



8100 National Dr. - Little Rock, AR 72209
501-455-3233 Fax 501-455-6118

15 August 2023

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396

Project: Lagoon Discharge Sample
Project Number: August 2023
SDG Number: 2308192

Enclosed are the results of analyses for samples received by the laboratory on 09-Aug-23 15:12. 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	1.0°C

Sincerely,

A handwritten signature in blue ink that reads "Norma James".

Norma James
Technical Director

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.

15 August 2023



Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: August 2023
Date Received: 09-Aug-23 15:12

ANALYTICAL RESULTS

Lab Number: 2308192-01
Sample Name: Lagoon Discharge Grab (Wynne)
Date/Time Collected: 8/9/23 10:00
Sample Matrix: Water

<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	3.13		8/11/23 8:05	B308224	SM 4500-NH3 B,D,C-2011
Fecal Coliforms	MPN/100 mL	20		8/9/23 15:20	B308215	IDEXX Colilert-18
TSS	mg/L	60.0		8/14/23 9:05	B308213	SM 2540 D-2015
CBOD	mg/L	13.4		8/10/23 7:08	B308201	SM 5210B-2016

ANALYTICAL RESULTS

Lab Number: 2308192-02
Sample Name: Lagoon Discharge Field Analysis (AR Analytical)
Date/Time Collected: 8/9/23 11:30
Sample Matrix: Water

<u>Field Analyses</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Dissolved Oxygen	mg/L	4.85		8/9/23 11:34	B308259	SM 4500-O G-2011
pH	S.U.	7.97		8/9/23 11:30	B308257	SM 4500-H+ B-2011
Temperature	°C	27.2		8/9/23 11:30	B308258	SM 2550B-2000

15 August 2023



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 121 East Merriman
 Wynne, AR 72396
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 Project Number: August 2023
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QUALITY CONTROL RESULTS

Wet Chemistry -- Batch: B308201 (Water)

Prepared: 10-Aug-23 07:08 By: MB -- Analyzed: 10-Aug-23 07:08 By: MB

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
CBOD	<2.00 mg/L	95.0% / 97.4%	NA / NA		2.45%	

Wet Chemistry -- Batch: B308213 (Water)

Prepared: 14-Aug-23 09:05 By: MH -- Analyzed: 14-Aug-23 09:05 By: MH

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
TSS	<1.00 mg/L	92.0% / 91.0%	NA / NA		1.09%	

Wet Chemistry -- Batch: B308215 (Water)

Prepared: 09-Aug-23 15:20 By: KJ -- Analyzed: 09-Aug-23 15:20 By: KJ

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Fecal Coliforms	<1 MPN/100 mL	NA / NA	NA / NA	ND MPN/100 mL	NA	

Wet Chemistry -- Batch: B308224 (Water)

Prepared: 11-Aug-23 08:05 By: KJ -- Analyzed: 11-Aug-23 08:05 By: KJ

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Ammonia as N	<0.500 mg/L	87.4% / NA	93.1% / 86.6%		6.85%	

Field Analyses -- Batch: B308257 (Water)

Prepared: 09-Aug-23 09:12 By: MH -- Analyzed: 09-Aug-23 09:12 By: MH

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
pH (Field)	NA	100% / 100%	NA / NA		0.285%	

Field Analyses -- Batch: B308258 (Water)

Prepared: 09-Aug-23 13:32 By: MH -- Analyzed: 09-Aug-23 13:32 By: MH

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Temperature (Field)	NA	NA / NA	NA / NA	27.5 °C	0.00%	

Field Analyses -- Batch: B308259 (Water)

Prepared: 09-Aug-23 13:36 By: MH -- Analyzed: 09-Aug-23 13:36 By: MH

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Dissolved Oxygen (Field)	NA	NA / NA	NA / NA	6.63 mg/L	0.151%	

15 August 2023



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121 East Merriman
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Project: Lagoon Discharge Sample
Project Number: August 2023
Date Received: 09-Aug-23 15:12

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.

A handwritten signature in blue ink that reads "Norma James". The signature is written in a cursive style and is positioned above a horizontal line.

