



www.etcmemphis.com

# ENVIRONMENTAL TESTING & CONSULTING, INC.

2790 Whitten Road

Memphis, Tennessee 38133

(901) 213-2400

Fax (901) 213-2440

"A Laboratory Management Partner"

12/19/2014

Blytheville Sewer Department  
Mr. Thomas Jones  
P.O. Box 1784  
Blytheville, AR, 72316

Ref: Analytical Testing  
ETC Report Number: 14-337-0190  
Client Project Description: Bioassay - West WWTP

Dear Mr. Thomas Jones:

The results of this WET (Whole Effluent Toxicity) test are acceptable according to test review criteria. There were no significant deficiencies found in sample handling, test performance, or reporting. The test results are within the limits established by your NPDES permit and were entered into the permittee's records in the database.

Results: CV/NOEL = 99%  
Permit Limit: 99%

All statistical interpretations generated by CETIS - Comprehensive Environmental Toxicity Information System (v.1.8.6.1). CETIS created by Tidepool Scientific Software

Respectfully,

Connie Cook  
Lab Supervisor

*Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.*

**CETIS Test Evaluation Report**

**Report Date:** 18 Dec-14 16:51 ( 1 of 2)  
**Test Code:** CD 14-337-0190 | 20-8749-1439

<b>Facility:</b> BLYTHEVILLE SEWER West Plant <b>Sample Site:</b> <b>Sample Code:</b> 14-337-0190 <b>Sample Date:</b> 02 Dec-14 08:00 <b>Sample Age:</b> 32h (0.1 °C) <b>Project:</b> WET Biannual Compliance Test (2nd)	<b>Test Name:</b> Ceriodaphnia 7-d Survival and Reproduction Test <b>Organism:</b> Ceriodaphnia dubia (Water Flea) <b>Protocol:</b> EPA/821/R-02-013 (2002) <b>Start Date:</b> 03 Dec-14 15:30 <b>End Date:</b> 09 Dec-14 14:05 <b>Duration:</b> 5d 23h <b>Organism Age:</b> < 24
<b>Permitee:</b> Blytheville Sewer Dept. <b>Address:</b> P.O. Box 1784 Halfmoon Road Blytheville, AR 72315 <b>Contact:</b> Mr. James Yankee <b>Phone:</b> 870-763-4961, 870-763-8541(fax) <b>Email:</b>	<b>Laboratory:</b> Environmental Testing and Consulting, Inc. <b>Address:</b> 2790 Whitten Road Memphis, TN 38133 <b>Contact:</b> Connie Cook, Lab Supervisor <b>Phone:</b> 901-213-2454 <b>Email:</b> ccook@etcmemphis.com

Chronic Toxicity Evaluation					
Endpoint	Parameter	C-%	IWC	Pass/Fail	Method
Reproduction	NOEL/LOEL	99/>99	98.99	Pass	Dunnett Multiple Comparison Test

Test Acceptability Criteria				
Endpoint	Attribute	Test Stat	Limits	Pass/Fail
6d Survival Rate	Control CV	0	N/A - 0.4	Pass
6d Survival Rate	Control Resp	1	0.799 - N/A	Pass
Reproduction	Control CV	0.13	N/A - 0.4	Pass
Reproduction	Control Resp	18	15 - N/A	Pass

**CETIS Test Evaluation Report**

**Report Date:** 18 Dec-14 16:51 ( 2 of 2)  
**Test Code:** CD 14-337-0190 | 20-8749-1439

<b>6d Survival Rate Summary</b>											
C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Lab Water	10	1	1	1	1	1	0	0	0.0%	0.0%
31		10	1	1	1	1	1	0	0	0.0%	0.0%
42		10	1	1	1	1	1	0	0	0.0%	0.0%
56		10	1	1	1	1	1	0	0	0.0%	0.0%
74		10	1	1	1	1	1	0	0	0.0%	0.0%
99		10	1	1	1	1	1	0	0	0.0%	0.0%

<b>Reproduction Summary</b>											
C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Lab Water	10	18	17	19	15	23	0.74	2.3	13.0%	0.0%
31		10	18	17	19	14	23	1.1	3.4	19.0%	1.6%
42		10	18	17	19	11	22	1	3.3	18.0%	0.0%
56		10	18	17	19	13	22	0.94	3	17.0%	2.2%
74		10	19	18	20	15	23	0.85	2.7	14.0%	-4.9%
99		10	18	17	19	15	20	0.65	2	11.0%	2.2%

**CETIS Summary Report**

Report Date: 18 Dec-14 16:51 (p 1 of 2)  
 Test Code: CD 14-337-0190 | 20-8749-1439

Ceriodaphnia 7-d Survival and Reproduction Test				Environmental Testing and Consulting, Inc.			
Batch ID:	18-6234-3943	Test Type:	Reproduction-Survival (7d)	Analyst:	Ava Davis		
Start Date:	03 Dec-14 15:30	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Perrier Water		
Ending Date:	09 Dec-14 14:05	Species:	Ceriodaphnia dubia	Brine:	Not Applicable		
Duration:	5d 23h	Source:	In-House Culture	Age:	< 24		

Sample ID:	19-4162-5917	Code:	14-337-0190	Client:	Blytheville Sewer Dept.		
Sample Date:	02 Dec-14 08:00	Material:	POTW Effluent	Project:	WET Biannual Compliance Test (2nd)		
Receive Date:	03 Dec-14 14:00	Source:	BLYTHEVILLE SEWER West Plant (AR00)				
Sample Age:	32h (0.1 °C)	Station:					

Sample Renewals					
Renewal	Sample Code	Sample Date	Receive Date	Renewal Date	Temp °C
1	14-337-0190	04 Dec-14 08:25	05 Dec-14 12:09	05 Dec-14 00:00	0.1
2	14-337-0190	05 Dec-14 08:39	05 Dec-14 12:09	07 Dec-14 00:00	0.1

Comparison Summary							
Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
17-0767-9778	6d Survival Rate	99	>99	NA	NA	1.01	Fisher Exact/Bonferroni-Holm Test
13-8037-8370	Reproduction	99	>99	NA	15.9%	1.01	Dunnett Multiple Comparison Test

