


Sanitary Sewer Overflow Monthly Report

Facility Name: Marion, City of Permit Number: AR0021971 Reporting Period (Month/Year): MARCH 2016
 No Sanitary Sewer Overflows This Monitoring Period

Cause(s) of SSO		Summary Report Code Descriptions		
		SSO Impact	Action(s) Taken	Ultimate Discharge Location
CO-Construction	D-Debris	NEAH-No Evidence of Adverse Health or Environmental Impact		CR-Creek/Stream/River. (please specify)
E-Equipment Failure	G-Grease			
HC-Hydro Clean	LF-Line Failure/Break	OEHC-Observed or Evidence of Human Contact	EC-Environmental Cleanup	DI-Ditch
R-Rainfall	RG-Roots & Grease	EFK-Evidence of Fish Kill	HC-Hydro Cleaned	DR-Drop Inlet
RO-Roots	V-Vandalism		HR-Hand Rodded	GR-Ground Surface
			EN-Referred to Engineering	PA-Paved Area
			PN-Public Notification	CB-Contained in Building

Location	Manhole #	Start Date of SSO	End Date of SSO	Estimated Volume (in gallons)	Cause of SSO	Environmental Impact	Action (s) Taken to Address SSO	Ultimate Discharge Location
396 SHILOH		3/9/16	3/10/16	5000	10" RAIN	NEAH	EN	RIVER

Signature of Cognizant or Ranking Official:  Date: 4/21/16

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."



2790 Whitten Road, Memphis, TN 38133
Main 901.213.2400 ° Fax 901.213.2440
www.waypointanalytical.com

04/13/2016

City of Marion Water Department
Mr. Jim Shempert
PO Box 814
Marion, AR, 72364

Ref: Analytical Testing
ETC Report Number: 16-083-0190
Client Project Description: Bioassay

Dear Mr. Jim Shempert:

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: NOEL/CV > 1.33%
Permit Limit: 1.0%

All statistical interpretations generated by CETIS - Comprehensive Environmental Toxicity Information System (v.1.9.1.4). CETIS created by Tidepool Scientific Software

Respectfully,

A handwritten signature in cursive script that reads "Connie Cook".

Connie Cook
Lab Supervisor

CETIS Summary Report

Report Date: 13 Apr-16 12:44 (p 1 of 1)
 Test Code: DP 16-083-0190 | 09-8630-5563

Daphnia pulex 48-h Acute Survival Test				Waypoint Analytical Tennessee, Inc.			
Batch ID:	09-2757-2059	Test Type:	Survival (48h)	Analyst:	Connie Cook		
Start Date:	23 Mar-16 15:05	Protocol:	EPA/821/R-02-012 (2002)	Diluent:	Perrier Water		
Ending Date:	25 Mar-16 15:20	Species:	Daphnia pulex	Brine:	Not Applicable		
Duration:	48h	Source:	In-House Culture	Age:	< 24		
Sample ID:	07-6519-6561	Code:	16-083-0190	Client:	City of Marion Water Department		
Sample Date:	23 Mar-16 07:30	Material:	POTW Effluent	Project:	WET Quarterly Compliance Test (1Q)		
Receipt Date:	23 Mar-16 12:14	Source:	Marion Water Department (AR0021971)				
Sample Age:	8h (1.4 °C)	Station:					

Sample Renewals

Renewal	Sample Code	Sample Date	Receive Date	Renewal Date	Temp °C
1	16-083-0190	24 Mar-16 08:00	24 Mar-16 12:00	24 Mar-16 00:00	2.7

Multiple Comparison Summary

Analysis ID	Endpoint	Comparison Method	NOEL	LOEL	TOEL	TU	PMSD ✓
09-1744-8253	48h Survival Rate	Steel Many-One Rank Sum Test	1.3	> 1.3	n/a	76.92	n/a

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits		Overlap	Decision
				Lower	Upper		
09-1744-8253	48h Survival Rate	Control Resp	1	0.9	>>	Yes	Passes Acceptability Criteria

48h Survival Rate Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	L	5	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
0.45		5	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
0.56		5	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
0.75		5	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
1		5	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
1.3		5	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%