Reviewed by: _____
Norma James
Technical Director



84100 National Dr.
 Little Rock, AR 72209
 PHONE: 501-455-3233
 FAX: 501-455-6118

CHAIN OF CUSTODY RECORD

CLIENT INFORMATION		Project Description		Turnaround Time		Preservation Codes:	
Wynne Water Utilities 121 East Merriman Wynne, AR 72396		Lagoon Discharge Sample Weekly Sample Reporting Information Telephone: 870-238-2751 Fax: 870-238-2044 Email: jweaver.www@gmail.com		1 Day (100%) 2 Day (50%) 3 Day (25%) 5 Day (Routine)		1. Cool, 6 Degrees Centigrade 2. Sulfuric Acid (H ₂ SO ₄), pH < 2 3. Nitric Acid (HNO ₃), pH < 2 4. Thiosulfate for Dechlorination 5. Hydrochloric Acid(HCl) 6. Sodium Hydroxide (NaOH), pH > 12	
Attn: Josh Weaver		Preservative Code: P Bottle Type: P		TEST PARAMETERS		Bottle Type Code G = Glass, P = Plastic V = Septum, A = Amber	

Sampler(s) Signature: <i>[Signature]</i>		Sampler(s) Printed: <i>Josh Weaver</i>		Arkansas Analytical Work Order Number: 2308192							
Field Number	SAMPLE COLLECTION Dates/ Times	Grab	Comp	Number of Bottles	Sample Matrix	IDENTIFICATION/ DESCRIPTION	Field (pH, D.O., Temperature)	CBOD, TSS	Ammonia	Fecal Coliform	Chlorine
	8/19 1130	X		3	Water	Lagoon Discharge Grab (Wynne)		X	X	X	
ONSITE MEASUREMENTS by Arkansas Analytical -- DATE: 8/19/23											
Sample	Duplicate	QC	QC Duplicate								
pH (S.U.)	7.97	7.97	9.01	9.03							
Time	1130	1132	9:10	9:12							
Temperature (°C)	27.2	27.2									
Time	1130	1132									
Dissolved Oxygen (mg/L)	4.85	4.86									
Time	1134	1136									
Field Calibration Record -- DATE: 8/19/23											
pH / Time		D.O.									
		Time									
		Slope									

1. Relinquished by: (Signature) <i>[Signature]</i>		Date/Time: 8/19		2. Received by: (Signature) <i>[Signature]</i>		1120		8/19/23	
3. Relinquished by: (Signature)		Date/Time: 1512 8/19/23		4. Received by lab: (Signature) SYDNEY JAMES		1. CUSTODY SEALS: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		2. CONTAINERS CORRECT: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Revision: 3		4444		5. TEMPERATURE ON RECEIPT: 1 °C		6. TEMPERATURE GUN ID: HHT# 5		REMARKS / SAMPLE COMMENTS	



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23 August 2023

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396

Project: Lagoon Discharge Sample
Project Number: August 2023
SDG Number: 2308362

Enclosed are the results of analyses for samples received by the laboratory on 16-Aug-23 15:25. 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,

A handwritten signature in blue ink that reads "Norma James".

Norma James
Technical Director

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23 August 2023



Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: August 2023
Date Received: 16-Aug-23 15:25

ANALYTICAL RESULTS

Lab Number: 2308362-01
Sample Name: Lagoon Discharge Grab (Wynne)
Date/Time Collected: 8/16/23 10:00
Sample Matrix: Water

<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	6.33		8/18/23 10:20	B308404	SM 4500-NH3 B,D,C-2011
Fecal Coliforms	MPN/100 mL	100		8/16/23 15:30	B308373	IDEXX Colilert-18
TSS	mg/L	51.5		8/17/23 16:20	B308312	SM 2540 D-2015
CBOD	mg/L	13.2		8/17/23 7:58	B308349	SM 5210B-2016

ANALYTICAL RESULTS

Lab Number: 2308362-02
Sample Name: Lagoon Discharge Field Analysis (AR Analytical)
Date/Time Collected: 8/16/23 12:10
Sample Matrix: Water

