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GENE COX

January 11, 2013

Arkansas Department of
Environmental Quality
NPDES Enforcement Section
5301 N. Shore DR.
North Little Rock, Arkansas 72118

RE: NPDES PERMIT NO. AR0021580
Biomonitoring JULY 01, 2012 thru DECEMBER 31, 2012

Enclosed is the Discharge Monitoring Report for the City of Osceola for the period of **JULY 01, 2012 thru December 31, 2012** on Biomonitoring test as required by our permit. The tests show that we passed all tests.

All tests were performed by Environmental Testing and Consulting, Inc., 2790 Whitten Rd. Memphis, TN. 38133. We are enclosing all summary forms and analysis sheets as required by our permit.

Thanks,

James N. Carlock
WWTP SUPT.
Enclosure

303 West Hale Avenue - P.O. Box 443 - Osceola, AR 72370
(870) 563-5245

COMBINING INDUSTRY WITH AGRICULTURE FOR PROGRESS
AN EQUAL OPPORTUNITY EMPLOYER



ENVIRONMENTAL TESTING & CONSULTING, INC.

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

November 15, 2012

Mr. James Carlock,
Osceola Water Department
P.O. Box 443
Osceola, AR 72370

Dear Permittee,

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 > 0.17% Permit Limit: 0.13%

Report #: 12-297-0191 OSCEOLA WATER AR0021580

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

Enclosure(s)

CETIS Summary Report

Report Date: 15 Nov-12 13:57 (p 1 of 1)
 Test Code: DP 12-297-0191 | 05-9408-6704

Daphnia pulex 48-h Acute Survival Test Environmental Testing and Consulting, Inc.

Batch ID: 05-9988-5814	Test Type: Survival (48h)	Analyst: Connie Cook
Start Date: 23 Oct-12 14:50	Protocol: EPA/821/R-02-012 (2002)	Diluent: Receiving Water
Ending Date: 25 Oct-12 14:35	Species: Daphnia pulex	Brine: Not Applicable
Duration: 48h	Source: In-House Culture	Age: < 24

Sample ID: 12-5559-3434	Code: 12-297-0191	Client: Osceola Water Department
Sample Date: 22 Oct-12 07:00	Material: POTW Effluent	Project: WET Biannual Compliance Test (2nd)
Receive Date: 23 Oct-12 13:30	Source: OSCEOLA WATER (AR0021580)	
Sample Age: 32h (1 °C)	Station:	

Sample Note: Receiving Stream collected 10/23/12 8:00

Renewal	Sample Code	Sample Date	Receive Date	Renewal Date	Temp °C
1	12-297-0191	23 Oct-12 07:00	23 Oct-12 13:30	24 Oct-12 00:00	1

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
16-5756-9591	48h Survival Rate	0.17	>0.17	NA	NA	588.2	Steel Many-One Rank Sum Test

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
16-5756-9591	48h Survival Rate	Control Resp	1	0.9 - NL	Yes	Passes Acceptability Criteria

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Receiving Water	5	1	1	1	1	1	0	0	0.0%	0.0%
0	Lab Water	5	1	1	1	1	1	0	0	0.0%	0.0%
0.05		5	1	1	1	1	1	0	0	0.0%	0.0%
0.07		5	1	1	1	1	1	0	0	0.0%	0.0%
0.1		5	1	1	1	1	1	0	0	0.0%	0.0%
0.13		5	1	1	1	1	1	0	0	0.0%	0.0%
0.17		5	1	1	1	1	1	0	0	0.0%	0.0%

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Receiving Water	1	1	1	1	1
0	Lab Water	1	1	1	1	1
0.05		1	1	1	1	1
0.07		1	1	1	1	1
0.1		1	1	1	1	1
0.13		1	1	1	1	1
0.17		1	1	1	1	1

CETIS Measurement Report

Report Date: 15 Nov-12 13:57 (p 1 of 4)
Test Code: DP 12-297-0191 | 05-9408-6704

Daphnia pulex 48-h Acute Survival Test

Environmental Testing and Consulting, Inc.