48h Survival Rate Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	L	1.0000	1.0000	1.0000	1.0000	1.0000
0.45		1.0000	1.0000	1.0000	1.0000	1.0000
0.56		1.0000	1.0000	1.0000	1.0000	1.0000
0.75		1.0000	1.0000	1.0000	1.0000	1.0000
1		1.0000	1.0000	1.0000	1.0000	1.0000
1.3		1.0000	1.0000	1.0000	1.0000	1.0000

48h Survival Rate Binomials

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	L	8/8	8/8	8/8	8/8	8/8
0.45		8/8	8/8	8/8	8/8	8/8
0.56		8/8	8/8	8/8	8/8	8/8
0.75		8/8	8/8	8/8	8/8	8/8
1		8/8	8/8	8/8	8/8	8/8
1.3		8/8	8/8	8/8	8/8	8/8

CETIS Measurement Report

Report Date: 13 Apr-16 12:44 (p 1 of 3)

Test Code: DP 16-083-0190 | 09-8630-5563

Daphnia pulex 48-h Acute Survival Test

Waypoint Analytical Tennessee, Inc.

Batch ID: 09-2757-2059	Test Type: Survival (48h)	Analyst: Connie Cook
Start Date: 23 Mar-16 15:05	Protocol: EPA/821/R-02-012 (2002)	Diluent: Perrier Water
Ending Date: 25 Mar-16 15:20	Species: Daphnia pulex	Brine: Not Applicable
Duration: 48h	Source: In-House Culture	Age: < 24

Sample ID: 07-6519-6561	Code: 16-083-0190	Client: City of Marion Water Department
Sample Date: 23 Mar-16 07:30	Material: POTW Effluent	Project: WET Quarterly Compliance Test (1Q)
Receipt Date: 23 Mar-16 12:14	Source: Marion Water Department (AR0021971)	
Sample Age: 8h (1.4 °C)	Station:	

CETIS Measurement Report

Report Date: 13 Apr-16 12:44 (p 2 of 3)
 Test Code: DP 16-083-0190 | 09-8630-5563

Daphnia pulex 48-h Acute Survival Test

Waypoint Analytical Tennessee, Inc.

Alkalinity (CaCO₃)-mg/L

Conc-%	Code	1	2
0	L	62	62
0.45			
0.56			
0.75			
1			
1.3			

Total Residual Chlorine-mg/L

Conc-%	Code	1	2
0	L	0	0
0.45			
0.56			
0.75			
1			
1.3		0	0

Conductivity-μS/cm

Conc-%	Code	1	2
0	L	170	174
0.45			
0.56			
0.75			
1			
1.3		462	459

Final Dissolved Oxygen-mg/L

Conc-%	Code	1	2
0	L	7.8	7.6
0.45		7.6	7.8
0.56		7.7	7.8
0.75		7.7	7.9
1		7.9	7.8
1.3		7.9	7.8

Initial Dissolved Oxygen-mg/L

Conc-%	Code	1	2
0	L	8.5	8.7
0.45		8.8	8.9
0.56		8.6	9
0.75		8.6	9
1		8.5	8.8
1.3		8.5	8.7

Hardness (CaCO₃)-mg/L

Conc-%	Code	1	2
0	L	94	92
0.45			
0.56			
0.75			
1			
1.3			

CETIS Measurement Report

Report Date: 13 Apr-16 12:44 (p 3 of 3)
Test Code: DP 16-083-0190 | 09-8630-5563

Daphnia pulex 48-h Acute Survival Test

Waypoint Analytical Tennessee, Inc.

