

NON-COMPLIANCE LETTER

DATE: 7/24/2015

ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY  
5301 NORTH SHORE DRIVE  
NORTH LITTLE ROCK, AR 72118-5317  
ATTN: ENFORCEMENT SECTION

RE: NPDES PERMIT NO: AR0021831

DISCHARGE NUMBER: TX1-Q

CLIENT: MONTICELLO, CITY OF - EAST PLANT  
ADDRESS: 1000 FLORENCE ROAD (CR80)  
CITY: MONTICELLO  
STATE: AR  
ZIP: 71639  
PHONE: 352-2931  
CONTACT: ANDREA CHAMBERS, CITY CLERK

DATE OF	PARAMETER			PERMIT
NON-COMPLIANCE	EXCEEDED	CONCENTRATION	LOADING	LIMITS

04/01-06/30/15 QUARTERLY - CHRONIC WET TESTING

WE FEEL THIS PROBLEM WAS DUE TO:

NO DISCHARGE AT TIME SAMPLE WAS SCHEDULED FOR COLLECTION.

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WE PLAN ON CORRECTING THE PROBLEM IN THIS MANNER:

---

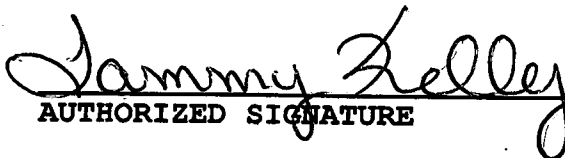
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TIME ESTIMATED THAT IT WILL TAKE:

---

YOURS TRULY,

  
AUTHORIZED SIGNATURE

NON-COMPLIANCE LETTER

DATE: 7/24/2015

ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY  
5301 NORTH SHORE DRIVE  
NORTH LITTLE ROCK, AR 72118-5317  
ATTN: ENFORCEMENT SECTION

RE: NPDES PERMIT NO: AR0021822

DISCHARGE NUMBER: TX1-Q

CLIENT: MONTICELLO, CITY OF - WEST PLANT  
ADDRESS: 1466 OLD WARREN ROAD  
CITY: MONTICELLO  
STATE: AR  
ZIP: 71655  
PHONE: 352-2931  
CONTACT: ANDREA CHAMBERS, CITY CLERK

DATE OF NON-COMPLIANCE	PARAMETER EXCEEDED	CONCENTRATION	LOADING	PERMIT LIMITS
04/01-06/30/15	QUARTERLY -	CHRONIC TOXICITY		

WE FEEL THIS PROBLEM WAS DUE TO:

NO DISCHARGE AT TIME SAMPLE WAS SCHEDULED FOR COLLECTION.

---

---

WE PLAN ON CORRECTING THE PROBLEM IN THIS MANNER:


---

---

TIME ESTIMATED THAT IT WILL TAKE:

---

YOURS TRULY,

  
AUTHORIZED SIGNATURE



11701 I-30 Bldg 1, Ste 115 - Little Rock, AR 72209  
501-455-3233 Fax 501-455-6118

14 July 2015

City of Monticello  
City of Monticello  
P.O. Box 505  
Monticello, AR 71655

Project: East Pond - Effluent Sample

Project Number: 18301.0101

SDG Number: 1507102

Enclosed are the results of analyses for samples received by the laboratory on 07-Jul-15 15:33. If you have any questions concerning this report, please feel free to contact me.

Sample Receipt Information:

Custody Seals	✓
Containers Correct	✓
COC/Labels Agree	✓
Received On Ice	✓
Temperature on Receipt	3.0°C

Sincerely,

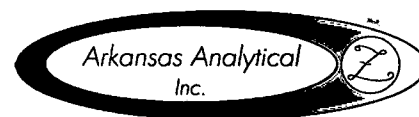
*Norma James / Teresa Coins*

---

Norma James and/or Teresa Coins  
Technical Director and/or QA Officer

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14 July 2015



City of Monticello  
City of Monticello  
P.O. Box 505  
Monticello, AR 71655  
Project: East Pond - Effluent Sample  
Project Number: 18301.0101  
Date Received: 07-Jul-15 15:33

**ANALYTICAL RESULTS**

Lab Number: 1507102-01  
Sample Name: Outfall 001 Grab  
Date/Time Collected: 7/7/15 0:00  
Sample Matrix: Water

Wet Chemistry	Units	Result	Qualifier(s)	Date/Time Analyzed	Batch	Method
BOD-5	mg/L	13.1		7/8/15 9:00	A507076	5210 B-2001, Hach 10360
TSS	mg/L	26.5		7/8/15 11:00	A507089	2540 D-1997

**QUALITY CONTROL RESULTS**

Wet Chemistry -- Batch: A507076 (Water)

Prepared: 07-Jul-15 16:23 By: KP -- Analyzed: 07-Jul-15 16:23 By: KP

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
BOD-5	<2.00 mg/L	99.0% / 104%	NA / NA		4.73%	

Wet Chemistry -- Batch: A507089 (Water)

Prepared: 07-Jul-15 16:00 By: KP -- Analyzed: 07-Jul-15 16:00 By: KP

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
TSS	<1.0 mg/L	102% / 105%	NA / NA		2.90%	

All Analysis performed according to EPA approved methodology when available:  
SW 846, Revised December, 1996; EPA 600/4-79-020, Revised March, 1983; Standard Methods.  
Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

Reviewed by: Norma James / Teresa Coins  
Norma James and/or Teresa Coins  
Technical Director and/or QA Officer

# SORRELLS RESEARCH ASSOCIATES, INC

8100 NATIONAL DRIVE, LITTLE ROCK, AR 72209

501-562-8139 800-331-8139

FAX 501-562-7025

## CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24HR. 48 HR.

5 DAY REG

OTHER \_\_\_\_\_

FOR LAB/OFFICE USE ONLY

LAB # 18301.0101

CLIENT # \_\_\_\_\_

P.O.# \_\_\_\_\_

STANDARD METHODS PRESERVATION PER EPA 40 CFR

C 4= COOL TO 4.C

S<2= SULFURIC ACID TO pH<2

N<2= NITRIC ACID TO pH<2

T= THIOSULFATE FOR DECHLORINATION

W= WINKLER AZIDE MODIFICATION

P= MEMBRANE ELECTRODE

NaOH= pH >12

11091312

NAME OF COMPANY, CITY, OR PROJECT

PROJECT NO:

SAMPLER(S) NAME: (PRINT)

Monticello East Plant

SAMPLE NO:	SAMPLE ID AND/OR COLLECTION LOCATION	START	END	COMP	FIELD ANALYSIS				D.O (W)	CONTAINER TYPE	ANALYSIS REQUIRED
		DATE/TIME	DATE/TIME	GRAB	pH	TEMP	FLOW	CL2	D.O(P)	PRESERVATIVE	
	Outfall 001	7/7/15			8.37	25.4			8.57	1 qt.	1507102-01 BOD, TSS - 0P
										500ml P s<2	<del>T-Phos, NO3/NO2-N, NH3</del>
										100 mL T	FC
										300 mL W	DO
										client	pH, temp, flow
METHOD OF SHIPMENT (CIRCLE)		FIELD CALIBRATION RECORD			Samples Received at Arkansas Analytical Relinquished By: Sorrells						
FED EX WALK IN SRA UPS OTHER		pH 7	7.00		Date/Time: 7/7/15 1533						
		pH 4	4.01		Received By: Amanda Faber						
		pH 10	10.00		Custody Seals: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>						
		D.O			Containers Correct: <input checked="" type="checkbox"/>						
TYPE OF SAMPLE(S): (CIRCLE)					COC/Labels Agree: <input checked="" type="checkbox"/>						
WATER SOIL W/W SLUDGE OTHER					Received on Ice: <input type="checkbox"/>						
					Temperature on Receipt: 32						
					Temperature Gun ID: HHT # 2						
					FIELD ANALYSIS CONDUCTED BY: (CIRCLE) SRA CLIENT						

RELINQUISHED BY: [Signature] DATE/TIME: 7/7/15 800am RECEIVED BY: [Signature] DATE/TIME: 7-7-15 11:54