Test Acceptability						
Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
17-0767-9778	6d Survival Rate	Control CV	0	NL - 0.4	Yes	Passes Acceptability Criteria
13-8037-8370	Reproduction	Control CV	0.13	NL - 0.4	Yes	Passes Acceptability Criteria
17-0767-9778	6d Survival Rate	Control Resp	1	0.799 - NL	Yes	Passes Acceptability Criteria
13-8037-8370	Reproduction	Control Resp	18	15 - NL	Yes	Passes Acceptability Criteria

6d Survival Rate Summary											
C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Lab Water	10	1	1	1	1	1	0	0	0.0%	0.0%
31		10	1	1	1	1	1	0	0	0.0%	0.0%
42		10	1	1	1	1	1	0	0	0.0%	0.0%
56		10	1	1	1	1	1	0	0	0.0%	0.0%
74		10	1	1	1	1	1	0	0	0.0%	0.0%
99		10	1	1	1	1	1	0	0	0.0%	0.0%

Reproduction Summary											
C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Lab Water	10	18	17	20	15	23	0.74	2.3	13.0%	0.0%
31		10	18	15	20	14	23	1.1	3.4	19.0%	1.6%
42		10	18	16	21	11	22	1	3.3	18.0%	0.0%
56		10	18	16	20	13	22	0.94	3	17.0%	2.2%
74		10	19	17	21	15	23	0.85	2.7	14.0%	-4.9%
99		10	18	16	19	15	20	0.65	2	11.0%	2.2%

**CETIS Summary Report**

Report Date: 18 Dec-14 16:51 (p 2 of 2)  
 Test Code: CD 14-337-0190 | 20-8749-1439

Ceriodaphnia 7-d Survival and Reproduction Test											Environmental Testing and Consulting, Inc.
<b>6d Survival Rate Detail</b>											
C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Lab Water	1	1	1	1	1	1	1	1	1	1
31		1	1	1	1	1	1	1	1	1	1
42		1	1	1	1	1	1	1	1	1	1
56		1	1	1	1	1	1	1	1	1	1
74		1	1	1	1	1	1	1	1	1	1
99		1	1	1	1	1	1	1	1	1	1
<b>Reproduction Detail</b>											
C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Lab Water	17	23	19	16	20	17	15	18	17	20
31		22	16	15	22	15	19	18	14	15	23
42		11	21	17	19	19	21	19	18	22	15
56		13	19	15	18	20	14	20	22	20	17
74		22	17	17	15	22	18	20	17	20	23
99		15	15	15	19	18	19	18	20	20	19

**CETIS Measurement Report**

Report Date: 18 Dec-14 16:51 (p 1 of 8)  
Test Code: CD 14-337-0190 | 20-8749-1439

Ceriodaphnia 7-d Survival and Reproduction Test		Environmental Testing and Consulting, Inc.	
<b>Batch ID:</b> 18-6234-3943	<b>Test Type:</b> Reproduction-Survival (7d)	<b>Analyst:</b> Ava Davis	
<b>Start Date:</b> 03 Dec-14 15:30	<b>Protocol:</b> EPA/821/R-02-013 (2002)	<b>Diluent:</b> Perrier Water	
<b>Ending Date:</b> 09 Dec-14 14:05	<b>Species:</b> Ceriodaphnia dubia	<b>Brine:</b> Not Applicable	
<b>Duration:</b> 5d 23h	<b>Source:</b> In-House Culture	<b>Age:</b> < 24	
<b>Sample ID:</b> 19-4162-5917	<b>Code:</b> 14-337-0190	<b>Client:</b> Blytheville Sewer Dept.	
<b>Sample Date:</b> 02 Dec-14 08:00	<b>Material:</b> POTW Effluent	<b>Project:</b> WET Biannual Compliance Test (2nd)	
<b>Receive Date:</b> 03 Dec-14 14:00	<b>Source:</b> BLYTHEVILLE SEWER West Plant (AR00)		
<b>Sample Age:</b> 32h (0.1 °C)	<b>Station:</b>		

**CETIS Measurement Report**

Report Date: 18 Dec-14 16:51 (p 2 of 8)  
 Test Code: CD 14-337-0190 | 20-8749-1439

Ceriodaphnia 7-d Survival and Reproduction Test				Environmental Testing and Consulting, Inc.			
<b>Alkalinity (CaCO3)-mg/L</b>							
C-%	Control Type	Reading Time	Measure	QA	Diff-%	Inst ID	Analyst Notes
0	Lab Water	1	61				
0	Lab Water	2	60				
0	Lab Water	3	63				
0	Lab Water	4	61				
0	Lab Water	5	59				
0	Lab Water	6	63				
0	Lab Water	7	61				
<b>Total Residual Chlorine-mg/L</b>							
C-%	Control Type	Reading Time	Measure	QA	Diff-%	Inst ID	Analyst Notes
0	Lab Water	1	0				
99			0				
0	Lab Water	2	0				
99			0				
0	Lab Water	3	0				
99			0				
0	Lab Water	4	0				
99			0				
0	Lab Water	5	0				
99			0				
0	Lab Water	6	0				
99			0				
0	Lab Water	7	0				
99			0				
<b>Conductivity-µS/cm</b>							
C-%	Control Type	Reading Time	Measure	QA	Diff-%	Inst ID	Analyst Notes
0	Lab Water	1	164				
99			381				
0	Lab Water	2	164				
99			379				
0	Lab Water	3	169				
99			395				
0	Lab Water	4	171				
99			388				
0	Lab Water	5	172				
99			401				
0	Lab Water	6	164				
99			390				
0	Lab Water	7	169				
99			387				

**CETIS Measurement Report**

Report Date: 18 Dec-14 16:51 (p 3 of 8)  
 Test Code: CD 14-337-0190 | 20-8749-1439

