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501-455-3233 Fax 501-455-6118

07 March 2024

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

Project: Lagoon Discharge Sample  
Project Number: February 2024  
SDG Number: 2402659

Enclosed are the results of analyses for samples received by the laboratory on 28-Feb-24 15:15. 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	2.0°C

Sincerely,

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

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Norma James  
Technical Director

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**CASE NARRATIVE**

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Sample Delivery Group – 2402659

**One OR more of the qualifiers described below may appear in this report. Qualifiers in RED apply to this SDG (Sample Delivery Group).**

**BOD/CBOD QUALIFIERS:**

<u>Qualifier</u>	<u>Description</u>
B-01	Method requirements for oxygen depletion failed.
B-02	Method requirements for residual oxygen failed.
B-03	Depletion of the blank exceeded method requirements.
B-04	Test replicates show a >30% difference between the highest and lowest values.
B-06	Seed correction failed to meet method requirements.
Cl-1	Estimated result due to treatment for excessive chlorine.
%D2 / E5	Laboratory Control Spike (LCS) and/or Laboratory Control Spike Duplicate (LCSD) failed to recover with acceptance criteria (%D2). Associated results were qualified as "estimated" (E5).

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**ANALYTICAL RESULTS**

Lab Number: 2402659-01  
Sample Name: Lagoon Discharge Grab (Wynne)  
Date/Time Collected: 2/28/24 11:00  
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	11.8		2/29/24 8:15	B402633	SM 4500-NH3 B,D,C-2011
Fecal Coliforms	MPN/100 mL	1		2/28/24 15:15	B402659	IDEXX Colilert-18
TSS	mg/L	1.50		3/1/24 8:30	B402660	SM 2540 D-2015
CBOD	mg/L	< 2.00	B-01	3/1/24 7:50	B403001	SM 5210B-2016

**ANALYTICAL RESULTS**

Lab Number: 2402659-02  
Sample Name: Lagoon Discharge Field Analysis (AR Analytical)  
Date/Time Collected: 2/28/24 12:00  
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	8.06		2/28/24 12:00	B403032	SM 4500-O G-2011
pH	S.U.	7.50		2/28/24 12:00	B403030	SM 4500-H+ B-2011
Temperature	°C	14.8		2/28/24 12:00	B403031	SM 2550B-2000

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**QUALITY CONTROL RESULTS**

**Wet Chemistry -- Batch: B402633 (Water)**

Prepared: 29-Feb-24 08:09 By: KJ -- Analyzed: 29-Feb-24 08:09 By: KJ

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Ammonia as N	<0.500 mg/L	85.4% / NA	79.8% / 77.9%		2.05%	

**Wet Chemistry -- Batch: B402659 (Water)**

Prepared: 28-Feb-24 15:15 By: KJ -- Analyzed: 28-Feb-24 15:15 By: KJ

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Fecal Coliforms	<1 MPN/100 mL	NA / NA	NA / NA	19 MPN/100 mL	12.1%	

**Wet Chemistry -- Batch: B402660 (Water)**

Prepared: 01-Mar-24 08:30 By: MH -- Analyzed: 01-Mar-24 08:30 By: MH

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
TSS	<1.00 mg/L	87.0% / 86.0%	NA / NA		1.16%	

**Wet Chemistry -- Batch: B403001 (Water)**

Prepared: 01-Mar-24 07:50 By: KD -- Analyzed: 01-Mar-24 07:50 By: KD

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
CBOD	<2.00 mg/L	131% / 131%	NA / NA		0.225%	

**Field Analyses -- Batch: B403030 (Water)**

Prepared: 28-Feb-24 09:32 By: MH -- Analyzed: 28-Feb-24 09:32 By: MH

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

**Field Analyses -- Batch: B403031 (Water)**

Prepared: 01-Mar-24 13:55 By: MH -- Analyzed: 01-Mar-24 13:55 By: MH

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Temperature (Field)	NA	NA / NA	NA / NA	17.0 °C	0.00%	

**Field Analyses -- Batch: B403032 (Water)**

Prepared: 28-Feb-24 13:55 By: MH -- Analyzed: 28-Feb-24 13:55 By: MH

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Dissolved Oxygen (Field)	NA	NA / NA	NA / NA	7.45 mg/L	0.134%	

**QUALIFIER(S)**

\*B-01: Method requirements for oxygen depletion failed. Data is qualified as estimated.