<u>Field Analyses</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Dissolved Oxygen	mg/L	16.2		8/16/23 12:15	B308423	SM 4500-O G-2011
pH	S.U.	8.98		8/16/23 12:10	B308418	SM 4500-H+ B-2011
Temperature	°C	28.6		8/16/23 12:10	B308420	SM 2550B-2000

Josh Weaver
 Wynne Water Utilities
 121 East Merriman
 Wynne, AR 72396
 Project: Lagoon Discharge Sample
 Project Number: August 2023
 Date Received: 16-Aug-23 15:25

QUALITY CONTROL RESULTS
Wet Chemistry -- Batch: B308312 (Water)

Prepared: 17-Aug-23 16:40 By: MH -- Analyzed: 17-Aug-23 16:40 By: MH

<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	92.0% / 97.0%	NA / NA		5.29%	

Wet Chemistry -- Batch: B308349 (Water)

Prepared: 17-Aug-23 07:58 By: NL -- Analyzed: 17-Aug-23 07:58 By: NL

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
CBOD	<2.00 mg/L	109% / 110%	NA / NA		0.808%	

Wet Chemistry -- Batch: B308373 (Water)

Prepared: 16-Aug-23 15:30 By: KJ -- Analyzed: 16-Aug-23 15:30 By: KJ

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
Fecal Coliforms	<1 MPN/100 mL	NA / NA	NA / NA	ND MPN/100 mL	NA	

Wet Chemistry -- Batch: B308404 (Water)

Prepared: 18-Aug-23 10:20 By: KJ -- Analyzed: 18-Aug-23 10:20 By: KJ

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
Ammonia as N	<0.500 mg/L	80.4% / NA	87.4% / 81.0%		7.60%	

Field Analyses -- Batch: B308418 (Water)

Prepared: 16-Aug-23 08:52 By: MH -- Analyzed: 16-Aug-23 08:52 By: MH

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
pH (Field)	NA	101% / 101%	NA / NA		0.141%	

Field Analyses -- Batch: B308420 (Water)

Prepared: 16-Aug-23 14:13 By: MH -- Analyzed: 16-Aug-23 14:13 By: MH

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
Temperature (Field)	NA	NA / NA	NA / NA	28.5 °C	0.00%	

Field Analyses -- Batch: B308423 (Water)

Prepared: 16-Aug-23 14:16 By: MH -- Analyzed: 16-Aug-23 14:16 By: MH

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
Dissolved Oxygen (Field)	NA	NA / NA	NA / NA	6.13 mg/L	0.163%	

23 August 2023



Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: August 2023
Date Received: 16-Aug-23 15:25

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.

A handwritten signature in blue ink that reads "Norma James".

