



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

11 July 2024

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

Project: Lagoon Discharge Sample

Project Number: July 2024

SDG Number: 2407100

Enclosed are the results of analyses for samples received by the laboratory on 03-Jul-24 14:40. 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,

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.

11 July 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: July 2024
Date Received: 03-Jul-24 14:40



ANALYTICAL RESULTS

Lab Number:		2407100-01				
Sample Name:		Lagoon Discharge Grab (Wynne)				
Date/Time Collected:		7/3/24 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	< 0.500		7/10/24 8:02	B407215	SM 4500-NH3 B,D,C-2021/EPA
Fecal Coliforms	MPN/100 mL	280		7/3/24 15:25	B407160	2550.1 IDEXX Colilert-18
TSS	mg/L	19.5		7/9/24 13:15	B407177	SM 2540 D-2015
CBOD	mg/L	9.52		7/5/24 6:28	B407132	SM 5210B-2016

ANALYTICAL RESULTS

Lab Number:		2407100-02				
Sample Name:		Lagoon Discharge Field Analysis (AR Analytical)				
Date/Time Collected:		7/3/24 11:20				
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	7.08		7/3/24 11:20	B407176	SM 4500-O G-2011
pH	S.U.	8.65		7/3/24 11:20	B407173	SM 4500-H+ B-2011
Temperature	°C	29.5		7/3/24 11:20	B407174	SM 2550B-2000

11 July 2024

Josh Weaver
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121 East Merriman
Wynne, AR 72396
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QUALITY CONTROL RESULTS

Wet Chemistry -- Batch: B407132 (Water)

Prepared: 05-Jul-24 06:28 By: MB -- Analyzed: 05-Jul-24 06:28 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	105% / 112%	NA / NA		6.50%	

Wet Chemistry -- Batch: B407160 (Water)

Prepared: 03-Jul-02 15:25 By: KJ -- Analyzed: 03-Jul-02 15:25 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	220 MPN/100 mL	15.5%	

Field Analyses -- Batch: B407173 (Water)

Prepared: 03-Jul-24 08:16 By: MH -- Analyzed: 03-Jul-24 08:16 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>
pH (Field)	NA	100% / 100%	NA / NA		0.00%	

Field Analyses -- Batch: B407174 (Water)

Prepared: 03-Jul-24 09:10 By: MH -- Analyzed: 03-Jul-24 09:10 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	25.5 °C	0.391%	

Field Analyses -- Batch: B407176 (Water)

Prepared: 03-Jul-24 09:10 By: MH -- Analyzed: 03-Jul-24 09:10 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	0.930%	

Wet Chemistry -- Batch: B407177 (Water)

Prepared: 09-Jul-24 13:15 By: MH -- Analyzed: 09-Jul-24 13:15 By: BH

<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	83.0% / 91.0%	NA / NA		9.20%	

Wet Chemistry -- Batch: B407215 (Water)

Prepared: 10-Jul-24 08:02 By: KJ -- Analyzed: 10-Jul-24 08:02 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	92.3% / NA	89.9% / 90.3%		0.369%	

11 July 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: July 2024
Date Received: 03-Jul-24 14:40



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, reading "Norma James", is positioned above a horizontal line. The signature is written in a cursive, flowing style.

