ FAIL TO REJECT H_0 : All equal

60399856 EEG CITY CORP FATHEAD GROWTH
 File: 6399856B 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
1	CONTROL	0.525	0.525		
2	32%	0.505	0.505	0.552	
3	42%	0.496	0.496	0.790	
4	56%	0.458	0.458	1.833	
5	75%	0.518	0.518	0.193	
6	100%	0.515	0.515	0.271	

Dunnnett table value = 2.36 (1 Tailed Value, P=0.05, df=24,5)

60399856 EEG CITY CORP FATHEAD GROWTH
 File: 6399856B Transform: NO TRANSFORMATION

DUNNETT'S TEST - TABLE 2 OF 2

Ho:Control<Treatment

GROUP	IDENTIFICATION	NUM OF REPS	Minimum Sig Diff (IN ORIG. UNITS)	% of CONTROL	DIFFERENCE FROM CONTROL
1	CONTROL	5			
2	32%	5	0.085	16.3	0.020
3	42%	5	0.085	16.3	0.029
4	56%	5	0.085	16.3	0.066
5	75%	5	0.085	16.3	0.007
6	100%	5	0.085	16.3	0.010

Conc. ID	1	2	3	4	5	6
Conc. Tested	0	32	42	56	75	100
Response 1	.546	.544	.483	.480	.655	.414
Response 2	.494	.503	.542	.467	.421	.627
Response 3	.527	.448	.430	.445	.488	.467
Response 4	.524	.467	.507	.492	.500	.555
Response 5	.533	.562	.519	.408	.525	.512

*** Inhibition Concentration Percentage Estimate ***

Toxicant/Effluent: EEG CITY CORP

Test Start Date: 05/10/22 Test Ending Date: 05/17/22

Test Species: FATHEAD

Test Duration: 7 DAYS

DATA FILE:

Conc. ID	Number Replicates	Concentration	Response Means	Std. Dev.	Pooled Response Means
1	5	0.000	0.525	0.019	0.525
2	5	32.000	0.505	0.049	0.505
3	5	42.000	0.496	0.043	0.497
4	5	56.000	0.458	0.033	0.497
5	5	75.000	0.518	0.086	0.497
6	5	100.000	0.515	0.082	0.497

*** 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.



DC#_Title: ENV-FRM-LENE-0009_Sample Condition Upon Receipt (SCUR)

Revision: 2

Effective Date: 01/12/2022

Issued By: Lenexa

Client Name: EEG City Cap

Courier: FedEx UPS VIA Clay PEX ECI Pace Xroads Client Other

Tracking #: _____ Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other

Thermometer Used: T-111 Type of Ice: Wet Blue None

Cooler Temperature (°C): As-read 4.6 Corr. Factor -0.8 Corrected 3.8

Date and initials of person examining contents: 5/12/22 J

Temperature should be above freezing to 6°C

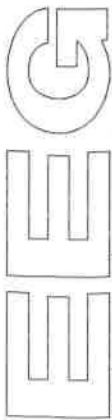
Chain of Custody present:	X Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Short Hold Time analyses (<72hr):	X Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient volume:	X Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct containers used:	X Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	X Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers intact:	X Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Sample labels match COC: Date / time / ID / analyses	X Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples contain multiple phases? Matrix:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers requiring pH preservation in compliance? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks:		
Lead acetate strip turns dark? (Record only)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Potassium iodide test strip turns blue/purple? (Preserve)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Samples from USDA Regulated Area: State:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____




Environmental Enterprise Group, Inc.
PROVIDING CUSTOMIZED SERVICES NATIONWIDE

246-0589169

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

Company Name:		Phone #:		City Corporation		Address:		Project Name or Number:		Purchase Order #:		Requested Analysis		Laboratory Control Number		Remarks (Please note special detection limits below.)							
Environmental Enterprise Group, Inc.		(479) 968-4989		P.O. Box 3186 Russellville, AR 72811-3186		P.O. Box 3186 Russellville, AR 72811-3186		Outfall 001066				Bio-Monitoring *		0522041		Legs							
City Corporation				24 Hr Comp.		Cont. Type		# of Containers		Method Preserved		Sample Matrix											
Sample I.D.		Date		Time		Grab		Plast		Glass		None		Water		Soil		Air		Sludge		Other	
ON 5-12-22		5-12-22		7:29		X		X		X		H2SO4		X									
OFF 5-13-22		5-13-22		7:25						HCL		None											
										NAOH													
										H2O													
										Ice													
										HCL													
										None													
										Water													
										Soil													
										Air													
										Sludge													
										Other													
Relinquished by: <i>Brooks TA</i>		Date: 5-13-22		Time: 8:44		Received by: <i>Luffey</i>		Date: 5/14/22		Time: 8:00													
Received by: <i>Soren</i>		Date: 5/13/22		Time: 0844		Relinquished by:		Date:		Time:													
Relinquished by: <i>Soren</i>		Date: 5/13/22		Time: 1200		Received by Laboratory:		Date:		Time:													
Comments: * MINNOWS ONLY																							

	DC#_Title: ENV-FRM-LENE-0009_Sample Condition Upon Receipt (SCUR)	
	Revision: 2	Effective Date: 01/12/2022

Issued By: Lenexa

Client Name: EEG City Corp Leg 3

Courier: FedEx UPS VIA Clay PEX ECI Pace Xroads Client Other

Tracking #: _____ Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other

Thermometer Used: T-111 Type of Ice: Wet Blue None

Cooler Temperature (°C): As-read 3.8 Corr. Factor -0.8 Corrected 3.0

Date and initials of person examining contents:
TS 5/14/22 GOC

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Sample labels match COC: Date / time / ID / analyses	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples contain multiple phases? Matrix:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers requiring pH preservation in compliance? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks:		
Lead acetate strip turns dark? (Record only)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Potassium iodide test strip turns blue/purple? (Preserve)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Samples from USDA Regulated Area: State:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____