Reviewed by: _____
Norma James
Technical Director



8100 National Dr.
 Little Rock, AR 72209
 PHONE: 501-455-3233
 FAX: 501-455-6118

CHAIN OF CUSTODY RECORD

CLIENT INFORMATION			Project Description			Turnaround Time			Preservation Codes:					
Wynne Water Utilities 121 East Merriman Wynne, AR 72396			Lagoon Discharge Sample Weekly Sample Reporting Information			1 Day (100%) 2 Day (50%) 3 Day (25%) 5 Day (Routine)			1. Cool, 6 Degrees Centigrade 2. Sulfuric Acid (H ₂ SO ₄), pH < 2 3. Nitric Acid (HNO ₃), pH < 2 4. Thiosulfate for Dechlorination 5. Hydrochloric Acid (HCl) 6. Sodium Hydroxide (NaOH), pH > 12					
Aftn: Josh Weaver			Telephone: 870-238-2751 Fax: 870-238-2044 Email: jweaver.vvu@gmail.com			Preservative Code: Bottle Type:			TEST PARAMETERS 1 1,2 1,4 P P P Field (pH, D.O., Temperature) CBOD, TSS Ammonia Fecal Coliform					
Sampler(s) Signature: <i>Josh Weaver</i>			Sampler(s) Printed: <i>Josh Weaver</i>			Sample Matrix			Bottle Type Code G = Glass, P = Plastic V = Septum, A = Amber					
Field Number	Date/s	Time/s	Grab	Comp	Number of Bottles	SAMPLE IDENTIFICATION/ DESCRIPTION								
	8/16	10 AM	X		3	Water Lagoon Discharge Grab (Wynne)								
	8/16/23	12:10	X		0	Water Lagoon Discharge Field Analysis (AR Analytical)								
ONSITE MEASUREMENTS by Arkansas Analytical -- DATE: 8/16/23														
			Sample	Duplicate	QC	QC Duplicate								
			pH (S.U.)	8.98	8.58	7.08	7.09							
			Time	12:10	12:13			Field Calibration Record -- DATE:						
			Temperature (°C)	28.6	28.6			pH / Time D.O. Chlorine						
			Time	12:10	12:13			4 Time QC Time						
			Dissolved Oxygen (mg/L)	16.20	16.24			7 1						
			Time	12:15	12:17			10 Slope 2						
1. Relinquished by: (Signature) <i>Josh Weaver</i>			Date/Time 8/16			2. Received by: (Signature) <i>Amanda Forbush</i>			SAMPLE CONDITION UPON RECEIPT IN LAB					
3. Relinquished by: (Signature) <i>Josh Weaver</i>			Date/Time 8/16/23			1. CUSTODY SEALS: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 2. CONTAINERS CORRECT: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 3. COC/LABELS AGREE: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 4. RECEIVED ON ICE: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 5. TEMPERATURE ON RECEIPT: 3 °C 6. TEMPERATURE GUN ID: HHT# 5								
Revision 3			14446			FOR COMPLETION BY LAB ONLY								



8100 National Dr. - Little Rock, AR 72209
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30 August 2023

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396

Project: Lagoon Discharge Sample
Project Number: August 2023
SDG Number: 2308522

Enclosed are the results of analyses for samples received by the laboratory on 23-Aug-23 15:13. 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,

A handwritten signature in blue ink that reads "Norma James".

Norma James
Technical Director

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30 August 2023



Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: August 2023
Date Received: 23-Aug-23 15:13

ANALYTICAL RESULTS

Lab Number: 2308522-01
Sample Name: Lagoon Discharge Grab (Wynne)
Date/Time Collected: 8/23/23 10:00
Sample Matrix: Water

<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	1.61		8/25/23 8:20	B308545	SM 4500-NH3 B,D,C-2011
Fecal Coliforms	MPN/100 mL	88		8/23/23 15:30	B308532	IDEXX Colilert-18
TSS	mg/L	88.0		8/25/23 11:00	B308544	SM 2540 D-2015
CBOD	mg/L	< 2.00		8/25/23 7:51	B308540	SM 5210B-2016

ANALYTICAL RESULTS

Lab Number: 2308522-02
Sample Name: Lagoon Discharge Field Analysis (AR Analytical)
Date/Time Collected: 8/23/23 11:50
Sample Matrix: Water

<u>Field Analyses</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Dissolved Oxygen	mg/L	17.0		8/23/23 11:55	B308631	SM 4500-O G-2011
pH	S.U.	9.04		8/23/23 11:50	B308629	SM 4500-H+ B-2011
Temperature	°C	32.1		8/23/23 11:50	B308630	SM 2550B-2000

30 August 2023



Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: August 2023
Date Received: 23-Aug-23 15:13

QUALITY CONTROL RESULTS

Wet Chemistry -- Batch: B308532 (Water)

Prepared: 23-Aug-23 15:30 By: KJ -- Analyzed: 23-Aug-23 15:30 By: KJ

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Fecal Coliforms	<1 MPN/100 mL	NA / NA	NA / NA	ND MPN/100 mL	NA	

Wet Chemistry -- Batch: B308540 (Water)

Prepared: 25-Aug-23 07:51 By: kd -- Analyzed: 25-Aug-23 07:51 By: MB

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
CBOD	<2.00 mg/L	107% / 116%	NA / NA		8.42%	

Wet Chemistry -- Batch: B308544 (Water)

Prepared: 25-Aug-23 11:00 By: MH -- Analyzed: 25-Aug-23 11:00 By: MH

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
TSS	<1.00 mg/L	94.0% / 91.0%	NA / NA		3.24%	