Reviewed by: _____

Norma James
Technical Director



Description		Turnaround Time		Preservation Codes:											
Large Sample		1 Day (100%)		1. Cool, 6 Degrees Centigrade					4. Thiosulfate for Dechlorination						
Sample		2 Day (50%)		2. Sulfuric Acid (H ₂ SO ₄), pH < 2					5. Hydrochloric Acid (HCl)						
Information		3 Day (25%)		3. Nitric Acid (HNO ₃), pH < 2					6. Sodium Hydroxide (NaOH), pH > 12						
0-238-2751		5 Day (Routine)		TEST PARAMETERS										Bottle Type Code	
08-2044		Preservative Code:		1	1	1,2	1,4							G = Glass; P = Plastic	
u@gmail.com		Bottle Type:		P	P	P	P							V = Septum; A = Amber	
				Field (pH, D.O., Temperature)	CBOD, TSS	Ammonia	Fecal Coliform							Arkansas Analytical Work Order Number:	
SAMPLE														2407112	
IDENTIFICATION/ DESCRIPTION															
Large Grab (Wynne)					X	X	X							01	
Large Field Analysis (AR Analytical)				X										02	
REQUIREMENTS by Arkansas Analytical -- DATE: 7/3/24															
Sample		Duplicate		QC	QC Duplicate		Field Calibration Record -- DATE: 7/3/24								
865		869		701	701		pH / Time		D.O.		Chlorine				
1120		1125		815	816		4		Time		QC Time				
29.5		30.0		24.6	24.4		7		Slope		1				
1120		1125		815	816		10				2				
708		705					810								
1120		1125													
SAMPLE CONDITION UPON RECEIPT IN LAB				REMARKS / SAMPLE COMMENTS											
1. CUSTODY SEALS: Yes ___ No ___															
2. CONTAINERS CORRECT: Yes ___ No ___															
3. COC/LABELS AGREE: Yes ___ No ___															
4. RECEIVED ON ICE: Yes ___ No ___															
5. TEMPERATURE ON RECEIPT: 3 °C															
6. TEMPERATURE GUN ID: HHT# 5 - 58				7/5/24											
FOR COMPLETION BY LAB ONLY															

CLIENT INFORMATION			Project Description			Turnaround Time		Preservation Codes:											
Wynne Water Utilities			Lagoon Discharge Sample			1 Day (100%)		1. Cool, 6 Degrees Centigrade					4. Thiosulfate for Dechlorination						
121 East Merriman			Weekly Sample			2 Day (50%)		2. Sulfuric Acid (H ₂ SO ₄), pH < 2					5. Hydrochloric Acid(HCl)						
Wynne, AR 72396			Reporting Information			3 Day (25%)		3. Nitric Acid (HNO ₃), pH < 2					6. Sodium Hydroxide (NaOH), pH > 12						
			Telephone: 870-238-2751			5 Day (Routine)		TEST PARAMETERS										Bottle Type Code	
Attn: Josh Weaver			Fax: 870-238-2044			Preservative Code:		1	1	1,2	1,4						G = Glass; P = Plastic		
			Email: jweaver.wwu@gmail.com			Bottle Type:		P	P	P	P						V = Septum; A = Amber		
Sampler(s) Signature			Sampler(s) Printed: Josh Weaver																
Field Number		SAMPLE COLLECTION		Grab	Comp	Number of Bottles	Sample Matrix	SAMPLE IDENTIFICATION/ DESCRIPTION		Field (pH, D.O., Temperature)	CBOD, TSS	Ammonia	Fecal Coliform					Arkansas Analytical Work Order Number:	
	Date/s		Time/s																
	7/3		10 AM	X		3	Water	Lagoon Discharge Grab (Wynne)			X	X	X					01	
	7/3/24		1120	X		0	Water	Lagoon Discharge Field Analysis (AR Analytical)		X								02	
ONSITE MEASUREMENTS by Arkansas Analytical -- DATE: 7/3/24																			
								Sample	Duplicate	QC	QC Duplicate	Field Calibration Record -- DATE: 7/3/24							
								pH (S.U.)	865	869	701	701	pH / Time		D.O.		Chlorine		
								Time	1120	1125	815	816			Time		QC Time		
								Temperature (°C)	29.5	30.0	24.6	24.4	4		Time		1		
								Time	1120	1125	815	816	7		Slope		2		
								Dissolved Oxygen (mg/L)	708	705			10						
								Time	1120	1125			810						
1. Relinquished by: (Signature)			Date/Time		2. Received by: (Signature)			SAMPLE CONDITION UPON RECEIPT IN LAB					REMARKS / SAMPLE COMMENTS						
7/3			1135		7/3/24			1. CUSTODY SEALS: Yes ___ No ___											
								2. CONTAINERS CORRECT: Yes ___ No ___											
								3. COC/LABELS AGREE: Yes ___ No ___											
3. Relinquished by: (Signature)			Date/Time		4. Received by lab: (Signature)			4. RECEIVED ON ICE: Yes ___ No ___											
1440			7/3/24		7/3/24			5. TEMPERATURE ON RECEIPT: 3 °C											
								6. TEMPERATURE GUN ID: HHT# 5- (8)					7/5/24						
Revision 3																			