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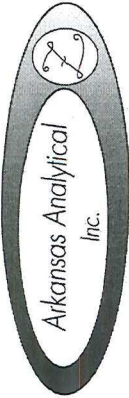
**Josh Weaver**  
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All Analysis performed according to EPA approved methodology when available :  
SW 846, Revised December, 1996; EPA 600/4-79-020, Revised March, 1983; Standard Methods.  
Instrument calibration and quality control samples performed 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



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 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 <b>Reporting Information</b> 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 <sub>2</sub> SO <sub>4</sub> ), pH < 2 3. Nitric Acid (HNO <sub>3</sub> ), pH < 2 4. Thiosulfate for Dechlorination 5. Hydrochloric Acid (HCl) 6. Sodium Hydroxide (NaOH), pH > 12					
<b>Aftn: Josh Weaver</b> Signature: <i>Josh Weaver</i>			Telephone: 870-238-2751 Fax: 870-238-2044 Email: jweaver.wvu@gmail.com		Preservative Code: Bottle Type:		<b>TEST PARAMETERS</b> G = Glass, P = Plastic V = Septum, A = Amber					
<b>Sampler(s) Signature</b> <i>Josh Weaver</i>			<b>Sampler(s) Printed:</b> <i>Josh Weaver</i>		<b>Number of Bottles</b> Comp: 3 Grab: 0		<b>Arkansas Analytical Work Order Number:</b> 2402659					
Field Number	SAMPLE COLLECTION		Grab	Sample Matrix	SAMPLE IDENTIFICATION/ DESCRIPTION		Field (pH, D.O., Temperature)	CBOD, TSS	Ammonia	Fecal Coliform	Bottle Type Code	
	Date/s	Time/s			Sample	Duplicate					1	1,2
	2/28	11:44	X	Water	Lagoon Discharge Grab (Wynne)		X	X	X			
	2/28	12:00	X	Water	Lagoon Discharge Field Analysis (AR Analytical)		X					
<b>ONSITE MEASUREMENTS by Arkansas Analytical -- DATE: 2/28/24</b>												
					pH (S.U.)	753	753	753				
					Time	12:00	12:05	9:30				
					Temperature (°C)	14.8	14.8	15.3				
					Time	12:00	12:05	9:30				
					Dissolved Oxygen (mg/L)	886	810	932				
					Time	12:00	12:05	9:30				
<b>Field Calibration Record -- DATE: 2/28/24</b> Chlorine pH / Time 4 7 10 9:40												
<b>1. Relinquished by: (Signature)</b> <i>Josh Weaver</i>			<b>2. Received by: (Signature)</b> 12-10 <i>(Signature)</i>			<b>SAMPLE CONDITION UPON RECEIPT IN LAB</b> 1. CUSTODY SEALS: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 2. CONTAINERS CORRECT: Yes <input type="checkbox"/> No <input type="checkbox"/> 3. COC/LABELS AGREE: Yes <input type="checkbox"/> No <input type="checkbox"/> 4. RECEIVED ON ICE: Yes <input type="checkbox"/> No <input type="checkbox"/> 5. TEMPERATURE ON RECEIPT: 2 °C 6. TEMPERATURE GUN ID: HHT#			<b>REMARKS / SAMPLE COMMENTS</b>			
<b>3. Relinquished by: (Signature)</b> <i>(Signature)</i>			<b>4. Received by lab: (Signature)</b> 1/5/15 2/28/24 <i>Natasha Howard</i>			<b>FOR COMPLETION BY LAB ONLY</b>						