Ceriodaphnia 7-d Survival and Reproduction Test				Environmental Testing and Consulting, Inc.			
Final Dissolved Oxygen-mg/L							
C-%	Control Type	Reading Time	Measure	QA	Diff-%	Inst ID	Analyst Notes
0	Lab Water	1	8				
31			7.9				
42			7.8				
56			7.8				
74			7.8				
99			7.8				
0	Lab Water	2	7.7				
31			7.9				
42			8				
56			8				
74			8				
99			8				
0	Lab Water	3	7.9				
31			7.8				
42			7.6				
56			7.6				
74			7.6				
99			7.9				
0	Lab Water	4	7.6				
31			7.5				
42			7.6				
56			7.7				
74			7.6				
99			7.8				
0	Lab Water	5	7.8				
31			8.3				
42			8.4				
56			8.3				
74			8.4				
99			8.3				
0	Lab Water	6	7.6				
31			7.8				
42			7.6				
56			7.5				
74			7.6				
99			7.6				



**CETIS Measurement Report**

Report Date: 18 Dec-14 16:51 (p 4 of 8)

Test Code: CD 14-337-0190 | 20-8749-1439

Ceriodaphnia 7-d Survival and Reproduction Test				Environmental Testing and Consulting, Inc.			
Initial Dissolved Oxygen-mg/L							
C-%	Control Type	Reading Time	Measure QA	Diff-%	Inst ID	Analyst	Notes
0	Lab Water	1	8.3				
31			8.7				
42			8.9				
56			9				
74			9.1				
99			9.1				
0	Lab Water	2	8.4				
31			8.7				
42			8.9				
56			9.1				
74			9.4				
99			9.6				
0	Lab Water	3	8.2				
31			8.7				
42			9				
56			9.2				
74			9.4				
99			9.7				
0	Lab Water	4	8.1				
31			8.4				
42			8.4				
56			8.5				
74			8.8				
99			8.9				
0	Lab Water	5	8.3				
31			8.6				
42			8.4				
56			8.4				
74			8.3				
99			8.6				
0	Lab Water	6	8.7				
31			8.7				
42			8.9				
56			9				
74			9.1				
99			9.3				
0	Lab Water	7	8.6				
31			8.5				
42			8.6				
56			8.9				
74			8.9				
99			8.6				
Hardness (CaCO3)-mg/L							
C-%	Control Type	Reading Time	Measure QA	Diff-%	Inst ID	Analyst	Notes
0	Lab Water	1	91				
0	Lab Water	2	89				
0	Lab Water	3	93				
0	Lab Water	4	91				
0	Lab Water	5	90				
0	Lab Water	6	93				
0	Lab Water	7	91	8			

**CETIS Measurement Report**

Report Date: 18 Dec-14 16:51 (p 5 of 8)

Test Code: CD 14-337-0190 | 20-8749-1439

Ceriodaphnia 7-d Survival and Reproduction Test				Environmental Testing and Consulting, Inc.			
Final pH-Units							
C-%	Control Type	Reading Time	Measure	QA	Diff-%	Inst ID	Analyst Notes
0	Lab Water	1	7.9				
31			7.7				
42			7.7				
56			7.8				
74			7.7				
99			7.6				
0	Lab Water	2	7.3				
31			7.4				
42			7.4				
56			7.4				
74			7.4				
99			7.4				
0	Lab Water	3	7.6				
31			7.4				
42			7.4				
56			7.3				
74			7.4				
99			7.4				
0	Lab Water	4	7.5				
31			7.4				
42			7.5				
56			7.5				
74			7.6				
99			7.6				
0	Lab Water	5	7.6				
31			7.7				
42			7.7				
56			7.7				
74			7.8				
99			7.8				
0	Lab Water	6	7.3				
31			7.5				
42			7.3				
56			7.6				
74			7.6				
99			7.3				

**CETIS Measurement Report**

Report Date: 18 Dec-14 16:51 (p 6 of 8)

Test Code: CD 14-337-0190 | 20-8749-1439

Ceriodaphnia 7-d Survival and Reproduction Test				Environmental Testing and Consulting, Inc.			
Initial pH-Units							
C-%	Control Type	Reading Time	Measure	QA	Diff-%	Inst ID	Analyst Notes
0	Lab Water	1	7.8				
31			7.7				
42			7.6				
56			7.6				
74			7.5				
99			7.5				
0	Lab Water	2	7.8				
31			7.6				
42			7.5				
56			7.5				
74			7.4				
99			7.3				
0	Lab Water	3	7.9				
31			7.7				
42			7.7				
56			7.6				
74			7.5				
99			7.5				
0	Lab Water	4	7.8				
31			7.9				
42			7.8				
56			7.8				
74			7.6				
99			7.4				
0	Lab Water	5	7.6				
31			7.6				
42			7.6				
56			7.9				
74			7.6				
99			7.5				
0	Lab Water	6	7.6				
31			7.5				
42			7.5				
56			7.4				
74			7.4				
99			7.3				
0	Lab Water	7	7.8				
31			7.8				
42			7.6				
56			7.6				
74			7.6				
99			7.7				

**CETIS Measurement Report**

Report Date: 18 Dec-14 16:51 (p 7 of 8)  
 Test Code: CD 14-337-0190 | 20-8749-1439

Ceriodaphnia 7-d Survival and Reproduction Test				Environmental Testing and Consulting, Inc.			
Final Temperature-°C							
C-%	Control Type	Reading Time	Measure	QA	Diff-%	Inst ID	Analyst Notes
0	Lab Water	1	23				
31			23				
42			23				
56			23				
74			23				
99			23				
0	Lab Water	2	23				
31			23				
42			23				
56			23				
74			23				
99			23				
0	Lab Water	3	23				
31			23				
42			23				
56			23				
74			23				
99			23				
0	Lab Water	4	23				
31			23				
42			23				
56			23				
74			23				
99			23				
0	Lab Water	5	23				
31			23				
42			23				
56			23				
74			23				
99			23				
0	Lab Water	6	23				
31			23				
42			23				
56			23				
74			23				
99			23				

**CETIS Measurement Report**

Report Date: 18 Dec-14 16:51 (p 8 of 8)  
 Test Code: CD 14-337-0190 | 20-8749-1439