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23 July 2024

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

Project: Lagoon Discharge Sample

Project Number: July 2024

SDG Number: 2407444

Enclosed are the results of analyses for samples received by the laboratory on 17-Jul-24 14:50. 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	2.0°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.

23 July 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: July 2024
Date Received: 17-Jul-24 14:50



ANALYTICAL RESULTS

Lab Number:		2407444-01				
Sample Name:		Lagoon Discharge Grab (Wynne)				
Date/Time Collected:		7/17/24 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	< 0.500		7/18/24 8:21	B407435	SM 4500-NH3 B,D,C-2021/EPA
Fecal Coliforms	MPN/100 mL	1100		7/17/24 15:08	B407451	2550.1 IDEXX Colilert-18
TSS	mg/L	41.3		7/18/24 16:25	B407423	SM 2540 D-2015
CBOD	mg/L	11.8		7/18/24 14:11	B407456	SM 5210B-2016

ANALYTICAL RESULTS

Lab Number:		2407444-02				
Sample Name:		Lagoon Discharge Field Analysis (AR Analytical)				
Date/Time Collected:		7/17/24 11:40				
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	5.63		7/17/24 11:40	B407483	SM 4500-O G-2011
pH	S.U.	7.50		7/17/24 11:40	B407479	SM 4500-H+ B-2011
Temperature	°C	28.7		7/17/24 11:40	B407481	SM 2550B-2000

23 July 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: July 2024
Date Received: 17-Jul-24 14:50



QUALITY CONTROL RESULTS

Wet Chemistry -- Batch: B407423 (Water)

Prepared: 18-Jul-24 16:25 By: MH -- Analyzed: 18-Jul-24 16:25 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	91.0% / 93.0%	NA / NA		2.17%	

Wet Chemistry -- Batch: B407435 (Water)

Prepared: 18-Jul-24 08:21 By: KJ -- Analyzed: 18-Jul-24 08:21 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	93.9% / NA	91.3% / 92.3%		1.09%	

Wet Chemistry -- Batch: B407451 (Water)

Prepared: 17-Jul-24 15:08 By: KJ -- Analyzed: 17-Jul-24 15:08 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: B407456 (Water)

Prepared: 18-Jul-24 14:11 By: KD -- Analyzed: 18-Jul-24 14:11 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	126% / 129%	NA / NA		1.85%	

Field Analyses -- Batch: B407479 (Water)

Prepared: 17-Jul-24 08:37 By: MH -- Analyzed: 17-Jul-24 08:37 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: B407481 (Water)

Prepared: 17-Jul-24 13:35 By: MH -- Analyzed: 17-Jul-24 13:35 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	26.8 °C	0.372%	

Field Analyses -- Batch: B407483 (Water)

Prepared: 17-Jul-24 13:35 By: MH -- Analyzed: 17-Jul-24 13:35 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	7.04 mg/L	0.142%	