Sample ID: 12-5559-3434	Code: 12-297-0191	Client: Osceola Water Department
Sample Date: 22 Oct-12 07:00	Material: POTW Effluent	Project: WET Biannual Compliance Test (2nd)
Receive Date: 23 Oct-12 13:30	Source: OSCEOLA WATER (AR0021580)	
Sample Age: 32h (1 °C)	Station:	

Sample Note: Receiving Stream collected 10/23/12 8:00

CETIS Measurement Report

Report Date: 15 Nov-12 13:57 (p 2 of 4)
 Test Code: DP 12-297-0191 | 05-9408-6704

Daphnia pulex 48-h Acute Survival Test Environmental Testing and Consulting, Inc.

Alkalinity (CaCO3)-mg/L

C-%	Control Type	Reading Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	Lab Water	1	63					
0	Lab Water	2	60					

Total Residual Chlorine-mg/L

C-%	Control Type	Reading Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	Lab Water	1	0					
0	Receiving Wat		0					
0	Lab Water	2	0					
0	Receiving Wat		0					

Conductivity-µS/cm

C-%	Control Type	Reading Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	Lab Water	1	182					
0	Receiving Wat		491					
0	Lab Water	2	185					
0	Receiving Wat		489					

Final Dissolved Oxygen-mg/L

C-%	Control Type	Reading Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	Lab Water	1	8.4					
0	Receiving Wat		8.4					
0.05			8.3					
0.07			8.3					
0.1			8.3					
0.13			8.4					
0.17			8.4					
0	Lab Water	2	8.6					
0	Receiving Wat		8.7					
0.05			8.6					
0.07			8.6					
0.1			8.4					
0.13			8.4					
0.17			8.4					

Initial Dissolved Oxygen-mg/L

C-%	Control Type	Reading Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	Lab Water	1	9.5					
0	Receiving Wat		8.7					
0.05			8.9					
0.07			9.2					
0.1			9.2					
0.13			9.3					
0.17			9.3					
0	Lab Water	2	8.9					
0	Receiving Wat		9.2					
0.05			9.2					
0.07			9					
0.1			9.3					
0.13			9.2					
0.17			9.2					

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					

CETIS Measurement Report

Report Date: 15 Nov-12 13:57 (p 3 of 4)
 Test Code: DP 12-297-0191 | 05-9408-6704

Daphnia pulex 48-h Acute Survival 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	8.4				
0	Receiving Wat		8.3				
0.05			8.3				
0.07			8.2				
0.1			8.1				
0.13			8.1				
0.17			8.1				
0	Lab Water	2	8.2				
0	Receiving Wat		8.6				
0.05			8.5				
0.07			8.5				
0.1			8.3				
0.13			8.2				
0.17			8.2				

Initial pH-Units							
C-%	Control Type	Reading Time	Measure	QA	Diff-%	Inst ID	Analyst Notes
0	Lab Water	1	8.2				
0	Receiving Wat		8.2				
0.05			8.2				
0.07			8.2				
0.1			8.2				
0.13			8.2				
0.17			8.2				
0	Lab Water	2	8.3				
0	Receiving Wat		8.2				
0.05			8.2				
0.07			8.2				
0.1			8.1				
0.13			8.1				
0.17			8.1				

Final Temperature-°C							
C-%	Control Type	Reading Time	Measure	QA	Diff-%	Inst ID	Analyst Notes
0	Lab Water	1	23				
0	Receiving Wat		23				
0.05			23				
0.07			23				
0.1			23				
0.13			23				
0.17			23				
0	Lab Water	2	23				
0	Receiving Wat		23				
0.05			23				
0.07			23				
0.1			23				
0.13			23				
0.17			23				

CETIS Measurement Report

Report Date: 15 Nov-12 13:57 (p 4 of 4)
 Test Code: DP 12-297-0191 | 05-9408-6704

Daphnia pulex 48-h Acute Survival 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				
0	Receiving Wat		23				
0.05			23				
0.07			24				
0.1			24				
0.13			24				
0.17			24				
0	Lab Water	2	23				
0	Receiving Wat		24				
0.05			24				
0.07			24				
0.1			24				
0.13			24				
0.17			24				

CETIS Summary Report

Report Date: 15 Nov-12 13:57 (p 1 of 1)
 Test Code: FH 12-297-0191 | 09-7644-3416

Fathead Minnow 48-h Acute Survival Test Environmental Testing and Consulting, Inc.