Ceriodaphnia 7-d Survival and Reproduction Test				Environmental Testing and Consulting, Inc.			
Initial Temperature-°C							
C-%	Control Type	Reading Time	Measure	QA	Diff-%	Inst ID	Analyst Notes
0	Lab Water	1	23				
31			23				
42			23				
56			23				
74			23				
99			23				
0	Lab Water	2	23				
31			23				
42			23				
56			23				
74			23				
99			23				
0	Lab Water	3	23				
31			23				
42			23				
56			23				
74			23				
99			23				
0	Lab Water	4	23				
31			23				
42			23				
56			23				
74			23				
99			23				
0	Lab Water	5	23				
31			23				
42			23				
56			23				
74			23				
99			23				
0	Lab Water	6	23				
31			23				
42			23				
56			23				
74			23				
99			23				
0	Lab Water	7	23				
31			23				
42			23				
56			23				
74			23				
99			23				

**CETIS Test Evaluation Report**

**Report Date:** 19 Dec-14 09:05 ( 1 of 2)  
**Test Code:** FH 14-337-0190 | 14-8279-3674

<b>Facility:</b> BLYTHEVILLE SEWER West Plant <b>Sample Site:</b> <b>Sample Code:</b> 14-337-0190 <b>Sample Date:</b> 02 Dec-14 08:00 <b>Sample Age:</b> 32h (0.1 °C) <b>Project:</b> WET Biannual Compliance Test (2nd)	<b>Test Name:</b> Fathead Minnow 7-d Larval Survival and Growth Test <b>Organism:</b> Pimephales promelas (Fathead Minnow) <b>Protocol:</b> EPA/821/R-02-013 (2002) <b>Start Date:</b> 03 Dec-14 15:30 <b>End Date:</b> 10 Dec-14 13:35 <b>Duration:</b> 6d 22h <b>Organism Age:</b> < 24
<b>Permitee:</b> Blytheville Sewer Dept. <b>Address:</b> P.O. Box 1784 Halfmoon Road Blytheville, AR 72315 <b>Contact:</b> Mr. James Yankee <b>Phone:</b> 870-763-4961, 870-763-8541(fax) <b>Email:</b>	<b>Laboratory:</b> Environmental Testing and Consulting, Inc. <b>Address:</b> 2790 Whitten Road Memphis, TN 38133 <b>Contact:</b> Connie Cook, Lab Supervisor <b>Phone:</b> 901-213-2454 <b>Email:</b> ccook@etcmemphis.com

Chronic Toxicity Evaluation					
Endpoint	Parameter	C-%	IWC	Pass/Fail	Method
7d Survival Rate	NOEL/LOEL	100/>100	98.99	Pass	Dunnett Multiple Comparison Test
Mean Dry Weight-mg	NOEL/LOEL	100/>100	98.99	Pass	Dunnett Multiple Comparison Test

Test Acceptability Criteria					
Endpoint	Attribute	Test Stat	Limits	Pass/Fail	
7d Survival Rate	Control CV	0.14	N/A - 0.4	Pass	
7d Survival Rate	Control Resp	0.83	0.8 - N/A	Pass	
Mean Dry Weight-mg	Control CV	0.14	N/A - 0.4	Pass	
Mean Dry Weight-mg	Control Resp	0.5	0.25 - N/A	Pass	

**CETIS Test Evaluation Report**

**Report Date:** 19 Dec-14 09:05 ( 2 of 2)  
**Test Code:** FH 14-337-0190 | 14-8279-3674

<b>7d Survival Rate Summary</b>											
C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Lab Water	5	0.83	0.78	0.87	0.75	1	0.05	0.11	14.0%	0.0%
32		5	0.83	0.78	0.87	0.75	1	0.05	0.11	14.0%	0.0%
42		5	0.93	0.9	0.95	0.88	1	0.031	0.068	7.4%	-12.0%
56		5	0.78	0.71	0.84	0.63	1	0.073	0.16	21.0%	6.1%
75		5	0.88	0.82	0.93	0.63	1	0.068	0.15	17.0%	-6.1%
100		5	0.95	0.92	0.98	0.88	1	0.031	0.068	7.2%	-15.0%

<b>Mean Dry Weight-mg Summary</b>											
C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Lab Water	5	0.5	0.47	0.52	0.41	0.55	0.031	0.07	14.0%	0.0%
32		5	0.52	0.49	0.54	0.39	0.56	0.033	0.073	14.0%	-4.5%
42		5	0.47	0.44	0.5	0.39	0.56	0.03	0.067	14.0%	5.1%
56		5	0.56	0.53	0.59	0.45	0.66	0.035	0.077	14.0%	-13.0%
75		5	0.5	0.48	0.52	0.41	0.56	0.024	0.054	11.0%	-0.5%
100		5	0.47	0.45	0.49	0.36	0.54	0.029	0.065	14.0%	5.1%

**CETIS Summary Report**

Report Date: 19 Dec-14 09:06 (p 1 of 2)  
 Test Code: FH 14-337-0190 | 14-8279-3674