Wet Chemistry -- Batch: B308545 (Water)

Prepared: 25-Aug-23 08:20 By: KJ -- Analyzed: 25-Aug-23 08:20 By: KJ

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Ammonia as N	<0.500 mg/L	91.7% / NA	93.3% / 96.6%		3.16%	

Field Analyses -- Batch: B308629 (Water)

Prepared: 23-Aug-23 09:12 By: MH -- Analyzed: 23-Aug-23 09:12 By: MH

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
pH (Field)	NA	101% / 101%	NA / NA		0.142%	

Field Analyses -- Batch: B308630 (Water)

Prepared: 23-Aug-23 13:53 By: MH -- Analyzed: 23-Aug-23 13:53 By: MH

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Temperature (Field)	NA	NA / NA	NA / NA	31.0 °C	0.00%	

Field Analyses -- Batch: B308631 (Water)

Prepared: 13-Aug-23 16:05 By: MH -- Analyzed: 13-Aug-23 16:05 By: MH

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Dissolved Oxygen (Field)	NA	NA / NA	NA / NA	6.05 mg/L	0.165%	

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Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
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Date Received: 23-Aug-23 15:13

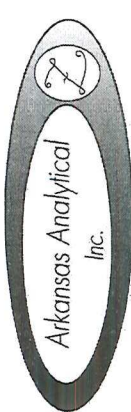


All Analysis performed according to EPA approved methodology when available :
SW 846, Revised December, 1996; EPA 600/4-79-020, Revised March, 1983; Standard Methods.
Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

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Reviewed by: _____

Norma James
Technical Director



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CHAIN OF CUSTODY RECORD

CLIENT INFORMATION			Project Description			Turnaround Time		Preservation Codes:						
Wynne Water Utilities 121 East Merriman Wynne, AR 72396 Attn: Josh Weaver Telephone: 870-238-2751 Fax: 870-238-2044 Email: jweaver.wvu@gmail.com			Lagoon Discharge Sample Weekly Sample Reporting Information Telephone: 870-238-2751 Fax: 870-238-2044 Email: jweaver.wvu@gmail.com			1 Day (100%) 2 Day (50%) 3 Day (25%) 5 Day (Routine)		1. Cool, 6 Degrees Centigrade 2. Sulfuric Acid (H ₂ SO ₄), pH < 2 3. Nitric Acid (HNO ₃), pH < 2 4. Thiosulfate for Dechlorination 5. Hydrochloric Acid (HCl) 6. Sodium Hydroxide (NaOH), pH > 12						
TEST PARAMETERS			Bottle Type Code											
			G = Glass; P = Plastic V = Septum; A = Amber											
Sampler(s) Signature <i>Josh Weaver</i> Date/s 8/23 Time/s 10 AM 8/23/23 1150			Sampler(s) Printed: <i>Josh Weaver</i> Number of Bottles 3 Comp 0 Grab X X X X			Sample Matrix Water IDENTIFICATION/ DESCRIPTION Lagoon Discharge Grab (Wynne) Lagoon Discharge Field Analysis (AR Analytical)			Field (pH, D.O., Temperature) Ammonia Fecal Coliform CROD, TSS X X X			Bottle Type Code G = Glass; P = Plastic V = Septum; A = Amber Arkansas Analytical Work Order Number: 2308512		
Sampler(s) Signature <i>Josh Weaver</i> Date/Time 8/23 Time 1150			Onsite Measurements by Arkansas Analytical -- DATE: 8/23/23 Sample Duplicate QC pH (S.U.) 904 905 906 907 Time 1150 1153 910 912 Temperature (°C) 32.1 32.1 Dissolved Oxygen (mg/L) 1150 1153 Time 17:0 17:01 1158 1159			Field Calibration Record -- DATE: 8/23/23 Chlorite pH / Time 4 D.O. 910 Time 910 Slope 1 9700 1004			REMARKS / SAMPLE COMMENTS					
Relinquished by: (Signature) <i>Josh Weaver</i> Date/Time 8/23			Relinquished by: (Signature) <i>Josh Weaver</i> Date/Time 8/23 1513 8/23/23			Received by: (Signature) <i>Howard</i> Date/Time 8/23			Received by: (Signature) <i>Howard</i> Date/Time 8/23			1. CUSTODY SEALS: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 2. CONTAINERS CORRECT: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 3. COC/LABELS AGREE: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 4. RECEIVED ON ICE: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 5. TEMPERATURE ON RECEIPT: °C 5 6. TEMPERATURE GUN ID: HHT#		
Revision 3 4/4/46			FOR COMPLETION BY LAB ONLY											