Batch ID: 10-2813-3921	Test Type: Survival (48h)	Analyst: Ava Davis
Start Date: 23 Oct-12 14:30	Protocol: EPA/821/R-02-012 (2002)	Diluent: Receiving Water
Ending Date: 25 Oct-12 15:00	Species: Pimephales promelas	Brine: Not Applicable
Duration: 49h	Source: Aquatox, AR	Age: < 24

Sample ID: 12-5559-3434	Code: 12-297-0191	Client: Osceola Water Department
Sample Date: 22 Oct-12 07:00	Material: POTW Effluent	Project: WET Biannual Compliance Test (2nd)
Receive Date: 23 Oct-12 13:30	Source: OSCEOLA WATER (AR0021580)	
Sample Age: 32h (1 °C)	Station:	

Sample Note: Receiving Stream collected 10/23/12 8:00

Sample Renewals					
Renewal	Sample Code	Sample Date	Receive Date	Renewal Date	Temp °C
1	12-297-0191	23 Oct-12 07:00	24 Oct-12 13:30	25 Oct-12 00:00	1

Comparison Summary							
Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
10-4520-8863	48h Survival Rate	0.17	>0.17	NA	NA	588.2	Steel Many-One Rank Sum Test

48h Survival Rate Summary											
C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Receiving Water	5	1	1	1	1	1	0	0	0.0%	0.0%
0	Lab Water	5	1	1	1	1	1	0	0	0.0%	0.0%
0.05		5	1	1	1	1	1	0	0	0.0%	0.0%
0.07		5	1	1	1	1	1	0	0	0.0%	0.0%
0.1		5	1	1	1	1	1	0	0	0.0%	0.0%
0.13		5	1	1	1	1	1	0	0	0.0%	0.0%
0.17		5	1	1	1	1	1	0	0	0.0%	0.0%

48h Survival Rate Detail						
C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Receiving Water	1	1	1	1	1
0	Lab Water	1	1	1	1	1
0.05		1	1	1	1	1
0.07		1	1	1	1	1
0.1		1	1	1	1	1
0.13		1	1	1	1	1
0.17		1	1	1	1	1

CETIS Measurement Report

Report Date: 15 Nov-12 13:57 (p 1 of 4)

Test Code: FH 12-297-0191 | 09-7644-3416

Fathead Minnow 48-h Acute Survival Test

Environmental Testing and Consulting, Inc.

Sample ID: 12-5559-3434 Code: 12-297-0191
Sample Date: 22 Oct-12 07:00 Material: POTW Effluent
Receive Date: 23 Oct-12 13:30 Source: OSCEOLA WATER (AR0021580)
Sample Age: 32h (1 °C) Station:

Client: Osceola Water Department
Project: WET Biannual Compliance Test (2nd)

Sample Note: Receiving Stream collected 10/23/12 8:00

CETIS Measurement Report

Report Date: 15 Nov-12 13:57 (p 2 of 4)
 Test Code: FH 12-297-0191 | 09-7644-3416