RELINQUISHED BY: \_\_\_\_\_ DATE/TIME: \_\_\_\_\_ RECEIVED BY(LAB): [Signature] DATE/TIME: 7-7-15 1550



**SORRELLS RESEARCH  
LABORATORY AND FIELD SERVICES**

**WEF**



CHEMISTS  
ECOLOGISTS  
CONSULTANTS  
PLANNERS

8100 National Drive  
Little Rock, Arkansas 72209

Phone 501-562-8139  
Fax 501-562-7025  
Toll Free 1-800-331-8139

LABORATORY ANALYSIS

Date of Report: July 16, 2015  
Date Received : July 7, 2015

For: MONTICELLO, CITY OF  
505  
203 WEST GAINES  
MONTICELLO, AR 71655-

Job: NPDES MONITORING PERMIT NO: AR0021831 3/WK

Sample From: EAST PLANT / EFFLUENT OUTFALL

ANALYTE	RESULT	UNITS	METHOD
Biochemical oxygen demand	13.100	mg/Liter	5210 B
Total suspended solids	26.500	mg/Liter	2540D
*Fecal Coliform	600.000	#/100 ml	9222 D
*Dissolved oxygen (-0)	8.570	mg/Liter	4500 G
*pH <-H+>	8.370	units	4500 B
*Temperature	25.400	.C	2550 B

STANDARD METHODS, 20TH ED.; EPA METHODS, 3RD ED.

Collected by:

CLIENT on 07/07/15 at 8:00

Analysis by :

\*ALL TESTS PERFORMED BY ARKANSAS ANALYTICAL INC., EXCEPT WHERE NOTED BY (\*)

Sample preservation and Laboratory Analysis conducted according to EPA 40 CFR Part 136. Test/Analyst/Time/Coeff./Var./ QA plan filed with ADPC&E. Includes 10 % replication and 10 % recovery studies by random selection. Instruments maintained and calibrated and records kept. See Attached.

Copies to:

MR. CHARLIE HAMMOCK  
OPERATOR  
P.O. BOX 505  
203 WEST GAINES  
MONTICELLO, AR 71657-

Laboratory Number: 18301.0101 TKR Reviewed By: K. E. Sorrells, M.S. [ ]





**SORRELLS RESEARCH  
LABORATORY AND FIELD SERVICES**

**WEF**



CHEMISTS  
ECOLOGISTS  
CONSULTANTS  
PLANNERS

8100 National Drive  
Little Rock, Arkansas 72209

Phone 501-562-8139  
Fax 501-562-7025  
Toll Free 1-800-331-8139

**QUALITY ASSURANCE**

July 7, 2015

The following QA represents SRA's Quality Assurance values for this report.

ANALYTE	ANALYST	BEG. DATE	BEG. TIME	FIN. DATE	FIN. TIME	S.D. %	SPK. REC.	#IN BAT
Arkansas Analytical Inc.	QA OF	/ /	0	/ /	0	0.00	0.0	0
*Fecal Coliform	CAS	07/07/15	1630	07/08/15	1600	0.00	0.0	6
*Dissolved oxygen (-0)	CLIEN	07/07/15	800	07/07/15	800	0.00	0.0	1
*pH <-H+>	CLIEN	07/07/15	800	07/07/15	800	0.00	0.0	1
*Temperature	CLIEN	07/07/15	800	07/07/15	800	0.00	0.0	1

Field PH/TEMP/D.O. Sampler or Courier/ at time of sampling or pick up  
Sample preservation and laboratory analysis conducted according to EPA  
40 CFR Part 136 TEST/ANALYST/TIME/COEF. VAR.\* QA PLAN filed with  
ADPC&E. Include replication.

KES = K. E. Sorrells  
JBS = James B. Sorrells  
CAS = Cecil A. Sorrells  
MKM = Mark Kyle McKenzie

KESII = K. E. Sorrells, II  
TJS = Todd J. Sanders  
JHD = J. Henry Dodson

Laboratory Number: 18301.0101 TKR



11701 I-30 Bldg 1, Ste 115 - Little Rock, AR 72209  
501-455-3233 Fax 501-455-6118

16 July 2015

City of Monticello  
City of Monticello  
P.O. Box 505  
Monticello, AR 71655

Project: West Plant Permit Renewal

Project Number: 18302.0201

SDG Number: 1507150

Enclosed are the results of analyses for samples received by the laboratory on 08-Jul-15 16:34. If you have any questions concerning this report, please feel free to contact me.

Sample Receipt Information:

Custody Seals	✓
Containers Correct	✓
COC/Labels Agree	✓
Received On Ice	✓
Temperature on Receipt	4.0°C

Sincerely,

*Norma James / Teresa Coins*

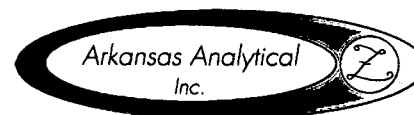
---

Norma James and/or Teresa Coins  
Technical Director and/or QA Officer

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16 July 2015



City of Monticello  
 City of Monticello  
 P.O. Box 505  
 Monticello, AR 71655  
 Project: West Plant Permit Renewal  
 Project Number: 18302.0201  
 Date Received: 08-Jul-15 16:34

**ANALYTICAL RESULTS**

Lab Number: 1507150-01  
 Sample Name: Outfall 001 Grab  
 Date/Time Collected: 7/8/15 8:00  
 Sample Matrix: Water

Anions	Units	Result	Qualifier(s)	Date/Time Analyzed	Batch	Method
Nitrate + Nitrite	mg/L	< 0.500		7/9/15 16:53	[CALC]	300.0, 2.1-1993
Nitrate as N	mg/L	< 0.250		7/9/15 16:53	A507127	300.0, 2.1-1993
Nitrite as N	mg/L	< 0.250		7/9/15 16:53	A507127	300.0, 2.1-1993
Total Metals	Units	Result	Qualifier(s)	Date/Time Analyzed	Batch	Method
Phosphorus	mg/L	0.059		7/14/15 17:53	A507174	200.7, Rev 4.4 (1994)
Wet Chemistry	Units	Result	Qualifier(s)	Date/Time Analyzed	Batch	Method
BOD-5	mg/L	6.11		7/9/15 9:00	A507138	5210 B-2001, Hach 10360
TSS	mg/L	46.0		7/9/15 14:00	A507111	2540 D-1997

**QUALITY CONTROL RESULTS**

Wet Chemistry -- Batch: A507111 (Water)

Prepared: 09-Jul-15 14:00 By: KP -- Analyzed: 09-Jul-15 14:00 By: KP

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
TSS	<1.00 mg/L	106% / 107%	NA / NA		0.939%	

Anions -- Batch: A507127 (Water)

Prepared: 09-Jul-15 16:24 By: MB -- Analyzed: 09-Jul-15 19:15 By: Mel

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Nitrate as N	<0.250 mg/L	95.2% / NA	95.4% / 94.6%		0.843%	
Nitrite as N	<0.250 mg/L	93.6% / NA	91.8% / 91.6%		0.164%	

Wet Chemistry -- Batch: A507138 (Water)

Prepared: 09-Jul-15 09:00 By: KP -- Analyzed: 09-Jul-15 09:00 By: KP

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
BOD-5	<2.00 mg/L	96.2% / 101%	NA / NA		4.62%	

Total Metals -- Batch: A507174 (Water)

Prepared: 14-Jul-15 12:05 By: HF -- Analyzed: 14-Jul-15 17:01 By: HF

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Phosphorus	<0.026 mg/L	95.6% / NA	97.7% / 99.8%		1.51%	

16 July 2015



City of Monticello  
City of Monticello  
P.O. Box 505  
Monticello, AR 71655  
Project: West Plant Permit Renewal  
Project Number: 18302.0201  
Date Received: 08-Jul-15 16:34

---

All Analysis performed according to EPA approved methodology when available:  
SW 846, Revised December, 1996; EPA 600/4-79-020, Revised March, 1983; Standard Methods.  
Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

Reviewed by: Norma James / Teresa Coins  
Norma James and/or Teresa Coins  
Technical Director and/or QA Officer