Fathead Minnow 7-d Larval Survival and Growth Test						Environmental Testing and Consulting, Inc.																		
Batch ID:	16-2268-2435	Test Type:	Growth-Survival (7d)	Analyst:	Ava Davis	Start Date:	03 Dec-14 15:30	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Perrier Water	Ending Date:	10 Dec-14 13:35	Species:	Pimephales promelas	Brine:	Not Applicable	Duration:	6d 22h	Source:	Aquatox, AR	Age:	< 24	
Sample ID:	19-4162-5917	Code:	14-337-0190	Client:	Blytheville Sewer Dept.	Sample Date:	02 Dec-14 08:00	Material:	POTW Effluent	Project:	WET Biannual Compliance Test (2nd)	Receive Date:	03 Dec-14 14:00	Source:	BLYTHEVILLE SEWER West Plant (AR00)	Sample Age:	32h (0.1 °C)	Station:						
Sample Renewals																								
Renewal	Sample Code	Sample Date	Receive Date	Renewal Date	Temp °C																			
1	14-337-0190	04 Dec-14 08:25	05 Dec-14 12:09	05 Dec-14 00:00	0.1																			
2	14-337-0190	05 Dec-14 08:35	05 Dec-14 12:09	07 Dec-14 00:00	0.1																			
Comparison Summary																								
Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method																	
20-3617-8688	7d Survival Rate	100	>100	NA	24.0%	1	Dunnett Multiple Comparison Test																	
09-7799-7685	Mean Dry Weight-mg	100	>100	NA	20.6%	1	Dunnett Multiple Comparison Test																	
Test Acceptability																								
Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision																		
20-3617-8688	7d Survival Rate	Control CV	0.14	NL - 0.4	Yes	Passes Acceptability Criteria																		
09-7799-7685	Mean Dry Weight-mg	Control CV	0.14	NL - 0.4	Yes	Passes Acceptability Criteria																		
20-3617-8688	7d Survival Rate	Control Resp	0.83	0.8 - NL	Yes	Passes Acceptability Criteria																		
09-7799-7685	Mean Dry Weight-mg	Control Resp	0.5	0.25 - NL	Yes	Passes Acceptability Criteria																		
7d Survival Rate Summary																								
C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect													
0	Lab Water	5	0.83	0.69	0.96	0.75	1	0.05	0.11	14.0%	0.0%													
32		5	0.83	0.69	0.96	0.75	1	0.05	0.11	14.0%	0.0%													
42		5	0.93	0.84	1	0.88	1	0.031	0.068	7.4%	-12.0%													
56		5	0.78	0.57	0.98	0.63	1	0.073	0.16	21.0%	6.1%													
75		5	0.88	0.68	1	0.63	1	0.068	0.15	17.0%	-6.1%													
100		5	0.95	0.86	1	0.88	1	0.031	0.068	7.2%	-15.0%													
Mean Dry Weight-mg Summary																								
C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect													
0	Lab Water	5	0.5	0.41	0.58	0.41	0.55	0.031	0.07	14.0%	0.0%													
32		5	0.52	0.43	0.61	0.39	0.56	0.033	0.073	14.0%	-4.5%													
42		5	0.47	0.39	0.55	0.39	0.56	0.03	0.067	14.0%	5.1%													
56		5	0.56	0.46	0.65	0.45	0.66	0.035	0.077	14.0%	-13.0%													
75		5	0.5	0.43	0.56	0.41	0.56	0.024	0.054	11.0%	-0.5%													
100		5	0.47	0.39	0.55	0.36	0.54	0.029	0.065	14.0%	5.1%													



**CETIS Summary Report**

Report Date: 19 Dec-14 09:06 (p 2 of 2)  
 Test Code: FH 14-337-0190 | 14-8279-3674

Fathead Minnow 7-d Larval Survival and Growth Test						Environmental Testing and Consulting, Inc.
<b>7d Survival Rate Detail</b>						
C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Lab Water	0.88	0.75	0.75	0.75	1
32		1	0.75	0.75	0.88	0.75
42		1	0.88	0.88	0.88	1
56		0.88	0.63	1	0.63	0.75
75		1	0.63	0.88	1	0.88
100		1	1	0.88	0.88	1
<b>Mean Dry Weight-mg Detail</b>						
C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Lab Water	0.42	0.55	0.54	0.55	0.41
32		0.55	0.39	0.56	0.55	0.54
42		0.43	0.49	0.49	0.39	0.56
56		0.66	0.45	0.59	0.54	0.55
75		0.41	0.5	0.56	0.51	0.5
100		0.49	0.54	0.47	0.49	0.36

**CETIS Measurement Report**

Report Date: 19 Dec-14 09:06 (p 1 of 8)

Test Code: FH 14-337-0190 | 14-8279-3674

Fathead Minnow 7-d Larval Survival and Growth Test		Environmental Testing and Consulting, Inc.	
<b>Batch ID:</b> 16-2268-2435	<b>Test Type:</b> Growth-Survival (7d)	<b>Analyst:</b> Ava Davis	
<b>Start Date:</b> 03 Dec-14 15:30	<b>Protocol:</b> EPA/821/R-02-013 (2002)	<b>Diluent:</b> Perrier Water	
<b>Ending Date:</b> 10 Dec-14 13:35	<b>Species:</b> Pimephales promelas	<b>Brine:</b> Not Applicable	
<b>Duration:</b> 6d 22h	<b>Source:</b> Aquatox, AR	<b>Age:</b> < 24	
<b>Sample ID:</b> 19-4162-5917	<b>Code:</b> 14-337-0190	<b>Client:</b> Blytheville Sewer Dept.	
<b>Sample Date:</b> 02 Dec-14 08:00	<b>Material:</b> POTW Effluent	<b>Project:</b> WET Biannual Compliance Test (2nd)	
<b>Receive Date:</b> 03 Dec-14 14:00	<b>Source:</b> BLYTHEVILLE SEWER West Plant (AR00)		
<b>Sample Age:</b> 32h (0.1 °C)	<b>Station:</b>		

**CETIS Measurement Report**

Report Date: 19 Dec-14 09:06 (p 2 of 8)  
 Test Code: FH 14-337-0190 | 14-8279-3674

Fathead Minnow 7-d Larval Survival and Growth Test								Environmental Testing and Consulting, Inc.	
<b>Alkalinity (CaCO3)-mg/L</b>									
C-%	Control Type	Reading Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes	
0	Lab Water	1	61						
0	Lab Water	2	60						
0	Lab Water	3	63						
0	Lab Water	4	61						
0	Lab Water	5	59						
0	Lab Water	6	63						
0	Lab Water	7	61						
<b>Total Residual Chlorine-mg/L</b>									
C-%	Control Type	Reading Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes	
0	Lab Water	1	0						
100			0						
0	Lab Water	2	0						
100			0						
0	Lab Water	3	0						
100			0						
0	Lab Water	4	0						
100			0						
0	Lab Water	5	0						
100			0						
0	Lab Water	6	0						
100			0						
0	Lab Water	7	0						
100			0						
<b>Conductivity-µS/cm</b>									
C-%	Control Type	Reading Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes	
0	Lab Water	1	164						
100			381						
0	Lab Water	2	164						
100			379						
0	Lab Water	3	169						
100			395						
0	Lab Water	4	171						
100			388						
0	Lab Water	5	172						
100			401						
0	Lab Water	6	164						
100			390						
0	Lab Water	7	169						
100			387						

**CETIS Measurement Report**

Report Date: 19 Dec-14 09:06 (p 3 of 8)  
 Test Code: FH 14-337-0190 | 14-8279-3674