8100 National Dr. - Little Rock, AR 72209
501-455-3233 Fax 501-455-6118

06 September 2023

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396

Project: Lagoon Discharge Sample
Project Number: August 2023
SDG Number: 2308633

Enclosed are the results of analyses for samples received by the laboratory on 30-Aug-23 14:50. 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,

A handwritten signature in blue ink that reads "Norma James".

Norma James
Technical Director

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Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: August 2023
Date Received: 30-Aug-23 14:50

ANALYTICAL RESULTS

Lab Number: 2308633-01
Sample Name: Lagoon Discharge Grab (Wynne)
Date/Time Collected: 8/30/23 10:00
Sample Matrix: Water

<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	7.44		9/1/23 14:22	B309007	SM 4500-NH3 B,D,C-2011
Fecal Coliforms	MPN/100 mL	160		8/30/23 14:50	B308691	IDEXX Colilert-18
TSS	mg/L	22.0		8/31/23 15:50	B308666	SM 2540 D-2015
CBOD	mg/L	15.8		9/1/23 8:10	B309002	SM 5210B-2016

ANALYTICAL RESULTS

Lab Number: 2308633-02
Sample Name: Lagoon Discharge Field Analysis (AR Analytical)
Date/Time Collected: 8/30/23 11:25
Sample Matrix: Water

<u>Field Analyses</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Dissolved Oxygen	mg/L	19.6		8/30/23 11:30	B309033	SM 4500-O G-2011
pH	S.U.	8.62		8/30/23 11:25	B309031	SM 4500-H+ B-2011
Temperature	°C	28.3		8/30/23 11:25	B309032	SM 2550B-2000

Josh Weaver
 Wynne Water Utilities
 121 East Merriman
 Wynne, AR 72396
 Project: Lagoon Discharge Sample
 Project Number: August 2023
 Date Received: 30-Aug-23 14:50

QUALITY CONTROL RESULTS
Wet Chemistry -- Batch: B308666 (Water)

Prepared: 31-Aug-23 15:50 By: MH -- Analyzed: 31-Aug-23 15:50 By: MH

<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	90.0% / 93.0%	NA / NA		3.28%	

Wet Chemistry -- Batch: B308691 (Water)

Prepared: 30-Aug-23 14:50 By: KJ -- Analyzed: 30-Aug-23 14:50 By: KJ

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
Fecal Coliforms	<1 MPN/100 mL	NA / NA	NA / NA	140 MPN/100 mL	13.5%	

Wet Chemistry -- Batch: B309002 (Water)

Prepared: 01-Sep-23 08:10 By: MB -- Analyzed: 01-Sep-23 08:10 By: kd

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
CBOD	<2.00 mg/L	119% / 115%	NA / NA		3.77%	

Wet Chemistry -- Batch: B309007 (Water)

Prepared: 01-Sep-23 08:44 By: CNW -- Analyzed: 01-Sep-23 14:22 By: CNW

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
Ammonia as N	<0.500 mg/L	102% / NA	109% / 108%		0.791%	

Field Analyses -- Batch: B309031 (Water)

Prepared: 30-Aug-23 09:02 By: MH -- Analyzed: 30-Aug-23 09:02 By: MH

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
pH (Field)	NA	100% / 100%	NA / NA		0.00%	

Field Analyses -- Batch: B309032 (Water)

Prepared: 30-Aug-23 13:28 By: MH -- Analyzed: 30-Aug-23 13:28 By: MH

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
Temperature (Field)	NA	NA / NA	NA / NA	28.5 °C	0.00%	

Field Analyses -- Batch: B309033 (Water)

Prepared: 30-Aug-23 13:32 By: MH -- Analyzed: 30-Aug-23 13:32 By: MH

<u>Analyte</u>	<u>BLK</u>	<u>LCS / LCSD</u>	<u>MS / MSD</u>	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
Dissolved Oxygen (Field)	NA	NA / NA	NA / NA	6.42 mg/L	0.312%	

06 September 2023



Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: August 2023
Date Received: 30-Aug-23 14:50

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.