# SORRELLS RESEARCH ASSOCIATES, INC

8100 NATIONAL DRIVE, LITTLE ROCK, AR 72209

501-562-8139 800-331-8139

FAX 501-562-7025

## CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24HR. 48 HR.

5 DAY REG

OTHER \_\_\_\_\_

FOR LAB/OFFICE USE ONLY

LAB # 18302.0201

CLIENT # \_\_\_\_\_

P.O.# \_\_\_\_\_

STANDARD METHODS PRESERVATION PER EPA 40 CFR

C 4= COOL TO 4.C

S<2= SULFURIC ACID TO pH<2

N<2= NITRIC ACID TO pH<2

T= THIOSULFATE FOR DECHLORINATION

W= WINKLER AZIDE MODIFICATION

P= MEMBRANE ELECTRODE

NaOH= pH >12

110919K2

NAME OF COMPANY, CITY, OR PROJECT

PROJECT NO.:

SAMPLER(S) NAME: (PRINT)

Monticello West Plant

SAMPLE NO:	SAMPLE ID AND/OR COLLECTION LOCATION	START	END	COMP	FIELD ANALYSIS				D.O (W)	CONTAINER TYPE	ANALYSIS REQUIRED
		DATE/TIME	DATE/TIME	GRAB	pH	TEMP	FLOW	CL2	D.O(P)	PRESERVATIVE	
	Outfall 001	7/8/15 8AM			8.04	21.0			7.14	1 qt.	1507150-01 BOD, TSS $NO_3/NO_2$ -01
										500ml P s<2	T. Phos, $NO_3/NO_2-N, NH_3$ -01
										100 mL T	FC
										300 mL W	DO
										client	pH, temp, flow
METHOD OF SHIPMENT (CIRCLE)		FIELD CALIBRATION RECORD				Samples Received at Arkansas Analytical:			Custody Seals:		
FED EX WALK IN SRA UPS OTHER		pH 7	7.00		Relinquished By: Sorrells			Containers Correct: X			
		pH 4	4.01		Date/Time: 7-8-15, 1434			COC/Labels Agree: X			
		pH 10	10.00		Received By: Sydney James			Received on Ice: X			
		D.O						Temperature on Receipt: 4°C			
TYPE OF SAMPLE(S): (CIRCLE)						FIELD ANALYSIS CONDUCTED BY: (CIRCLE) SRA CLIENT			Temperature Gun ID: HHT # 2		
WATER SOIL W/W SLUDGE OTHER											

RELINQUISHED BY: [Signature] DATE/TIME: 7/8/15 800

RECEIVED BY: [Signature] DATE/TIME: 7-8-15 11:54

RELINQUISHED BY: \_\_\_\_\_ DATE/TIME: \_\_\_\_\_

RECEIVED BY(LAB): [Signature] DATE/TIME: 7-8-15 1345



11701 I-30 Bldg 1, Ste 115 - Little Rock, AR 72209  
501-455-3233 Fax 501-455-6118

16 July 2015

City of Monticello  
City of Monticello  
P.O. Box 505  
Monticello, AR 71655

Project: East Pond - Effluent Sample  
Project Number: 18301.0301  
SDG Number: 1507177

Enclosed are the results of analyses for samples received by the laboratory on 09-Jul-15 16:20. If you have any questions concerning this report, please feel free to contact me.

Sample Receipt Information:

Custody Seals	✓
Containers Correct	✓
COC/Labels Agree	✓
Received On Ice	✓
Temperature on Receipt	4.0°C

Sincerely,

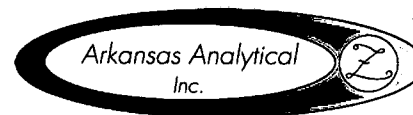
A handwritten signature in cursive script that reads "Norma James / Teresa Coins".

---

Norma James and/or Teresa Coins  
Technical Director and/or QA Officer

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16 July 2015



City of Monticello  
City of Monticello  
P.O. Box 505  
Monticello, AR 71655  
Project: East Pond - Effluent Sample  
Project Number: 18301.0301  
Date Received: 09-Jul-15 16:20

**ANALYTICAL RESULTS**

Lab Number: 1507177-01  
Sample Name: Outfall 001 Grab  
Date/Time Collected: 7/9/15 8:00  
Sample Matrix: Water

Wet Chemistry	Units	Result	Qualifier(s)	Date/Time Analyzed	Batch	Method
BOD-5	mg/L	22.4		7/10/15 14:11	A507139	5210 B-2001, Hach 10360
TSS	mg/L	45.0		7/13/15 16:01	A507140	2540 D-1997

**QUALITY CONTROL RESULTS**

Wet Chemistry -- Batch: A507139 (Water)

Prepared: 10-Jul-15 14:11 By: KP -- Analyzed: 10-Jul-15 14:11 By: KP

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
BOD-5	<2.00 mg/L	102% / 107%	NA / NA		4.59%	

Wet Chemistry -- Batch: A507140 (Water)

Prepared: 13-Jul-15 08:01 By: KP -- Analyzed: 13-Jul-15 16:01 By: KP

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
TSS	<1.00 mg/L	100% / 99.0%	NA / NA		1.01%	

All Analysis performed according to EPA approved methodology when available:  
SW 846, Revised December, 1996; EPA 600/4-79-020, Revised March, 1983; Standard Methods.  
Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

Reviewed by: Norma James / Teresa Coins  
Norma James and/or Teresa Coins  
Technical Director and/or QA Officer

# SORRELLS RESEARCH ASSOCIATES, INC

8100 NATIONAL DRIVE, LITTLE ROCK, AR 72209

501-562-8139 800-331-8139

FAX 501-562-7025

## CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24HR. 48 HR.

5 DAY REG

OTHER \_\_\_\_\_

FOR LAB/OFFICE USE ONLY

LAB # 18301.0301

CLIENT # \_\_\_\_\_

P.O.# \_\_\_\_\_

STANDARD METHODS PRESERVATION PER EPA 40 CFR

C 4= COOL TO 4.C

S<2= SULFURIC ACID TO pH<2

N<2= NITRIC ACID TO pH<2

T= THIOSULFATE FOR DECHLORINATION

W= WINKLER AZIDE MODIFICATION

P= MEMBRANE ELECTRODE

NaOH= pH >12

NAME OF COMPANY, CITY, OR PROJECT

PROJECT NO:

SAMPLER(S) NAME: (PRINT)

110213K2

Monticello East Plant

SAMPLE NO:	SAMPLE ID AND/OR COLLECTION LOCATION	START	END	COMP	FIELD ANALYSIS				D.O (W)	CONTAINER TYPE	ANALYSIS REQUIRED																							
		DATE/TIME	DATE/TIME	<u>PRAB</u>	pH	TEMP	FLOW	CL2	D.O(P)	PRESERVATIVE																								
	Outfall 001	7/9/15 8AM			8.60	24.7			7.55	1 qt.	1507177- BOD, TSS 01																							
										500ml P s<2	<del>I Phos, NO3/NO2-N, NH3</del>																							
										100 mL T	FC																							
										300 mL W	DO																							
										client	pH, temp, flow																							
METHOD OF SHIPMENT (CIRCLE)		FIELD CALIBRATION RECORD			<p>Samples Received at Arkansas Analytical Relinquished By: Sorrells</p> <p>Date/Time: <u>7-9-15 11:20</u></p> <p>Received By: <u>Amanda Faber</u></p>							<table border="1"> <tr> <td></td> <td>Yes</td> <td>No</td> </tr> <tr> <td>Custody Seals:</td> <td>X</td> <td></td> </tr> <tr> <td>Containers Correct:</td> <td>X</td> <td></td> </tr> <tr> <td>GOC/Labels Agree:</td> <td>X</td> <td></td> </tr> <tr> <td>Received on Ice:</td> <td>X</td> <td></td> </tr> <tr> <td>Temperature on Receipt:</td> <td></td> <td>4°C</td> </tr> <tr> <td>Temperature Gun ID:</td> <td colspan="2">HHT # 2</td> </tr> </table>			Yes	No	Custody Seals:	X		Containers Correct:	X		GOC/Labels Agree:	X		Received on Ice:	X		Temperature on Receipt:		4°C	Temperature Gun ID:	HHT # 2	
	Yes	No																																
Custody Seals:	X																																	
Containers Correct:	X																																	
GOC/Labels Agree:	X																																	
Received on Ice:	X																																	
Temperature on Receipt:		4°C																																
Temperature Gun ID:	HHT # 2																																	
FED EX WALK IN SRA UPS OTHER	pH 7	7.00																																
	pH 4	4.01																																
	pH 10	10.00																																
TYPE OF SAMPLE(S): (CIRCLE)		D.O																																
WATER SOIL W/W SLUDGE OTHER																																		
					FIELD ANALYSIS CONDUCTED BY: (CIRCLE) SRA CLIENT																													