Fathead Minnow 7-d Larval Survival and Growth Test				Environmental Testing and Consulting, Inc.		
Final Dissolved Oxygen-mg/L						
C-%	Control Type	Reading Time	Measure QA	Diff-%	Inst ID	Analyst Notes
0	Lab Water	1	7.6			
32			7.8			
42			7.9			
56			8			
75			7.9			
100			7.8			
0	Lab Water	2	7.7			
32			8			
42			8.2			
56			8.2			
75			8			
100			8.2			
0	Lab Water	3	7.9			
32			8			
42			7.8			
56			7.9			
75			7.9			
100			8			
0	Lab Water	4	7.8			
32			7.9			
42			7.7			
56			7.9			
75			7.8			
100			7.8			
0	Lab Water	5	8.2			
32			8.2			
42			8.1			
56			8.1			
75			8.3			
100			8.1			
0	Lab Water	6	8			
32			8			
42			8.5			
56			8.4			
75			8.4			
100			8.4			
0	Lab Water	7	8.3			
32			8.1			
42			8.2			
56			8.2			
75			8.2			
100			8.1			

**CETIS Measurement Report**

Report Date: 19 Dec-14 09:06 (p 4 of 8)  
 Test Code: FH 14-337-0190 | 14-8279-3674

Fathead Minnow 7-d Larval Survival and Growth Test						Environmental Testing and Consulting, Inc.		
Initial Dissolved Oxygen-mg/L								
C-%	Control Type	Reading Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	Lab Water	1	8.3					
32			8.7					
42			8.9					
56			9					
75			9.1					
100			9.1					
0	Lab Water	2	8.4					
32			8.7					
42			8.9					
56			9.1					
75			9.4					
100			9.6					
0	Lab Water	3	8.2					
32			8.7					
42			9					
56			9.2					
75			9.4					
100			9.7					
0	Lab Water	4	8.1					
32			8.4					
42			8.4					
56			8.5					
75			8.8					
100			8.9					
0	Lab Water	5	8.3					
32			8.6					
42			8.4					
56			8.4					
75			8.3					
100			8.6					
0	Lab Water	6	8.7					
32			8.7					
42			8.9					
56			9					
75			9.1					
100			9.3					
0	Lab Water	7	8.6					
32			8.5					
42			8.6					
56			8.9					
75			8.9					
100			8.6					
Hardness (CaCO3)-mg/L								
C-%	Control Type	Reading Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	Lab Water	1	91					
0	Lab Water	2	89					
0	Lab Water	3	93					
0	Lab Water	4	91					
0	Lab Water	5	90					
0	Lab Water	6	93					
0	Lab Water	7	91		20			

**CETIS Measurement Report**

Report Date: 19 Dec-14 09:06 (p 5 of 8)  
 Test Code: FH 14-337-0190 | 14-8279-3674

Fathead Minnow 7-d Larval Survival and Growth Test				Environmental Testing and Consulting, Inc.			
Final pH-Units							
C-%	Control Type	Reading Time	Measure QA	Diff-%	Inst ID	Analyst	Notes
0	Lab Water	1	7.5				
32			7.5				
42			7.5				
56			7.5				
75			7.5				
100			7.5				
0	Lab Water	2	7.7				
32			7.6				
42			7.6				
56			7.6				
75			7.5				
100			7.5				
0	Lab Water	3	7.3				
32			7.4				
42			7.4				
56			7.4				
75			7.7				
100			7.6				
0	Lab Water	4	7.6				
32			7.6				
42			7.9				
56			7.8				
75			7.8				
100			7.9				
0	Lab Water	5	7.3				
32			7.5				
42			7.5				
56			7.4				
75			7.7				
100			7.4				
0	Lab Water	6	7.8				
32			7.6				
42			7.6				
56			7.6				
75			7.6				
100			7.6				
0	Lab Water	7	7.9				
32			7.5				
42			7.6				
56			7.7				
75			7.6				
100			7.5				
21							

**CETIS Measurement Report**

Report Date: 19 Dec-14 09:06 (p 6 of 8)  
 Test Code: FH 14-337-0190 | 14-8279-3674

Fathead Minnow 7-d Larval Survival and Growth Test				Environmental Testing and Consulting, Inc.			
Initial pH-Units							
C-%	Control Type	Reading Time	Measure	QA	Diff-%	Inst ID	Analyst Notes
0	Lab Water	1	7.8				
32			7.7				
42			7.6				
56			7.6				
75			7.5				
100			7.5				
0	Lab Water	2	7.8				
32			7.6				
42			7.5				
56			7.5				
75			7.4				
100			7.3				
0	Lab Water	3	7.9				
32			7.7				
42			7.7				
56			7.6				
75			7.5				
100			7.5				
0	Lab Water	4	7.8				
32			7.9				
42			7.8				
56			7.8				
75			7.6				
100			7.4				
0	Lab Water	5	7.6				
32			7.6				
42			7.6				
56			7.9				
75			7.6				
100			7.5				
0	Lab Water	6	7.6				
32			7.5				
42			7.5				
56			7.4				
75			7.4				
100			7.3				
0	Lab Water	7	7.8				
32			7.8				
42			7.6				
56			7.6				
75			7.6				
100			7.7				

**CETIS Measurement Report**

Report Date: 19 Dec-14 09:06 (p 7 of 8)  
 Test Code: FH 14-337-0190 | 14-8279-3674

Fathead Minnow 7-d Larval Survival and Growth Test				Environmental Testing and Consulting, Inc.			
Final Temperature-°C							
C-%	Control Type	Reading Time	Measure	QA	Diff-%	Inst ID	Analyst Notes
0	Lab Water	1	23				
32			23				
42			23				
56			23				
75			23				
100			23				
0	Lab Water	2	23				
32			23				
42			23				
56			23				
75			23				
100			23				
0	Lab Water	3	23				
32			23				
42			23				
56			23				
75			23				
100			23				
0	Lab Water	4	23				
32			23				
42			23				
56			23				
75			23				
100			23				
0	Lab Water	5	23				
32			23				
42			23				
56			23				
75			23				
100			23				
0	Lab Water	6	23				
32			23				
42			23				
56			23				
75			23				
100			23				
0	Lab Water	7	23				
32			23				
42			23				
56			23				
75			23				
100			23				
				23			