Final pH-Units

Conc-%	Code	1	2
0	L	7.7	7.3
0.45		7.9	7.3
0.56		7.9	7.3
0.75		7.5	7.5
1		7.6	7.3
1.3		7.7	7.5

Initial pH-Units

Conc-%	Code	1	2
0	L	7.9	7.8
0.45		8.2	8.3
0.56		8.1	8.3
0.75		8.2	8.3
1		8.2	8.3
1.3		8.1	8.3

Final Temperature-°C

Conc-%	Code	1	2
0	L	23	23
0.45		23	23
0.56		23	23
0.75		23	23
1		23	23
1.3		23	23

Initial Temperature-°C

Conc-%	Code	1	2
0	L	23	23
0.45		23	23
0.56		23	23
0.75		23	23
1		23	23
1.3		23	23

CETIS Test Evaluation Report

Report Date: 13 Apr-16 12:52 (1 of 1)
 Test Code: FH 16-083-0190 | 01-3150-6454

Facility: Marion Water Department
 Sample Site:
 Sample Code: 16-083-0190
 Sample Date: 23 Mar-16 07:30
 Sample Age: 7h (1.4 °C)
 Project: WET Quarterly Compliance Test (1Q)

Test Name: Fathead Minnow 48-h Acute Survival Test
 Organism: Pimephales promelas (Fathead Minnow)
 Protocol: EPA/821/R-02-012 (2002)
 Start Date: 23 Mar-16 14:35
 End Date: 25 Mar-16 15:00
 Duration: 48h Organism Age: < 24

Permittee: City of Marion Water Department
 Address: PO Box 814
 Marion, AR 72364
 Contact: Mr. Jim Shempert
 Phone: 870-739-5413, 870-739-5415(fax)
 Email: jshempert.waterdept@yahoo.com

Laboratory: Waypoint Analytical Tennessee , Inc.
 Address: 2790 Whitten Road
 Memphis, TN 38133
 Contact: Ms. Connie Cook, Lab Supervisor
 Phone: 901-213-2454, 901-213-2440(fax)
 Email: ccook@etcmemphis

Comments:

Acute Toxicity Evaluation

Endpoint	Criteria	Conc-%	IWC	Decision	Method
48h Survival Rate	NOEL/LOEL	1.3/>1.3	1	Passes IWC	Steel Many-One Rank Sum Test

Test Acceptability Criteria

Endpoint	Attribute	Test Stat	TAC Limits			Decision
			Lower	Upper	Overlap	
48h Survival Rate	Control Resp	1	0.9	>>	Yes	Passes Acceptability Criteria

48h Survival Rate Data Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	L	5	1	1	1	1	1	0	0	0.00%	0.0%
0.45		5	1	1	1	1	1	0	0	0.00%	0.0%
0.56		5	1	1	1	1	1	0	0	0.00%	0.0%
0.75		5	1	1	1	1	1	0	0	0.00%	0.0%
1		5	1	1	1	1	1	0	0	0.00%	0.0%
1.3		5	1	1	1	1	1	0	0	0.00%	0.0%

CETIS Summary Report

Report Date: 13 Apr-16 12:52 (p 1 of 1)
 Test Code: FH 16-083-0190 | 01-3150-6454

Fathead Minnow 48-h Acute Survival Test

Waypoint Analytical Tennessee, Inc.

Batch ID: 07-7199-0480	Test Type: Survival (48h)	Analyst: Connie Cook
Start Date: 23 Mar-16 14:35	Protocol: EPA/821/R-02-012 (2002)	Diluent: Perrier Water
Ending Date: 25 Mar-16 15:00	Species: Pimephales promelas	Brine: Not Applicable
Duration: 48h	Source: Aquatox, AR	Age: < 24
Sample ID: 07-6519-6561	Code: 16-083-0190	Client: City of Marion Water Department
Sample Date: 23 Mar-16 07:30	Material: POTW Effluent	Project: WET Quarterly Compliance Test (1Q)
Receipt Date: 23 Mar-16 12:14	Source: Marion Water Department (AR0021971)	
Sample Age: 7h (1.4 °C)	Station:	

Sample Renewals

Renewal	Sample Code	Sample Date	Receive Date	Renewal Date	Temp °C
1	16-083-0190	24 Mar-16 08:00	24 Mar-16 12:00	24 Mar-16 00:00	2.7

Multiple Comparison Summary

Analysis ID	Endpoint	Comparison Method	NOEL	LOEL	TOEL	TU	PMSD ✓
11-3103-1147	48h Survival Rate	Steel Many-One Rank Sum Test	1.3	> 1.3	n/a	76.92	n/a