RELINQUISHED BY: [Signature]

DATE/TIME: 7/9/15

RECEIVED BY: [Signature]

DATE/TIME: 7-9-15 11:31

RELINQUISHED BY:

DATE/TIME:

RECEIVED BY(LAB): [Signature]

DATE/TIME: 7-9-15 1330



11701 I-30 Bldg 1, Ste 115 - Little Rock, AR 72209  
501-455-3233 Fax 501-455-6118

16 July 2015

City of Monticello  
City of Monticello  
P.O. Box 505  
Monticello, AR 71655

Project: West Pond - Effluent Sample  
Project Number: 18302.0301  
SDG Number: 1507176

Enclosed are the results of analyses for samples received by the laboratory on 09-Jul-15 16:20. If you have any questions concerning this report, please feel free to contact me.

Sample Receipt Information:

Custody Seals	✓
Containers Correct	✓
COC/Labels Agree	✓
Received On Ice	✓
Temperature on Receipt	4.0°C

Sincerely,

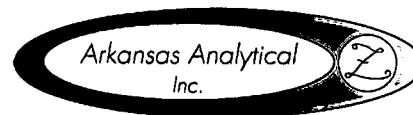
*Norma James / Teresa Coins*

---

Norma James and/or Teresa Coins  
Technical Director and/or QA Officer

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16 July 2015



City of Monticello
City of Monticello
P.O. Box 505
Monticello, AR 71655
Project: West Pond - Effluent Sample
Project Number: 18302.0301
Date Received: 09-Jul-15 16:20

ANALYTICAL RESULTS

Lab Number: 1507176-01
Sample Name: Outfall 001 Grab
Date/Time Collected: 7/9/15 8:00
Sample Matrix: Water

Table with 7 columns: Analyte, Units, Result, Qualifier(s), Date/Time Analyzed, Batch, Method. Rows include Anions (Nitrate + Nitrite, Nitrate as N, Nitrite as N), Total Metals (Phosphorus), and Wet Chemistry (BOD-5, TSS).

QUALITY CONTROL RESULTS

Anions -- Batch: A507127 (Water)

Prepared: 09-Jul-15 16:24 By: MB -- Analyzed: 09-Jul-15 19:15 By: Mel

Table with 7 columns: Analyte, BLK, LCS / LCSD, MS / MSD, Dup, RPD, Qualifiers. Rows for Nitrate as N and Nitrite as N.

Wet Chemistry -- Batch: A507139 (Water)

Prepared: 10-Jul-15 14:11 By: KP -- Analyzed: 10-Jul-15 14:11 By: KP

Table with 7 columns: Analyte, BLK, LCS / LCSD, MS / MSD, Dup, RPD, Qualifiers. Row for BOD-5.

Wet Chemistry -- Batch: A507140 (Water)

Prepared: 13-Jul-15 08:01 By: KP -- Analyzed: 13-Jul-15 16:01 By: KP

Table with 7 columns: Analyte, BLK, LCS / LCSD, MS / MSD, Dup, RPD, Qualifiers. Row for TSS.

Total Metals -- Batch: A507174 (Water)

Prepared: 14-Jul-15 12:05 By: HF -- Analyzed: 14-Jul-15 17:01 By: HF

Table with 7 columns: Analyte, BLK, LCS / LCSD, MS / MSD, Dup, RPD, Qualifiers. Row for Phosphorus.



16 July 2015



City of Monticello  
City of Monticello  
P.O. Box 505  
Monticello, AR 71655  
Project: West Pond - Effluent Sample  
Project Number: 18302.0301  
Date Received: 09-Jul-15 16:20

---

All Analysis performed according to EPA approved methodology when available:  
SW 846, Revised December, 1996; EPA 600/4-79-020, Revised March, 1983; Standard Methods.  
Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

Reviewed by: Norma James / Teresa Coins  
Norma James and/or Teresa Coins  
Technical Director and/or QA Officer

# SORRELLS RESEARCH ASSOCIATES, INC

8100 NATIONAL DRIVE, LITTLE ROCK, AR 72209

501-562-8139 800-331-8139

FAX 501-562-7025

## CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24HR. 48 HR.

5 DAY REG

OTHER \_\_\_\_\_

FOR LAB/OFFICE USE ONLY

LAB # 18302.0301

CLIENT # \_\_\_\_\_

P.O.# \_\_\_\_\_

STANDARD METHODS PRESERVATION PER EPA 40 CFR

C 4= COOL TO 4.C

S<2= SULFURIC ACID TO pH<2

N<2= NITRIC ACID TO pH<2

T= THIOSULFATE FOR DECHLORINATION

W= WINKLER AZIDE MODIFICATION

P= MEMBRANE ELECTRODE

NaOH= pH >12

NAME OF COMPANY, CITY, OR PROJECT


PROJECT NO:

SAMPLER(S) NAME: (PRINT)

110213H2

Monticello West Plant

SAMPLE NO:	SAMPLE ID AND/OR COLLECTION LOCATION	START	END	COMP	FIELD ANALYSIS				D.O (W)	CONTAINER TYPE	ANALYSIS REQUIRED
		DATE/TIME	DATE/TIME	<u>BRAB</u>	pH	TEMP	FLOW	CL2	D.O(P)	PRESERVATIVE	
	Outfall 001	7/9/15 8AM			8.84	25.7			7.90	1 qt.	1507176-
										500ml P s<2	BOD, TSS, NO <sub>2</sub> /NO <sub>3</sub> 017
										100 mL T	T. Phos, NO <sub>3</sub> /NO <sub>2</sub> -N, NH <sub>3</sub>
										300 mL W	FC
										client	DO
											pH, temp, flow
METHOD OF SHIPMENT (CIRCLE)		FIELD CALIBRATION RECORD				Samples Received at Arkansas Analytical Relinquished By: Sorrells				Custody Seals: Yes No	
FED EX WALK IN SRA UPS OTHER		pH 7	7.00		Date/Time: 7-9-15 1620				Containers Correct: X		
		pH 4	4.01		Received By: Amanda Faber				COC/Labels Agree: X		
		pH 10	10.00						Received on Ice: X		
		D.O							Temperature on Receipt: 4°C		
TYPE OF SAMPLE(S): (CIRCLE)										Temperature Gun ID: HHT # 2	
WATER SOIL W/W SLUDGE OTHER						FIELD ANALYSIS CONDUCTED BY: (CIRCLE) SRA CLIENT					

RELINQUISHED BY:  DATE/TIME: 7/9/15

RECEIVED BY:  DATE/TIME: 7-9-15 11:31

RELINQUISHED BY: \_\_\_\_\_ DATE/TIME: \_\_\_\_\_

RECEIVED BY(LAB):  DATE/TIME: 7-9-15 1330



**SORRELLS RESEARCH  
LABORATORY AND FIELD SERVICES**

**WEF**



CHEMISTS  
ECOLOGISTS  
CONSULTANTS  
PLANNERS

8100 National Drive  
Little Rock, Arkansas 72209

Phone 501-562-8139  
Fax 501-562-7025  
Toll Free 1-800-331-8139

LABORATORY ANALYSIS

Date of Report: July 23, 2015  
Date Received : July 7, 2015

For: MONTICELLO, CITY OF  
505  
203 WEST GAINES  
MONTICELLO, AR 71655-

Job: NPDES MONITORING PERMIT NO: AR0021822 3/WK  
Sample From: WEST PLANT / EFFLUENT OUTFALL

ANALYTE	RESULT	UNITS	METHOD
Biochemical oxygen demand	5.960	mg/Liter	5210 B
Total suspended solids	34.000	mg/Liter	2540D
Phosphorus, total	0.121	mg/Liter	4500 E
Nitrate + nitrite as N	0.500	mg/Liter	4110 B
Ammonia nitrogen (-NH3)	1.090	mg/Liter	4500 D
*Fecal Coliform	480.000	#/100 ml	9222 D
*Dissolved oxygen (-O)	5.740	mg/Liter	4500 G
*pH <-H+>	7.660	units	4500 B
*Temperature	23.800	.C	2550 B

STANDARD METHODS, 20TH ED.; EPA METHODS, 3RD ED.3

Collected by:

CLIENT on 07/07/15 at 8:00

Analysis by :

\*ALL TESTS PERFORMED BY ARKANSAS ANALYTICAL INC., EXCEPT WHERE NOTED BY (\*)

Sample preservation and Laboratory Analysis conducted according to EPA 40 CFR Part 136. Test/Analyst/Time/Coeff./Var./ QA plan filed with ADPC&E. Includes 10 % replication and 10 % recovery studies by random selection. Instruments maintained and calibrated and records kept. See Attached.