**CETIS Measurement Report**

Report Date: 19 Dec-14 09:06 (p 8 of 8)  
 Test Code: FH 14-337-0190 | 14-8279-3674

Fathead Minnow 7-d Larval Survival and Growth Test				Environmental Testing and Consulting, Inc.			
Initial Temperature-°C							
C-%	Control Type	Reading Time	Measure	QA	Diff-%	Inst ID	Analyst Notes
0	Lab Water	1	23				
32			23				
42			23				
56			23				
75			23				
100			23				
0			Lab Water	2	23		
32	23						
42	23						
56	23						
75	23						
100	23						
0	Lab Water	3			23		
32			23				
42			23				
56			23				
75			23				
100			23				
0			Lab Water	4	23		
32	23						
42	23						
56	23						
75	23						
100	23						
0	Lab Water	5			23		
32			23				
42			23				
56			23				
75			23				
100			23				
0			Lab Water	6	23		
32	23						
42	23						
56	23						
75	23						
100	23						
0	Lab Water	7			23		
32			23				
42			23				
56			23				
75			23				
100			23				

Additional Toxicity Test Information

1. Methods/Instrumentation used in chemical analysis:
  - Dissolved oxygen: 4500-O G YSI MODEL - 58
  - pH: 4500-H + B JENCO METER 6072
  - Temperature: 2550 B JENCO METER 6072
  - Conductivity: 2510 B CORNING METER 441
  - Alkalinity: 2320 B
  - Hardness: 200.7
  - Total Residual Chlorine: 4500-Cl G - REPORTED VALUE OF "0" INDICATES RESULT BELOW DETECTION LIMIT OF 0.02 mg/L
  - EPA Acute/Chronic Manual Edition and Date: EPA-821-R-02-012
  - OCT 2002 (Fifth edition)
2. Laboratory
  - Temperature: Average - 25 C Range - 23 - 26
  - Light Cycle: 16 hours light/ 8 hours dark
  - Light intensity: 100 foot-candles, average
  - Control Water: Dilute mineral water made with 20 % Perrier in Nanopure
  - Dilution Water: Laboratory control water
  - Pretreatment: none
3. Method 1002.0
  - Test chambers: 30 mL disposable plastic beakers
  - Volume per chamber: 15 mL
  - Number of organisms per chamber: 1
  - Number of replicates: 10
  - Food: Laboratory culture of Selenastrum algae and YCT solution
4. Method 1000.0
  - Test chambers: 20 oz. Disposable plastic cups
  - Volume per chamber: 200 mL
  - Average number of organisms per chamber: 8
  - Number of replicates per concentration: 5
  - Food: Artemia brine shrimp hatched in laboratory
  - Acclimation of organisms: Organisms are allowed to reach test temperature. Dilution water is added at half-hour intervals until organisms are contained in a culture media that consists of 80% dilution water.
5. Indicate below any other relevant information that may aid in the evaluation of this report. Include any deviations from EPA methodology that were necessary for these tests as well as any sample manipulations which were performed, such as aeration, dechlorination with sodium thiosulfate, etc. and the justification for such manipulations or deviations. Attach additional pages as needed.
  - None



# ENVIRONMENTAL TESTING & CONSULTING, INC.

www.etcmemphis.com

2790 Whitten Road

Memphis, Tennessee 38133

(901) 213-2400

Fax (901) 213-2440

"A Laboratory Management Partner"

03316

Blytheville Sewer Department  
Mr. James Yankee  
P.O. Box 1784  
Blytheville, AR 72316

Project Bioassay - West WWTP  
Information :

Report Date : 12/19/2014

Report Number : 14-337-0190

## REPORT OF ANALYSIS

Received : 12/3/2014

Lab No : 89689

Matrix: Aqueous

Sample ID : Outfall 001

Sampled: 12/2/2014 0:00

Test	Results	Units	ML	DF	Date / Time Analyzed	By	Analytical Method
Alkalinity (as CaCO3)	61	mg/L	1	1	12/10/14 09:19	CJR	2320B-2011
Total Calcium	18.1	mg/L	0.100	1	12/09/14 18:13	BKN	EPA-200.7
Hardness as CaCO3(SM-2340B)	62.3	mg/L	0.100	1	12/09/14 18:13		EPA-200.7
Total Magnesium	4.16	mg/L	0.100	1	12/09/14 18:13	BKN	EPA-200.7

Lab No : 90242

Matrix: Aqueous

Sample ID : Outfall 001

Sampled: 12/4/2014 0:00

Test	Results	Units	ML	DF	Date / Time Analyzed	By	Analytical Method
Alkalinity (as CaCO3)	58	mg/L	1	1	12/10/14 09:19	CJR	2320B-2011
Total Calcium	17.9	mg/L	0.100	1	12/09/14 18:17	BKN	EPA-200.7
Hardness as CaCO3(SM-2340B)	60.8	mg/L	0.100	1	12/09/14 18:17		EPA-200.7
Total Magnesium	3.92	mg/L	0.100	1	12/09/14 18:17	BKN	EPA-200.7

Lab No : 90254

Matrix: Aqueous

Sample ID : Outfall 001

Sampled: 12/5/2014 0:00

Test	Results	Units	ML	DF	Date / Time Analyzed	By	Analytical Method
Alkalinity (as CaCO3)	57	mg/L	1	1	12/10/14 09:19	CJR	2320B-2011
Total Calcium	18.3	mg/L	0.100	1	12/09/14 18:21	BKN	EPA-200.7
Hardness as CaCO3(SM-2340B)	62.1	mg/L	0.100	1	12/09/14 18:21		EPA-200.7
Total Magnesium	3.98	mg/L	0.100	1	12/09/14 18:21	BKN	EPA-200.7