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits		Overlap	Decision
				Lower	Upper		
11-3103-1147	48h Survival Rate	Control Resp	1	0.9	>>	Yes	Passes Acceptability Criteria

48h Survival Rate Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	L	5	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
0.45		5	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
0.56		5	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
0.75		5	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
1		5	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
1.3		5	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%

48h Survival Rate Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	L	1.0000	1.0000	1.0000	1.0000	1.0000
0.45		1.0000	1.0000	1.0000	1.0000	1.0000
0.56		1.0000	1.0000	1.0000	1.0000	1.0000
0.75		1.0000	1.0000	1.0000	1.0000	1.0000
1		1.0000	1.0000	1.0000	1.0000	1.0000
1.3		1.0000	1.0000	1.0000	1.0000	1.0000

48h Survival Rate Binomials

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	L	8/8	8/8	8/8	8/8	8/8
0.45		8/8	8/8	8/8	8/8	8/8
0.56		8/8	8/8	8/8	8/8	8/8
0.75		8/8	8/8	8/8	8/8	8/8
1		8/8	8/8	8/8	8/8	8/8
1.3		8/8	8/8	8/8	8/8	8/8

CETIS Measurement Report

Report Date: 13 Apr-16 12:52 (p 1 of 3)
Test Code: FH 16-083-0190 | 01-3150-6454

Fathead Minnow 48-h Acute Survival Test

Waypoint Analytical Tennessee, Inc.

Batch ID: 07-7199-0480	Test Type: Survival (48h)	Analyst: Connie Cook
Start Date: 23 Mar-16 14:35	Protocol: EPA/821/R-02-012 (2002)	Diluent: Perrier Water
Ending Date: 25 Mar-16 15:00	Species: Pimephales promelas	Brine: Not Applicable
Duration: 48h	Source: Aquatox, AR	Age: < 24

Sample ID: 07-6519-6561	Code: 16-083-0190	Client: City of Marion Water Department
Sample Date: 23 Mar-16 07:30	Material: POTW Effluent	Project: WET Quarterly Compliance Test (1Q)
Receipt Date: 23 Mar-16 12:14	Source: Marion Water Department (AR0021971)	
Sample Age: 7h (1.4 °C)	Station:	

CETIS Measurement Report

Report Date: 13 Apr-16 12:52 (p 2 of 3)
 Test Code: FH 16-083-0190 | 01-3150-6454

Fathead Minnow 48-h Acute Survival Test

Waypoint Analytical Tennessee, Inc.

Alkalinity (CaCO3)-mg/L

Conc-%	Code	1	2
0	L	62	62
0.45			
0.56			
0.75			
1			
1.3			

Total Residual Chlorine-mg/L

Conc-%	Code	1	2
0	L	0	0
0.45			
0.56			
0.75			
1			
1.3		0	0

Conductivity-µS/cm

Conc-%	Code	1	2
0	L	170	174
0.45			
0.56			
0.75			
1			
1.3		462	459

Final Dissolved Oxygen-mg/L

Conc-%	Code	1	2
0	L	7.5	7.3
0.45		7.9	7.5
0.56		7.9	7.5
0.75		7.6	7.5
1		7.6	7.5
1.3		7.7	7.6

Initial Dissolved Oxygen-mg/L

Conc-%	Code	1	2
0	L	8.5	8.7
0.45		8.8	8.9
0.56		8.6	9
0.75		8.6	9
1		8.5	8.8
1.3		8.5	8.7

Hardness (CaCO3)-mg/L

Conc-%	Code	1	2
0	L	94	92
0.45			
0.56			
0.75			
1			
1.3			

CETIS Measurement Report

Report Date: 13 Apr-16 12:52 (p 3 of 3)
Test Code: FH 16-083-0190 | 01-3150-6454

Fathead Minnow 48-h Acute Survival Test

Waypoint Analytical Tennessee, Inc.