Copies to:

MR. CHARLIE HAMMOCK  
OPERATOR  
P.O. BOX 505  
203 WEST GAINES  
MONTICELLO, AR 71657-

Laboratory Number: 18302.0101 TKR Reviewed By: K. E. Sorrells, M.S. [ ]



**SORRELLS RESEARCH  
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**WEF**



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Little Rock, Arkansas 72209

Phone 501-562-8139  
Fax 501-562-7025  
Toll Free 1-800-331-8139

QUALITY ASSURANCE

July 7, 2015

The following QA represents SRA's Quality Assurance values for this report.

ANALYTE	ANALYST	BEG. DATE	BEG. TIME	FIN. DATE	FIN. TIME	S.D. %	SPK. REC.	#IN BAT
Arkansas Analytical Inc.	QA OF	/ /	0	/ /	0	0.00	0.0	0
*Fecal Coliform	CAS	07/07/15	1630	07/08/15	1600	0.00	0.0	6
*Dissolved oxygen (-0)	CLIEN	07/07/15	800	07/07/15	800	0.00	0.0	1
*pH <-H+>	CLIEN	07/07/15	800	07/07/15	800	0.00	0.0	1
*Temperature	CLIEN	07/07/15	800	07/07/15	800	0.00	0.0	1

Field PH/TEMP/D.O. Sampler or Courier/ at time of sampling or pick up  
Sample preservation and laboratory analysis conducted according to EPA  
40 CFR Part 136 TEST/ANALYST/TIME/COEF. VAR.\* QA PLAN filed with  
ADPC&E. Include replication.

KES = K. E. Sorrells  
JBS = James B. Sorrells  
CAS = Cecil A. Sorrells  
MKM = Mark Kyle McKenzie

KESII = K. E. Sorrells, II  
TJS = Todd J. Sanders  
JHD = J. Henry Dodson

Laboratory Number: 18302.0101 TKR



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Little Rock, Arkansas 72209

Phone 501-562-8139  
Fax 501-562-7025  
Toll Free 1-800-331-8139

**LABORATORY ANALYSIS**

Date of Report: July 23, 2015  
Date Received : July 8, 2015

For: MONTICELLO, CITY OF  
505  
203 WEST GAINES  
MONTICELLO, AR 71655-

Job: NPDES MONITORING PERMIT NO: AR0021822 3/WK

Sample From: WEST PLANT / EFFLUENT OUTFALL

ANALYTE	RESULT	UNITS	METHOD
Biochemical oxygen demand	6.110	mg/Liter	5210 B
Total suspended solids	46.000	mg/Liter	2540D
Nitrate + nitrite as N	< 0.500	mg/Liter	4110 B
Phosphorus, total	0.059	mg/Liter	4500 E
*Fecal Coliform	600.000	#/100 ml	9222 D
*Dissolved oxygen (-0)	7.160	mg/Liter	4500 G
*pH <-H+>	8.060	units	4500 B
*Temperature	24.000	.C	2550 B

STANDARD METHODS, 20TH ED.; EPA METHODS, 3RD ED.

Collected by:

CLIENT on 07/08/15 at 8:00

Analysis by :

\*ALL TESTS PERFORMED BY ARKANSAS ANALYTICAL INC., EXCEPT WHERE NOTED BY (\*)

Sample preservation and Laboratory Analysis conducted according to EPA 40 CFR Part 136. Test/Analyst/Time/Coeff./Var./ QA plan filed with ADPC&E.

Includes 10 % replication and 10 % recovery studies by random selection.

Instruments maintained and calibrated and records kept.

See Attached.

Copies to:

MR. CHARLIE HAMMOCK

OPERATOR

P.O. BOX 505

203 WEST GAINES

MONTICELLO, AR 71657-

Laboratory Number: 18302.0201

TKR Reviewed By: K. E. Sorrells, M.S. [ ]



**SORRELLS RESEARCH  
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**QUALITY ASSURANCE**

July 8, 2015

The following QA represents SRA's Quality Assurance values for this report.

ANALYTE	ANALYST	BEG. DATE	BEG. TIME	FIN. DATE	FIN. TIME	S.D. %	SPK. REC.	#IN BAT
Arkansas Analytical Inc.	QA OF	/ /	0	/ /	0	0.00	0.0	0
*Fecal Coliform	CAS	07/08/15	1350	07/09/15	1520	0.00	0.0	2
*Dissolved oxygen (-0)	CLIEN	07/08/15	800	07/08/15	800	0.00	0.0	1
*pH <-H+>	CLIEN	07/08/15	800	07/08/15	800	0.00	0.0	1
*Temperature	CLIEN	07/08/15	800	07/08/15	800	0.00	0.0	1

Field PH/TEMP/D.O. Sampler or Courier/ at time of sampling or pick up  
Sample preservation and laboratory analysis conducted according to EPA  
40 CFR Part 136 TEST/ANALYST/TIME/COEF. VAR.\* QA PLAN filed with  
ADPC&E. Include replication.

KES = K. E. Sorrells  
JBS = James B. Sorrells  
CAS = Cecil A. Sorrells  
MKM = Mark Kyle McKenzie

KESII = K. E. Sorrells, II  
TJS = Todd J. Sanders  
JHD = J. Henry Dodson

Laboratory Number: 18302.0201 TKR



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LABORATORY AND FIELD SERVICES**



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Little Rock, Arkansas 72209

Phone 501-562-8139  
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Toll Free 1-800-331-8139

LABORATORY ANALYSIS

Date of Report: July 23, 2015  
Date Received : July 9, 2015

For: MONTICELLO, CITY OF  
505  
203 WEST GAINES  
MONTICELLO, AR 71655-

Job: NPDES MONITORING PERMIT NO: AR0021822 3/WK

Sample From: WEST PLANT / EFFLUENT OUTFALL

ANALYTE	RESULT	UNITS	METHOD
Biochemical oxygen demand	5.560	mg/Liter	5210 B
Total suspended solids	53.600	mg/Liter	2540D
Phosphorus, total	0.057	mg/Liter	4500 E
Nitrate + nitrite as N	<	0.500 mg/Liter	4110 B
*Fecal Coliform	700.000	#/100 ml	9222 D
*Dissolved oxygen (-0)	7.900	mg/Liter	4500 G
*pH <-H+>	8.840	units	4500 B
*Temperature	25.700	.C	2550 B

STANDARD METHODS, 20TH ED.; EPA METHODS, 3RD ED.

Collected by:

CLIENT on 07/09/15 at 8:00

Analysis by :

\*ALL TESTS PERFORMED BY ARKANSAS ANALYTICAL INC., EXCEPT WHERE NOTED BY (\*)

Sample preservation and Laboratory Analysis conducted according to EPA 40 CFR Part 136. Test/Analyst/Time/Coeff./Var./ QA plan filed with ADPC&E.

Includes 10 % replication and 10 % recovery studies by random selection.

Instruments maintained and calibrated and records kept.

See Attached.