Fathead Minnow 48-h Acute Survival Test							Environmental Testing and Consulting, Inc.		
Alkalinity (CaCO3)-mg/L									
C-%	Control Type	Reading Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes	
0	Lab Water	1	63						
0	Lab Water	2	60						
Total Residual Chlorine-mg/L									
C-%	Control Type	Reading Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes	
0	Lab Water	1	0						
0	Receiving Wat		0						
0	Lab Water	2	0						
0	Receiving Wat		0						
Conductivity-µS/cm									
C-%	Control Type	Reading Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes	
0	Lab Water	1	182						
0	Receiving Wat		491						
0	Lab Water	2	185						
0	Receiving Wat		489						
Final Dissolved Oxygen-mg/L									
C-%	Control Type	Reading Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes	
0	Lab Water	1	8.4						
0	Receiving Wat		8.3						
0.05			8.3						
0.07			8.4						
0.1			8.4						
0.13			8.3						
0.17			8.3						
0	Lab Water	2	8.8						
0	Receiving Wat		8.6						
0.05			8.6						
0.07			8.8						
0.1			8.4						
0.13			8.4						
0.17			8.3						
Initial Dissolved Oxygen-mg/L									
C-%	Control Type	Reading Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes	
0	Lab Water	1	9.5						
0	Receiving Wat		8.7						
0.05			8.9						
0.07			9.2						
0.1			9.2						
0.13			9.3						
0.17			9.3						
0	Lab Water	2	8.9						
0	Receiving Wat		9.2						
0.05			9.2						
0.07			9						
0.1			9.3						
0.13			9.2						
0.17			9.2						
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						

CETIS Measurement Report

Report Date: 15 Nov-12 13:57 (p 3 of 4)
 Test Code: FH 12-297-0191 | 09-7644-3416

Fathead Minnow 48-h Acute Survival 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	8.2					
0	Receiving Wat		7.9					
0.05			7.9					
0.07			7.8					
0.1			7.8					
0.13			7.9					
0.17			7.9					
0	Lab Water	2	8.3					
0	Receiving Wat		8.6					
0.05			8.3					
0.07			8.3					
0.1			8.1					
0.13			8.1					
0.17			8					
Initial pH-Units								
C-%	Control Type	Reading Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	Lab Water	1	8.2					
0	Receiving Wat		8.2					
0.05			8.2					
0.07			8.2					
0.1			8.2					
0.13			8.2					
0.17			8.2					
0	Lab Water	2	8.3					
0	Receiving Wat		8.2					
0.05			8.2					
0.07			8.2					
0.1			8.1					
0.13			8.1					
0.17			8.1					
Final Temperature-°C								
C-%	Control Type	Reading Time	Measure	QA	Diff-%	Inst ID	Analyst	Notes
0	Lab Water	1	23					
0	Receiving Wat		23					
0.05			23					
0.07			23					
0.1			23					
0.13			23					
0.17			23					
0	Lab Water	2	23					
0	Receiving Wat		23					
0.05			23					
0.07			23					
0.1			23					
0.13			23					
0.17			23					

CETIS Measurement Report

Report Date: 15 Nov-12 13:57 (p 4 of 4)
Test Code: FH 12-297-0191 | 09-7644-3416

Fathead Minnow 48-h Acute Survival 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					
0	Receiving Wat		23					
0.05			23					
0.07			24					
0.1			24					
0.13			24					
0.17			24					
0	Lab Water	2	23					
0	Receiving Wat		24					
0.05			24					
0.07			24					
0.1			24					
0.13			24					
0.17			24					



ENVIRONMENTAL TESTING & CONSULTING, INC.

www.etcmemphis.com

2780 Whitten Road

Memphis, Tennessee 38133

(901) 213-2400

Fax (901) 213-2440

"A Laboratory Management Partner"

03334

Osceola Water Department

Mr. James Carlock

PO Box 443

Osceola, AR 72370

Project Bioassay
Information :

Report Date : 11/15/2012

Report Number : 12-297-0191

REPORT OF ANALYSIS

Received : 10/23/2012

Lab No : 91675

Matrix: Aqueous

Sample ID : Outfall 001 10/21-22/12

Sampled: 10/22/2012 7:00

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Alkalinity (as CaCO ₃)	181	mg/L	1	1	10/29/12 10:00	EWB	2320B
Total Calcium	20.5	mg/L	0.100	1	10/30/12 18:39	BKN	EPA-200.7
Hardness as CaCO ₃ (SM-2340B)	70.6	mg/L	0.100	1	10/30/12 18:39		EPA-200.7
Total Magnesium	4.72	mg/L	0.100	1	10/30/12 18:39	BKN	EPA-200.7

