



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

17 April 2024

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

Project: Lagoon Discharge Sample
Project Number: April 2024
SDG Number: 2404287

Enclosed are the results of analyses for samples received by the laboratory on 10-Apr-24 16:30. 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".

Norma James
Technical Director

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CASE NARRATIVE

Sample Delivery Group – 2404287

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: 2404287-01
Sample Name: Lagoon Discharge Grab (Wynne)
Date/Time Collected: 4/10/24 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	12.5		4/15/24 8:15	B404353	SM 4500-NH3 B,D,C-2011
Fecal Coliforms	MPN/100 mL	120		4/10/24 16:30	B404288	IDEXX Colilert-18
TSS	mg/L	8.00		4/12/24 12:00	B404305	SM 2540 D-2015
CBOD	mg/L	3.80	B-01	4/11/24 7:26	B404250	SM 5210B-2016

ANALYTICAL RESULTS

Lab Number: 2404287-02
Sample Name: Lagoon Discharge Field Analysis (AR Analytical)
Date/Time Collected: 4/10/24 13:00
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	6.50		4/10/24 13:00	B404342	SM 4500-O G-2011
pH	S.U.	7.40		4/10/24 13:00	B404339	SM 4500-H+ B-2011
Temperature	°C	17.0		4/10/24 13:00	B404341	SM 2550B-2000

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QUALITY CONTROL RESULTS

Wet Chemistry -- Batch: B404250 (Water)

Prepared: 11-Apr-24 07:26 By: MB -- Analyzed: 11-Apr-24 07:26 By: KD

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
CBOD	<2.00 mg/L	123% / 129%	NA / NA		5.14%	

Wet Chemistry -- Batch: B404288 (Water)

Prepared: 10-Apr-24 16:30 By: KJ -- Analyzed: 10-Apr-24 16:30 By: KJ

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Fecal Coliforms	<1 MPN/100 mL	NA / NA	NA / NA	23000 MPN/100 mL	17.4%	

Wet Chemistry -- Batch: B404305 (Water)

Prepared: 12-Apr-24 12:00 By: MH -- Analyzed: 12-Apr-24 12:00 By: MH

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
TSS	<1.00 mg/L	82.0% / 86.0%	NA / NA		4.76%	

Field Analyses -- Batch: B404339 (Water)

Prepared: 10-Apr-24 08:17 By: MH -- Analyzed: 10-Apr-24 08:17 By: MH

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
pH (Field)	NA	100% / 101%	NA / NA		0.284%	

Field Analyses -- Batch: B404341 (Water)

Prepared: 10-Apr-24 15:25 By: MH -- Analyzed: 10-Apr-24 15:25 By: MH

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Temperature (Field)	NA	NA / NA	NA / NA	18.1 °C	0.554%	

Field Analyses -- Batch: B404342 (Water)

Prepared: 10-Apr-24 15:25 By: MH -- Analyzed: 10-Apr-24 15:25 By: MH

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Dissolved Oxygen (Field)	NA	NA / NA	NA / NA	6.96 mg/L	0.866%	

Wet Chemistry -- Batch: B404353 (Water)

Prepared: 15-Apr-24 08:15 By: KJ -- Analyzed: 15-Apr-24 08:15 By: KJ

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Ammonia as N	<0.500 mg/L	96.8% / NA	92.8% / 99.5%		5.19%	

QUALIFIER(S)

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

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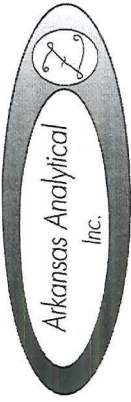


All Analysis performed according to EPA approved methodology when available :
SW 846, Revised December, 1996; EPA 600/4-79-020, Revised March, 1983; Standard Methods.
Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

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



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%) 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			Telephone: 870-238-2751 Fax: 870-238-2044 Email: jweaver.wvu@gmail.com		Preservative Code: Bottle Type:		TEST PARAMETERS 1 1,2 1,4 P P P Field (pH, D.O., Temperature) TSS Ammonia Fecal Coliform							
Sampler(s) Signature: <i>Josh Weaver</i> Sampler(s) Printed: <i>JOSH WEAVER</i>			Number of Bottles: 3 Sample Matrix: Water Grab: X Identification/Description: Lagoon Discharge Grab (Wynne)									Bottle Type Code: G = Glass; P = Plastic V = Septum; A = Amber Arkansas Analytical Work Order Number: <i>2404287</i>		
Field Number: _____ Date/s: <i>4/10</i> Time/s: <i>10:12</i> <i>4:02:24</i> <i>13:00</i>			Grab: X Identification/Description: Lagoon Discharge Field Analysis (AR Analytical)									Field Calibration Record -- DATE: <i>4/10/24</i> pH / Time: _____ D.O.: _____ Time: _____ Slope: _____		
ONSITE MEASUREMENTS by Arkansas Analytical -- DATE: 4/10/24														
pH (S.U.)			740		737		702		704		704			
Time			13:00		13:05		8:15		8:17		8:17			
Temperature (°C)			17.0		17.1		18.5		18.5		18.5			
Time			13:00		13:05		8:15		8:17		8:17			
Dissolved Oxygen (mg/L)			650		646									
Time			15:00		13:05									
Date/Time			4/10/24		4/10/24		4/10/24		4/10/24		4/10/24			
Signature			<i>Josh Weaver</i>		<i>Josh Weaver</i>		<i>Josh Weaver</i>		<i>Josh Weaver</i>		<i>Josh Weaver</i>			
Date/Time			1630		4/10/24		1630		4/10/24		1630			
Signature			<i>Natascha Howard</i>		<i>Natascha Howard</i>		<i>Natascha Howard</i>		<i>Natascha Howard</i>		<i>Natascha Howard</i>			
Revision 3 44446												REMARKS / SAMPLE COMMENTS 810		

1. Relinquished by: (Signature)		2. Received by: (Signature)	
<i>Josh Weaver</i>		<i>Josh Weaver</i>	
Date/Time: <i>4/10/24</i>		Date/Time: <i>4/10/24</i>	
Signature: _____		Signature: _____	
Date/Time: <i>1630</i>		Date/Time: <i>1630</i>	
Signature: _____		Signature: _____	
Revision 3 44446		HHT#	

FOR COMPLETION BY LAB ONLY