Copies to:

MR. CHARLIE HAMMOCK

OPERATOR

P.O. BOX 505

203 WEST GAINES

MONTICELLO, AR 71657-

Laboratory Number: 18302.0301 TKR Reviewed By: K. E. Sorrells, M.S. [ ]



**SORRELLS RESEARCH  
LABORATORY AND FIELD SERVICES**

**WEF**



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ECOLOGISTS  
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PLANNERS

8100 National Drive  
Little Rock, Arkansas 72209

Phone 501-562-8139  
Fax 501-562-7025  
Toll Free 1-800-331-8139

QUALITY ASSURANCE

July 9, 2015

The following QA represents SRA's Quality Assurance values for this report.

ANALYTE	ANALYST	BEG. DATE	BEG. TIME	FIN. DATE	FIN. TIME	S.D. %	SPK. REC.	#IN BAT
Arkansas Analytical Inc.	QA OF	/ /	0	/ /	0	0.00	0.0	0
*Fecal Coliform	CAS	07/09/15	1530	07/10/15	1300	0.00	0.0	2
*Dissolved oxygen (-0)	CLIEN	07/09/15	800	07/09/15	800	0.00	0.0	1
*pH <-H+>	CLIEN	07/09/15	800	07/09/15	800	0.00	0.0	1
*Temperature	CLIEN	07/09/15	800	07/09/15	800	0.00	0.0	1

Field PH/TEMP/D.O. Sampler or Courier/ at time of sampling or pick up  
Sample preservation and laboratory analysis conducted according to EPA  
40 CFR Part 136 TEST/ANALYST/TIME/COEF. VAR.\* QA PLAN filed with  
ADPC&E. Include replication.

KES = K. E. Sorrells  
JBS = James B. Sorrells  
CAS = Cecil A. Sorrells  
MKM = Mark Kyle McKenzie

KESII = K. E. Sorrells, II  
TJS = Todd J. Sanders  
JHD = J. Henry Dodson

Laboratory Number: 18302.0301 TKR





11701 I-30 Bldg 1, Ste 115 - Little Rock, AR 72209  
501-455-3233 Fax 501-455-6118

15 July 2015

City of Monticello  
City of Monticello  
P.O. Box 505  
Monticello, AR 71655

Project: West Pond - Effluent Sample

Project Number: 18302.0101

SDG Number: 1507103

Enclosed are the results of analyses for samples received by the laboratory on 07-Jul-15 15:33. If you have any questions concerning this report, please feel free to contact me.

Sample Receipt Information:

<u>Custody Seals</u>	✓
<u>Containers Correct</u>	✓
<u>COC/Labels Agree</u>	✓
<u>Received On Ice</u>	✓
Temperature on Receipt	3.0°C

Sincerely,

*Norma James / Teresa Coins*

---

Norma James and/or Teresa Coins  
Technical Director and/or QA Officer

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15 July 2015



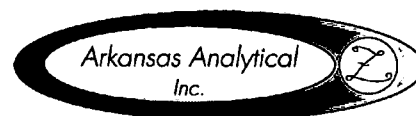
City of Monticello  
City of Monticello  
P.O. Box 505  
Monticello, AR 71655  
Project: West Pond - Effluent Sample  
Project Number: 18302.0101  
Date Received: 07-Jul-15 15:33

**ANALYTICAL RESULTS**

Lab Number: 1507103-01  
Sample Name: Outfall 001 Grab  
Date/Time Collected: 7/7/15 8:00  
Sample Matrix: Water

<u>Anions</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Nitrate + Nitrite	mg/L	< 0.500		7/8/15 13:55	[CALC]	300.0, 2.1-1993
Nitrate as N	mg/L	< 0.250		7/8/15 13:55	A507087	300.0, 2.1-1993
Nitrite as N	mg/L	< 0.250		7/8/15 13:55	A507087	300.0, 2.1-1993
<u>Total Metals</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Phosphorus	mg/L	0.121		7/14/15 17:04	A507174	200.7, Rev 4.4 (1994)
<u>Wet Chemistry</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Ammonia as N	mg/L	1.09		7/9/15 9:00	A507124	4500-NH3 B,D,C-1997
BOD-5	mg/L	5.96		7/8/15 9:00	A507076	5210 B-2001, Hach 10360
TSS	mg/L	34.0		7/8/15 11:00	A507089	2540 D-1997

15 July 2015



City of Monticello  
City of Monticello  
P.O. Box 505  
Monticello, AR 71655  
Project: West Pond - Effluent Sample  
Project Number: 18302.0101  
Date Received: 07-Jul-15 15:33

**QUALITY CONTROL RESULTS**

**Wet Chemistry -- Batch: A507076 (Water)**

Prepared: 07-Jul-15 16:23 By: KP -- Analyzed: 07-Jul-15 16:23 By: KP

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
BOD-5	<2.00 mg/L	99.0% / 104%	NA / NA		4.73%	

**Anions -- Batch: A507087 (Water)**

Prepared: 08-Jul-15 11:07 By: MB -- Analyzed: 08-Jul-15 19:10 By: MB

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Nitrate as N	<0.250 mg/L	97.8% / NA	97.6% / 97.7%		0.0512%	
Nitrite as N	<0.250 mg/L	95.9% / NA	96.2% / 95.9%		0.260%	

**Wet Chemistry -- Batch: A507089 (Water)**

Prepared: 07-Jul-15 16:00 By: KP -- Analyzed: 07-Jul-15 16:00 By: KP

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
TSS	<1.00 mg/L	102% / 105%	NA / NA		2.90%	

**Wet Chemistry -- Batch: A507124 (Water)**

Prepared: 09-Jul-15 09:00 By: RJH -- Analyzed: 09-Jul-15 09:00 By: RJH

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Ammonia as N	<0.500 mg/L	108% / NA	117% / 120%		2.19%	

**Total Metals -- Batch: A507174 (Water)**

Prepared: 14-Jul-15 12:05 By: HF -- Analyzed: 14-Jul-15 17:01 By: HF

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Phosphorus	<0.026 mg/L	95.6% / NA	97.7% / 99.8%		1.51%	

All Analysis performed according to EPA approved methodology when available:  
SW 846, Revised December, 1996; EPA 600/4-79-020, Revised March, 1983; Standard Methods.  
Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

Reviewed by: Norma James / Teresa Coins  
Norma James and/or Teresa Coins  
Technical Director and/or QA Officer

# SORRELLS RESEARCH ASSOCIATES, INC

8100 NATIONAL DRIVE, LITTLE ROCK, AR 72209

501-562-8139 800-331-8139

FAX 501-562-7025

## CHAIN OF CUSTODY RECORD

TURN AROUND TIME  
RUSH 24HR. 48 HR.  
5 DAY REG  
OTHER \_\_\_\_\_

FOR LAB/OFFICE USE ONLY

LAB # 18302.0101

CLIENT # \_\_\_\_\_

P.O.# \_\_\_\_\_

STANDARD METHODS PRESERVATION PER EPA 40 CFR

C4= COOL TO 4.C

S<2= SULFURIC ACID TO pH<2

N<2= NITRIC ACID TO pH<2

T= THIOSULFATE FOR DECHLORINATION

W= WINKLER AZIDE MODIFICATION

P= MEMBRANE ELECTRODE

NaOH= pH >12

11021242

NAME OF COMPANY, CITY, OR PROJECT

PROJECT NO:


SAMPLER(S) NAME: (PRINT)