Final pH-Units

Conc-%	Code	1	2
0	L	7.6	7.5
0.45		7.3	7.5
0.56		7.3	7.5
0.75		7.5	7.3
1		7.3	7.6
1.3		7.3	7.6

Initial pH-Units

Conc-%	Code	1	2
0	L	7.9	7.8
0.45		8.2	8.3
0.56		8.1	8.3
0.75		8.2	8.3
1		8.2	8.3
1.3		8.1	8.3

Final Temperature-°C

Conc-%	Code	1	2
0	L	23	23
0.45		23	23
0.56		23	23
0.75		23	23
1		23	23
1.3		23	23

Initial Temperature-°C

Conc-%	Code	1	2
0	L	23	23
0.45		23	23
0.56		23	23
0.75		23	23
1		23	23
1.3		23	23

Additional Toxicity Test Information

1. Methods/Instrumentation used in chemical analysis:
 - Dissolved oxygen: 4500-O G YSI MODEL - 50B
 - pH: 4500-H + B METTLER TOLEDO FIVE EASY
 - Temperature: 2550 B METTLER TOLEDO FIVE EASY
 - 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 2002.0
 - Test chambers: 30 mL disposable plastic beakers
 - Volume per chamber: 15 mL
 - Number of organisms per chamber: 8
 - Number of replicates: 5
 - Food: Organisms are not fed during test.
4. Method 2000.0
 - 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 during holding, prior to test.
 - 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

02608

City of Marion Water Department
 Mr. Jim Shempert
 PO Box 814
 Marion, AR 72364

Project Bioassay
 Information :

Report Date : 4/13/2016

Report Number : 16-083-0190

REPORT OF ANALYSIS

Received : 3/23/2016

Lab No : 91966

Matrix: Aqueous

Sample ID : Outfall 001 - Composite

Sampled: 3/23/2016 7:30

Test	Results	Units	ML	DF	Date / Time Analyzed	By	Analytical Method
Alkalinity (as CaCO3)	113	mg/L	1	1	04/06/16 09:45	CJR	2320B-2011
Total Calcium	17.3	mg/L	0.100	1	03/29/16 22:21	CCR	EPA-200.7
Hardness as CaCO3(SM-2340B)	63.2	mg/L	0.100	1	03/29/16 22:21		EPA-200.7
Total Magnesium	4.86	mg/L	0.100	1	03/29/16 22:21	CCR	EPA-200.7

Lab No : 92238

Matrix: Aqueous

Sample ID : Outfall 001 - Composite

Sampled: 3/24/2016 8:00

Test	Results	Units	ML	DF	Date / Time Analyzed	By	Analytical Method
Alkalinity (as CaCO3)	122	mg/L	1	1	04/06/16 09:45	CJR	2320B-2011
Total Calcium	17.1	mg/L	0.100	1	03/29/16 22:26	CCR	EPA-200.7
Hardness as CaCO3(SM-2340B)	62.5	mg/L	0.100	1	03/29/16 22:26		EPA-200.7
Total Magnesium	4.81	mg/L	0.100	1	03/29/16 22:26	CCR	EPA-200.7

**Qualifiers/
Definitions**

DF

Dilution Factor

ML

Method Quantitation Limit

CHAIN-OF-CUSTODY

3700 Whitten Road, Memphis, TN 38133

16-083-0190
02608
03-23-2016
15:44:11
City of Marion Water Department
Bioassay

Kit ID:	0000061996
Initiated By:	Connie Cook
Project Comment	Bioassay

Company Name	Company Number	Client Project Manager/Contact	Purchase Order Number
City of Marion Water Department	02608	City of Marion Water Department	
Site Name	Project Number	<input type="checkbox"/> RUSH - Additional charges apply <input type="checkbox"/> Special Detection Limits(s) Date Results Needed	Method of Shipment <input type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Courier <input type="checkbox"/> Client Drop Off Other
Quarterly Bioassay Kit 1B 03/22-23/16			
LIMS Project ID	Project Manager Phone #	Project Manager Email	Site/Facility ID #
Marion - Bioassay	(870) 739-5413		