Lab No : 91676

Matrix: Aqueous

Sample ID : Outfall 001 10/22-23/12

Sampled: 10/23/2012 7:00

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Alkalinity (as CaCO ₃)	181	mg/L	1	1	10/29/12 10:00	EWB	2320B
Total Calcium	19.9	mg/L	0.100	1	10/30/12 18:59	BKN	EPA-200.7
Hardness as CaCO ₃ (SM-2340B)	68.7	mg/L	0.100	1	10/30/12 18:59		EPA-200.7
Total Magnesium	4.61	mg/L	0.100	1	10/30/12 18:59	BKN	EPA-200.7

Lab No : 91677

Matrix: Aqueous

Sample ID : River Water

Sampled: 10/23/2012 8:00

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Alkalinity (as CaCO ₃)	181	mg/L	1	1	10/29/12 10:00	EWB	2320B
Total Calcium	48.1	mg/L	0.100	1	10/30/12 19:06	BKN	EPA-200.7
Hardness as CaCO ₃ (SM-2340B)	205	mg/L	0.100	1	10/30/12 19:06		EPA-200.7
Total Magnesium	20.5	mg/L	0.100	1	10/30/12 19:06	BKN	EPA-200.7

Qualifiers/ Definitions

* Outside QC limit
MQL Method Quantitation Limit

DF Dilution Factor

Environmental Testing and Consulting, Inc.
2790 Whitten Road
Memphis, TN 38133

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: 2500 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: 8
 - Number of replicates: 5
 - Food: Organisms are not fed during test.

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 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



ENVIRONMENTAL TESTING & CONSULTING, INC.

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

12-297-0191
03334
2012-10-23
13:58:47

Osceola Water Department
Bioassay

0000019273

Company Name Osceola Water Department		Customer Number 03334	Telephone (870) 563-2628	RUSH	ICE
Site Name Semi-annual Bioassay		Project Comment bioassay			FID Number
Project Osceola Water - Bioassay		Project Number	PO Number 563016		
Project Manager / Contact Osceola Water Dept.			E-mail		

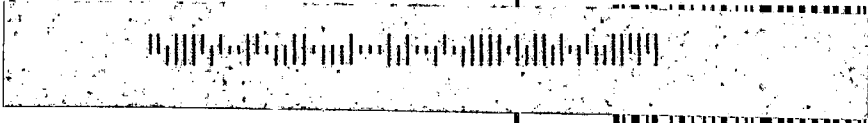
Sample ID	Container Type	Collected Date / Time	# Cont	Preservative	Grab / Comp	Matrix	Analyses
Outfall 001	Plastic - Pint	10/21-22/12 07:00-	2	HNO3 - Nitric Acid	C	Aqueous	hardness
Outfall 001	Plastic - Pint	07:00	2	NONE	C	Aqueous	Alkalinity
Outfall 001	Plastic - Quart	⊥	2	NONE	C	Aqueous	48 hr bioassay - renewal
River Water	Plastic - Pint	10-23-12 08:00	1	HNO3 - Nitric Acid	C	Aqueous	hardness
river water	Plastic - Pint	⊥	1	NONE	C	Aqueous	Alkalinity
river water	Plastic - Gallon	⊥	4	NONE	C	Aqueous	dilution water

Outfall 001	10/22-23/12	1	HNO3	C	Ag	Hardness
	07:00-07:00	1	NONE	C	Ag	Alkalinity
		1	NONE	C	Ag	48 hr bioassay

Sampled By JAMES N CARLOCK	Method of Shipment	Blank / Cooler Temperature OK	Remarks
Relinquished By (sign) James N Carlock	Date / Time 10-23-12 / 1210	Received By (sign) T. Langza	Date / Time 10/23/12 1210
Relinquished By (sign)	Date / Time	Received By (sign)	Date / Time
Relinquished By (sign) T. Langza	Date / Time 10/23/12 1330	Received by Lab (sign) T. Langza	Date / Time 10/23/12 1330

City of Osceola
@ James Carlock
P O Box 443
303 West Hale
Osceola, AR 72370

CERTIFIED MAIL™



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01/11/2013

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Arkansas Department of Environmental Quality
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