Monticello West Plant

SAMPLE NO:	SAMPLE ID AND/OR COLLECTION LOCATION	START	END	COMP	FIELD ANALYSIS				D.O (W)	CONTAINER TYPE	ANALYSIS REQUIRED																		
		DATE/TIME	DATE/TIME	GRAB	pH	TEMP	FLOW	CL2	D.O(P)	PRESERVATIVE																			
	Outfall 001	7/7/15	0800		7.44	23.8			574	1 qt.	BOD, TSS -01																		
										500ml P s<2	T. Phos, NO3/NO2-N, NH3-01																		
										100 mL T	FC																		
										300 mL W	DO																		
										client	pH, temp, flow																		
METHOD OF SHIPMENT (CIRCLE)		FIELD CALIBRATION RECORD				<p>Samples Received at Arkansas Analytical Relinquished By: Sorrells</p> <p>Date/Time: 7-7-15 1533</p> <p>Received By: Amanda Faber</p> <table border="1"> <tr> <td>Custody Seals:</td> <td>Yes</td> <td>No</td> </tr> <tr> <td>Containers Correct:</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>COC/Labels Agree:</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Received on Ice:</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Temperature on Receipt:</td> <td>3°</td> <td></td> </tr> <tr> <td>Temperature Gun ID:</td> <td>HHT #2</td> <td></td> </tr> </table>						Custody Seals:	Yes	No	Containers Correct:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	COC/Labels Agree:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Received on Ice:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Temperature on Receipt:	3°		Temperature Gun ID:	HHT #2	
Custody Seals:	Yes	No																											
Containers Correct:	<input checked="" type="checkbox"/>	<input type="checkbox"/>																											
COC/Labels Agree:	<input checked="" type="checkbox"/>	<input type="checkbox"/>																											
Received on Ice:	<input checked="" type="checkbox"/>	<input type="checkbox"/>																											
Temperature on Receipt:	3°																												
Temperature Gun ID:	HHT #2																												
FED EX WALK IN SRA UPS OTHER	pH 7	7.00																											
	pH 4	4.01																											
	pH 10	10.00																											
	D.O																												
TYPE OF SAMPLE(S): (CIRCLE)						FIELD ANALYSIS CONDUCTED BY: (CIRCLE) SRA CLIENT																							
WATER SOIL W/W SLUDGE OTHER																													

RELINQUISHED BY: 

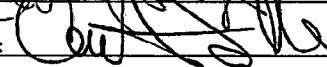
DATE/TIME: 7/7/15 800AM

RECEIVED BY:  7-7-15 11:54

DATE/TIME:

RELINQUISHED BY:

DATE/TIME:

RECEIVED BY(LAB):  7-7-15 1550

DATE/TIME:



11701 I-30 Bldg 1, Ste 115 - Little Rock, AR 72209  
501-455-3233 Fax 501-455-6118

16 July 2015

City of Monticello  
City of Monticello  
P.O. Box 505  
Monticello, AR 71655

Project: East Pond - Effluent Sample  
Project Number: 18301.0201  
SDG Number: 1507149

Enclosed are the results of analyses for samples received by the laboratory on 08-Jul-15 16:34. If you have any questions concerning this report, please feel free to contact me.

Sample Receipt Information:

<u>Custody Seals</u>	✓
<u>Containers Correct</u>	✓
<u>COC/Labels Agree</u>	✓
<u>Received On Ice</u>	✓
Temperature on Receipt	4.0°C

Sincerely,

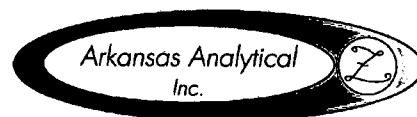
*Norma James / Teresa Coins*

---

Norma James and/or Teresa Coins  
Technical Director and/or QA Officer

*This document is intended only for the use of the person(s) to whom it is expressly addressed. This document may contain information that is confidential and legally privileged. If you are not the intended recipient, you are notified that any disclosure, distribution, or copying of this document is strictly prohibited. If you have received this document in error, please destroy.*

16 July 2015



City of Monticello  
City of Monticello  
P.O. Box 505  
Monticello, AR 71655  
Project: East Pond - Effluent Sample  
Project Number: 18301.0201  
Date Received: 08-Jul-15 16:34

**ANALYTICAL RESULTS**

Lab Number: 1507149-01  
Sample Name: Outfall 001 Grab  
Date/Time Collected: 7/8/15 8:00  
Sample Matrix: Water

<u>Anions</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Nitrate + Nitrite	mg/L	< 0.500		7/9/15 16:30	[CALC]	300.0, 2.1-1993
Nitrate as N	mg/L	< 0.250		7/9/15 16:30	A507127	300.0, 2.1-1993
Nitrite as N	mg/L	< 0.250		7/9/15 16:30	A507127	300.0, 2.1-1993
<u>Total Metals</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Phosphorus	mg/L	1.09		7/14/15 17:50	A507174	200.7, Rev 4.4 (1994)
<u>Wet Chemistry</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
BOD-5	mg/L	19.6		7/9/15 9:00	A507138	5210 B-2001, Hach 10360
TSS	mg/L	46.0		7/9/15 14:00	A507111	2540 D-1997

**QUALITY CONTROL RESULTS**

**Wet Chemistry -- Batch: A507111 (Water)**

Prepared: 09-Jul-15 14:00 By: KP -- Analyzed: 09-Jul-15 14:00 By: KP

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
TSS	<1.00 mg/L	106% / 107%	NA / NA		0.939%	

**Anions -- Batch: A507127 (Water)**

Prepared: 09-Jul-15 16:24 By: MB -- Analyzed: 09-Jul-15 19:15 By: Mel

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
Nitrate as N	<0.250 mg/L	95.2% / NA	95.4% / 94.6%		0.843%	
Nitrite as N	<0.250 mg/L	93.6% / NA	91.8% / 91.6%		0.164%	

**Wet Chemistry -- Batch: A507138 (Water)**

Prepared: 09-Jul-15 09:00 By: KP -- Analyzed: 09-Jul-15 09:00 By: KP

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
BOD-5	<2.00 mg/L	96.2% / 101%	NA / NA		4.62%	

**Total Metals -- Batch: A507174 (Water)**

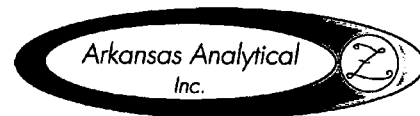
Prepared: 14-Jul-15 12:05 By: HF -- Analyzed: 14-Jul-15 17:01 By: HF

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
Phosphorus	<0.026 mg/L	95.6% / NA	97.7% / 99.8%		1.51%	

16 July 2015

City of Monticello  
City of Monticello  
P.O. Box 505  
Monticello, AR 71655  
Project: East Pond - Effluent Sample  
Project Number: 18301.0201  
Date Received: 08-Jul-15 16:34

---



All Analysis performed according to EPA approved methodology when available:  
SW 846, Revised December, 1996; EPA 600/4-79-020, Revised March, 1983; Standard Methods.  
Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

Reviewed by: Norma James / Teresa Coins  
Norma James and/or Teresa Coins  
Technical Director and/or QA Officer

# SORRELLS RESEARCH ASSOCIATES, INC

8100 NATIONAL DRIVE, LITTLE ROCK, AR 72209

501-562-8139 800-331-8139

FAX 501-562-7025

## CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24HR. 48 HR.

5 DAY REG

OTHER \_\_\_\_\_

FOR LAB/OFFICE USE ONLY

LAB # 18301.0201

CLIENT # \_\_\_\_\_

P.O.# \_\_\_\_\_

STANDARD METHODS PRESERVATION PER EPA 40 CFR

C4= COOL TO 4.C

S<2= SULFURIC ACID TO pH<2

N<2= NITRIC ACID TO pH<2

T= THIOSULFATE FOR DECHLORINATION

W= WINKLER AZIDE MODIFICATION

P= MEMBRANE ELECTRODE

NaOH= pH >12

NAME OF COMPANY, CITY, OR PROJECT

PROJECT NO:

SAMPLER(S) NAME: (PRINT)

110913K2

Monticello East Plant

SAMPLE NO:	SAMPLE ID AND/OR COLLECTION LOCATION	START	END	COMP	FIELD ANALYSIS				D.O (W)	CONTAINER TYPE	ANALYSIS REQUIRED						
		DATE/TIME	DATE/TIME	GRAB	pH	TEMP	FLOW	CL2	D.O(P)	PRESERVATIVE							
	Outfall 001	7/8/15 8AM			8.90	25.5			8.55	1 qt.	1507149.01 BOD, TSS NO <sub>3</sub> /NO <sub>2</sub> -01						
										500ml P s<2	T. Phos, NO <sub>3</sub> /NO <sub>2</sub> -N, NH <sub>3</sub> -01						
										100 mL T	FC 7 SRA						
										300 mL W	DO						
										client	pH, temp, flow						
METHOD OF SHIPMENT (CIRCLE)		FIELD CALIBRATION RECORD				Samples Received at Arkansas Analytical Relinquished By: Sorrells  Date/Time: 7-8-15, 1634  Received By: Sydney James											
FED EX WALK IN SRA UPS OTHER		pH 7	7.00														Custody Seals: Yes X No Containers Correct: X COC/Labels Agree: X Received on Ice: X Temperature on Receipt: 4°C Temperature Gun ID: HHT # 2
		pH 4	4.01														
		pH 10	10.00														
		D.O															
TYPE OF SAMPLE(S): (CIRCLE)						FIELD ANALYSIS CONDUCTED BY: (CIRCLE) SRA CLIENT											
WATER SOIL W/W SLUDGE OTHER																	