Date	Time	Sample ID	Matrix	Grab/Comp	# of Cont	Container Type	Preservation	Analyses
3-23	7:30 AM	Outfall 001 - Composite 2	Aqueous	C	1	Plastic - Pint	HNO3 - Nitric Acid	hardness
3-23	7:30 PM	Outfall 001 - Composite 2	Aqueous	C	1	Plastic - Pint	NONE	Alkalinity
3-23	7:30 AM	Outfall 001 - Composite 2	Aqueous	C	1	Plastic - Quart	NONE	48 hr bioassay - renewal

For Laboratory Use Only			Sampled by (Name - Print)	Client Remarks/Comments			
Ice	Custody Seals	Lab Comments	<i>Bolder</i>				
<i>Y/N</i>	Y/N		Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time	
			<i>Danny Bolder</i>	<i>3/23/16</i>	<i>W. Reek</i>	<i>3/23/16</i>	<i>1130</i>
			Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time	
Blank/Cooler Temp			Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time	
<i>11.4 C</i>	<i>OR</i>		<i>W. Reek</i>	<i>3/23/16</i>	<i>W. Reek</i>	<i>3-23-16</i>	<i>1214</i>

2

Kit ID: 0000061995
Initiated By: Connie Cook
Project Comment Bioassay

CHAIN-OF-CUSTODY



16-083-0190
 02608
 City of Marion Water Department
 Bioassay / 3/23/16
 03-23-2016
 15:44:11

Company Name City of Marion Water Department	Company Number 02608	Client Project Manager/Contact City of Marion Water Department	Purchase Order
Site Name Quarterly Bioassay Kit 1A 03/21-22/16	Project Number	<input type="checkbox"/> RUSH - Additional charges apply <input type="checkbox"/> Special Detection Limits(s) Date Results Needed	Method of Shipment <input type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Courier <input type="checkbox"/> Client Drop Off Other
LIMS Project ID Marion - Bioassay	Project Manager Phone # (870) 739-5413	Project Manager Email	Site/Facility ID #

Date	Time	Sample ID	Matrix	Grab/Comp	# of Cont	Container Type	Preservation	Analyses
3/24	8:00 AM	Outfall 001 - Composite 1	Aqueous	C	1	Plastic - Pint	HNO3 - Nitric Acid	hardness
3/24	8:1 AM	Outfall 001 - Composite 1	Aqueous	C	1	Plastic - Pint	NONE	Alkalinity
3/24	8: AM	Outfall 001 - Composite 1	Aqueous	C	1	Plastic - Quart	NONE	48-hr bioassay - renewal

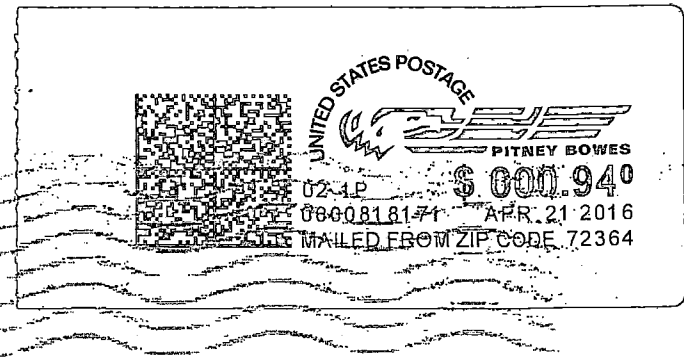
For Laboratory Use Only			Sampled by (Name - Print)	Client Remarks/Comments			
Ice	Custody Seals	Lab Comments	<i>D. Baker</i>				
Y/N	Y/N		Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time	
<i>Y/N</i>			<i>D. Baker</i>	<i>3/24/16</i>	<i>W. Cook</i>	<i>11:00</i>	
			Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time	
Blank/Cooler Temp			Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time	
<i>27C 4T 7</i>			<i>W. Cook</i>	<i>3/24/16</i>	<i>W. Cook</i>	<i>12:00</i>	

MARION WATTS
31 MILITARY RD
MARION, AR

72364



FRI 21 APR 2016



ADEQ
ENFORCEMENT DIVISION
5301 NORTSHORE DRIVE
NORTH LITTLE ROCK, AR
72118-5317