A handwritten signature in blue ink that reads "Norma James". The signature is written in a cursive style and is positioned above a horizontal line.

Reviewed by: _____
Norma James
Technical Director



8100 National Dr.
 Little Rock, AR 72209
 PHONE: 501-455-3233
 FAX: 501-455-6118

CHAIN OF CUSTODY RECORD

CLIENT INFORMATION		Project Description		Turnaround Time		Preservation Codes:						
Wynne Water Utilities 121 East Merriman Wynne, AR 72396		Lagoon Discharge Sample Weekly Sample		1 Day (100%) 2 Day (50%) 3 Day (25%)		1. Cool, 6 Degrees Centigrade 2. Sulfuric Acid (H ₂ SO ₄), pH < 2 3. Nitric Acid (HNO ₃), pH < 2 4. Thiosulfate for Dechlorination 5. Hydrochloric Acid(HCl) 6. Sodium Hydroxide (NaOH), pH > 12						
Attn: Josh Weaver		Telephone: 870-238-2751 Fax: 870-238-2044		5 Day (Routine)		TEST PARAMETERS						
Email: jweaver.wvu@gmail.com		Preservative Code: P Bottle Type: P		1, 1, 1, 2, 1, 4		Boyle Type Code G = Glass, P = Plastic V = Septum, A = Amber						
Sampler(s) Signature: <i>Josh Weaver</i>		Sampler(s) Printed: <i>Josh Weaver</i>		SAMPLE IDENTIFICATION/ DESCRIPTION		Arkansas Analytical Work Order Number: 2308633						
Field Number	SAMPLE COLLECTION Dates	Times	Grab	Comp	Number of Bottles	Sample Matrix	Field (pH, D.O., Temperature)	CBOD, TSS	Ammonia	Fecal Coliform		
	8/30	1044	X		3	Water		X	X	X		
	8/30	1125	X		0	Water						
Lagoon Discharge Grab (Wynne) Lagoon Discharge Field Analysis (AR Analytical)												
ONSITE MEASUREMENTS by Arkansas Analytical -- DATE: 8/30/23												
pH (S.U.)			Sample		Duplicate		QC		QC Duplicate			
Time			8:12		8:13		7:03		7:03			
Temperature (°C)			11:25		11:28		9:00		9:02			
Time			28:33		28:33							
Dissolved Oxygen (mg/L)			11:25		11:28							
Time			19:60		19:62							
Time			11:30		11:32							
SAMPLE CONDITION UPON RECEIPT IN LAB 1. CUSTODY SEALS: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 2. CONTAINERS CORRECT: <input type="checkbox"/> Yes <input type="checkbox"/> No 3. COC/LABELS AGREE: <input type="checkbox"/> Yes <input type="checkbox"/> No 4. RECEIVED ON ICE: <input type="checkbox"/> Yes <input type="checkbox"/> No 5. TEMPERATURE ON RECEIPT: 3 °C 6. TEMPERATURE GUN ID: HHT# 5												
1. Relinquished by: (Signature)						2. Received by: (Signature)						
<i>Josh Weaver</i>						<i>Josh Weaver</i>						
Date/Time: 8/30						Date/Time: 8/30						
3. Relinquished by: (Signature)						4. Received by lab: (Signature)						
<i>Josh Weaver</i>						<i>Supriya Datta</i>						
Date/Time: 8/30/23						Date/Time: 8/30/23						
Revision 3						Revision 3						
14446						14446						
REMARKS / SAMPLE COMMENTS												
Field Calibration Record -- DATE: 8/30/23												
pH / Time			D.O.			Chlorine						
4			Time			QC Time						
7			1			1						
10			2			2						
8:55			Slope									