RELINQUISHED BY: 

DATE/TIME: 7/8/15 800

RECEIVED BY: 

DATE/TIME: 7-8-15 11:54

RELINQUISHED BY:

DATE/TIME:

RECEIVED BY(LAB): 

DATE/TIME: 7-8-15 1345





**SORRELLS RESEARCH  
LABORATORY AND FIELD SERVICES**

**WEF**



CHEMISTS  
ECOLOGISTS  
CONSULTANTS  
PLANNERS

8100 National Drive  
Little Rock, Arkansas 72209

Phone 501-562-8139  
Fax 501-562-7025  
Toll Free 1-800-331-8139

LABORATORY ANALYSIS

Date of Report: July 23, 2015  
Date Received : July 9, 2015

For: MONTICELLO, CITY OF  
505  
203 WEST GAINES  
MONTICELLO, AR 71655-

Job: NPDES MONITORING PERMIT NO: AR0021831 3/WK

Sample From: EAST PLANT / EFFLUENT OUTFALL

ANALYTE	RESULT	UNITS	METHOD
Biochemical oxygen demand	22.400	mg/Liter	5210 B
Total suspended solids	45.000	mg/Liter	2540D
*Fecal Coliform	820.000	#/100 ml	9222 D
*Dissolved oxygen (-0)	7.550	mg/Liter	4500 G
*pH <-H+>	8.600	units	4500 B
*Temperature	24.700	.C	2550 B

STANDARD METHODS, 20TH ED.; EPA METHODS, 3RD ED.

Collected by:

CLIENT on 07/09/15 at 8:00

Analysis by :

\*ALL TESTS PERFORMED BY ARKANSAS ANALYTICAL INC., EXCEPT WHERE NOTED BY (\*)

Sample preservation and Laboratory Analysis conducted according to EPA 40 CFR Part 136. Test/Analyst/Time/Coeff./Var./ QA plan filed with ADPC&E.

Includes 10 % replication and 10 % recovery studies by random selection.

Instruments maintained and calibrated and records kept.

See Attached.

Copies to:

MR. CHARLIE HAMMOCK

OPERATOR

P.O. BOX 505

203 WEST GAINES

MONTICELLO, AR 71657-

Laboratory Number: 18301.0301 TKR Reviewed By: K. E. Sorrells, M.S. [ ] ~~X~~



**SORRELLS RESEARCH  
LABORATORY AND FIELD SERVICES**

**WEF**



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8100 National Drive  
Little Rock, Arkansas 72209

Phone 501-562-8139  
Fax 501-562-7025  
Toll Free 1-800-331-8139

QUALITY ASSURANCE

July 9, 2015

The following QA represents SRA's Quality Assurance values for this report.

ANALYTE	ANALYST	BEG. DATE	BEG. TIME	FIN. DATE	FIN. TIME	S.D. %	SPK. REC.	#IN BAT
Arkansas Analytical Inc.	QA OF	/ /	0	/ /	0	0.00	0.0	0
*Fecal Coliform	CAS	07/09/15	1530	07/10/15	1300	0.00	0.0	2
*Dissolved oxygen (-0)	CLIEN	07/09/15	800	07/09/15	800	0.00	0.0	1
*pH <-H+>	CLIEN	07/09/15	800	07/09/15	800	0.00	0.0	1
*Temperature	CLIEN	07/09/15	800	07/09/15	800	0.00	0.0	1

Field PH/TEMP/D.O. Sampler or Courier/ at time of sampling or pick up  
Sample preservation and laboratory analysis conducted according to EPA  
40 CFR Part 136 TEST/ANALYST/TIME/COEF. VAR.\* QA PLAN filed with  
ADPC&E. Include replication.

KES = K. E. Sorrells  
JBS = James B. Sorrells  
CAS = Cecil A. Sorrells  
MKM = Mark Kyle McKenzie

KESII = K. E. Sorrells, II  
TJS = Todd J. Sanders  
JHD = J. Henry Dodson

Laboratory Number: 18301.0301 TKR



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Little Rock, Arkansas 72209

Phone 501-562-8139  
Fax 501-562-7025  
Toll Free 1-800-331-8139

LABORATORY ANALYSIS

Date of Report: July 23, 2015  
Date Received : July 8, 2015

For: MONTICELLO, CITY OF  
505

203 WEST GAINES  
MONTICELLO, AR 71655-

Job: NPDES MONITORING PERMIT NO: AR0021831 3/WK

Sample From: EAST PLANT / EFFLUENT OUTFALL

ANALYTE	RESULT	UNITS	METHOD
Biochemical oxygen demand	19.600	mg/Liter	5210 B
Total suspended solids	46.000	mg/Liter	2540D
Nitrate + nitrite as N	< 0.500	mg/Liter	4110 B
Phosphorus, total	1.090	mg/Liter	4500 E
*Fecal Coliform	560.000	#/100 ml	9222 D
*Dissolved oxygen (-0)	8.950	mg/Liter	4500 G
*pH <-H+>	8.900	units	4500 B
*Temperature	25.500	.C	2550 B

STANDARD METHODS, 20TH ED.; EPA METHODS, 3RD ED.

Collected by:

CLIENT on 07/08/15 at 8:00

Analysis by :

\*ALL TESTS PERFORMED BY ARKANSAS ANALYTICAL INC., EXCEPT WHERE NOTED BY (\*)

Sample preservation and Laboratory Analysis conducted according to EPA 40 CFR Part 136. Test/Analyst/Time/Coeff./Var./ QA plan filed with ADPC&E.

Includes 10 % replication and 10 % recovery studies by random selection.

Instruments maintained and calibrated and records kept.

See Attached.

Copies to:

MR. CHARLIE HAMMOCK

OPERATOR

P.O. BOX 505

203 WEST GAINES

MONTICELLO, AR 71657-

Laboratory Number: 18301.0201 TKR Reviewed By: K. E. Sorrells, M.S. [ ]



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Toll Free 1-800-331-8139

**QUALITY ASSURANCE**

July 8, 2015

The following QA represents SRA's Quality Assurance values for this report.

ANALYTE	ANALYST	BEG. DATE	BEG. TIME	FIN. DATE	FIN. TIME	S.D. %	SPK. REC.	#IN BAT
Arkansas Analytical Inc.	QA OF	/ /	0	/ /	0	0.00	0.0	0
*Fecal Coliform	CAS	07/08/15	1350	07/09/15	1520	0.00	0.0	2
*Dissolved oxygen (-0 )	CLIEN	07/08/15	800	07/08/15	800	0.00	0.0	1
*pH <-H+>	CLIEN	07/08/15	800	07/08/15	800	0.00	0.0	1
*Temperature	CLIEN	07/08/15	800	07/08/15	800	0.00	0.0	1

Field PH/TEMP/D.O. Sampler or Courier/ at time of sampling or pick up  
Sample preservation and laboratory analysis conducted according to EPA  
40 CFR Part 136 TEST/ANALYST/TIME/COEF. VAR.\* QA PLAN filed with  
ADPC&E. Include replication.

KES = K. E. Sorrells  
JBS = James B. Sorrells  
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KESII = K. E. Sorrells, II  
TJS = Todd J. Sanders  
JHD = J. Henry Dodson

Laboratory Number: 18301.0201 TKR

CITY OF MONTICELLO  
P.O. 505  
MONTICELLO, AR 71657

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ADEQ  
DMR Division  
5301 Northshore  
North Little Rock, AR 72118