**Qualifiers/  
Definitions**

\* Outside QC limit  
ML Method Quantitation Limit

DF Dilution Factor



# ENVIRONMENTAL TESTING & CONSULTING, INC.

2790 Whitten Road Memphis, Tennessee 38133 (901) 213-2400 Fax (901) 213-2440



Blytheville Sewer Department  
Bioassay - West WWTP

14-337-0190  
03316  
12-03-2014  
15:19:12



<b>Company Name</b> Blytheville Sewer Department		<b>Customer Number</b> 03316		<b>Telephone</b> (870) 763-4961		<b>RUSH</b>	<b>ICE</b>
<b>Site Name</b> Kit SEM12 A - Bioassay - 11/30 - 12/01/2014			<b>Project Comment</b> West Plant			<b>FID Number</b>	
<b>Project</b> Blytheville Sewer - Bioassay			<b>Project Number</b>		<b>PO Number</b>		
<b>Project Manager / Contact</b> Mr. James Yankee				<b>E-mail</b> jlyankee@att.net			
Sample ID	Container Type	Collected Date / Time	# Cont	Preservative	Grab / Comp	Matrix	Analyses
Outfall 001 - Composite 1	Plastic - Pint	12/2/14 7:00	1	HNO3 - Nitric Acid	C	Aqueous	hardness
Outfall 001 - Composite 1	Plastic - Pint	12/2/14 7:01	1	NONE	C	Aqueous	Alkalinity
Outfall 001 - Composite 1	Plastic - Gallon	12/2/14 7:02	2	NONE	C	Aqueous	chronic CD/FH

<b>Sampled By</b>	<b>Method of Shipment</b>	<b>Blank / Cooler</b> Temperature 0.1	<b>Remarks</b>
Relinquished By (sign) <i>James Clark</i>	Date / Time 12-2-14 9:45	Received By (sign) <i>James Clark</i>	Date / Time 12/3/14 11:20
Relinquished By (sign)	Date / Time	Received By (sign)	Date / Time
Relinquished By (sign) <i>James Clark</i>	Date / Time 12/3/14 14:00	Received by Lab (sign) <i>James Clark</i>	Date / Time 12/3/14 14:00



# ENVIRONMENTAL TESTING & CONSULTING, INC. (2)

2790 Whitten Road Memphis, Tennessee 38133 (901) 213-2400 Fax (901) 213-2440

## CHAIN OF CUSTODY


 14-337-0190  
 03316  
 12-03-2014  
 Blytheville Sewer Department  
 Bioassay - West WWTP  
 15-19-12

<b>Company Name</b> Blytheville Sewer Department		<b>Customer Number</b> 03316		<b>Telephone</b> (870) 763-4961		<b>RUSH</b>	<b>ICE</b>
<b>Site Name</b> Kit SEM12 B - Bioassay : 12/02 - 12/03/2014			<b>Project Comment</b> West Plant			<b>FID Number</b>	
<b>Project</b> Blytheville Sewer - Bioassay		<b>Project Number</b>		<b>PO Number</b>			
<b>Project Manager / Contact</b> Mr. James Yankee				<b>E-mail</b> jlyankee@att.net			
Sample ID	Container Type	Collected Date / Time	# Cont	Preservative	Grab / Comp	Matrix	Analyses
Outfall 001 - Composite 2	Plastic - Pint	12-4-14 923	1	HNO3 - Nitric Acid	C	Aqueous	hardness
Outfall 001 - Composite 2	Plastic - Pint	12-4-14 924	1	NONE	C	Aqueous	Alkalinity
Outfall 001 - Composite 2	Plastic - Gallon	12-4-14 925	2	NONE	C	Aqueous	chronic CD/FH

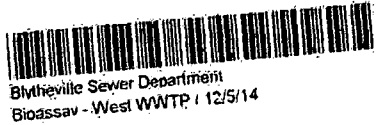
<b>Sampled By</b> James Clark	<b>Method of Shipment</b> ETC	<b>Blank / (Cooler)</b> Temperature 0.11	<b>Remarks</b> 475 NL
<b>Relinquished By (sign)</b> James Clark	<b>Date / Time</b> 12-4-14 130	<b>Received By (sign)</b> L. Ruel	<b>Date / Time</b> 12/5/14 1012
<b>Relinquished By (sign)</b>	<b>Date / Time</b>	<b>Received By (sign)</b>	<b>Date / Time</b>
<b>Relinquished By (sign)</b> L. Ruel	<b>Date / Time</b> 12/5/14 1209	<b>Received by Lab (sign)</b> J. Ruel	<b>Date / Time</b> 12/5/14 1209



# ENVIRONMENTAL TESTING & CONSULTING, INC.

2790 Whitten Road Memphis, Tennessee 38133 (901) 213-2400 Fax (901) 213-2440

## CHAIN OF CUSTODY



14-337-0190  
03316  
12-03-2014  
15:19:12

<b>Company Name</b> Blytheville Sewer Department		<b>Customer Number</b> 03316		<b>Telephone</b> (870) 763-4961		<b>RUSH</b>	<b>ICE</b>
<b>Site Name</b> Kit SEM12 C - Bioassay - 12/04 - 12/05/2014			<b>Project Comment</b> West Plant			<b>FID Number</b>	
<b>Project</b> Blytheville Sewer - Bioassay		<b>Project Number</b>		<b>PO Number</b>			
<b>Project Manager / Contact</b> Mr. James Yankee				<b>E-mail</b> jlyankee@att.net			
Sample ID	Container Type	Collected Date / Time	# Cont	Preservative	Grab / Comp	Matrix	Analyses
Outfall 001 - Composite 2	Plastic - Pint	12-5-14 8:37	1	HNO3 - Nitric Acid	C	Aqueous	hardness
Outfall 001 - Composite 2	Plastic - Pint	12-5-14 8:38	1	NONE	C	Aqueous	Alkalinity
Outfall 001 - Composite 2	Plastic - Gallon	12-5-14 8:39	3	NONE	C	Aqueous	chronic CD/FH

<b>Sampled By</b> JAMES CLARK	<b>Method of Shipment</b> ETC	<b>Blank / Cooler Temperature</b>	<b>Remarks</b>
<b>Relinquished By (sign)</b> James Clark	<b>Date / Time</b> 12-5-14 8:45	<b>Received By (sign)</b> W. Ruck	<b>Date / Time</b> 12/5/14
<b>Relinquished By (sign)</b>	<b>Date / Time</b>	<b>Received By (sign)</b>	<b>Date / Time</b>
<b>Relinquished By (sign)</b> W. Ruck	<b>Date / Time</b> 12/5/14	<b>Received by Lab (sign)</b> W. Ruck	<b>Date / Time</b> 12/5/14