23 July 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: July 2024
Date Received: 17-Jul-24 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, reading "Norma James", 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				Lagoon Discharge Sample				1 Day (100%)	1. Cool, 6 Degrees Centigrade						4. Thiosulfate for Dechlorination					
121 East Merriman				Weekly Sample				2 Day (50%)	2. Sulfuric Acid (H ₂ SO ₄), pH < 2						5. Hydrochloric Acid(HCl)					
Wynne, AR 72396				Reporting Information				3 Day (25%)	3. Nitric Acid (HNO ₃), pH < 2						6. Sodium Hydroxide (NaOH), pH > 12					
				Telephone: 870-238-2751				5 Day (Routine)	TEST PARAMETERS										Bottle Type Code	
Attn: Josh Weaver				Fax: 870-238-2044				Preservative Code:	1	1	1,2	1,4							G = Glass; P = Plastic	
				Email: jweaver.www@gmail.com				Bottle Type:	P	P	P	P							V = Septum; A = Amber	
Sampler(s) Signature				Sampler(s) Printed:														Arkansas Analytical Work Order Number:		
Field Number		SAMPLE COLLECTION Date/s Time/s		Grab	Comp	Number of Bottles	Sample Matrix	SAMPLE IDENTIFICATION/ DESCRIPTION		Field (pH, D.O., Temperature)	CBOD, TSS	Ammonia	Fecal Coliform							
		7/17	10AM	X		3	Water	Lagoon Discharge Grab (Wynne)			X	X	X					01		
		7/17/24	1140	X		0	Water	Lagoon Discharge Field Analysis (AR Analytical)		X								02		
										ONSITE MEASUREMENTS by Arkansas Analytical -- DATE: 7/17/24										
										Sample	Duplicate	QC	QC Duplicate	Field Calibration Record -- DATE: 7/17/24						
										pH (S.U.)	750	753	702	702	pH / Time	D.O.	Chlorine			
										Time	1140	1145	835	837						
										Temperature (°C)	28.7	28.5	22.8	22.7	4	Time	QC	Time		
										Time	1140	1145	835	837	7		1			
										Dissolved Oxygen (mg/L)	5.63	5.62			10	Slope	2			
										Time	1140	1145			830					
1. Relinquished by: (Signature)		Date/Time		2. Received by: (Signature)		SAMPLE CONDITION UPON RECEIPT IN LAB				REMARKS / SAMPLE COMMENTS										
		7/17				1. CUSTODY SEALS: Yes ___ No ___														
						2. CONTAINERS CORRECT: Yes ___ No ___														
						3. COC/LABELS AGREE: Yes ___ No ___														
3. Relinquished by: (Signature)		Date/Time		4. Received by lab: (Signature)		4. RECEIVED ON ICE: Yes ___ No ___														
		7/17/24				5. TEMPERATURE ON RECEIPT: 2 °C														
						6. TEMPERATURE GUN ID: HHT# 5														
Revision 3 1/4/16										FOR COMPLETION BY LAB ONLY										



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

31 July 2024

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

Project: Lagoon Discharge Sample

Project Number: July 2024

SDG Number: 2407621

Enclosed are the results of analyses for samples received by the laboratory on 24-Jul-24 15:18. 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	2.0°C

Sincerely,

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

Norma James
Technical Director

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31 July 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: July 2024
Date Received: 24-Jul-24 15:18



ANALYTICAL RESULTS

Lab Number:		2407621-01				
Sample Name:		Lagoon Discharge Grab (Wynne)				
Date/Time Collected:		7/24/24 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	< 0.500		7/29/24 8:17	B407640	SM 4500-NH3 B,D,C-2021/EPA
Fecal Coliforms	MPN/100 mL	1400		7/24/24 15:17	B407645	2550.1 IDEXX Colilert-18
TSS	mg/L	47.5		7/26/24 9:15	B407597	SM 2540 D-2015
CBOD	mg/L	7.08		7/25/24 6:58	B407572	SM 5210B-2016

ANALYTICAL RESULTS

Lab Number:		2407621-02				
Sample Name:		Lagoon Discharge Field Analysis (AR Analytical)				
Date/Time Collected:		7/24/24 12:05				
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	10.2		7/24/24 12:05	B407625	SM 4500-O G-2011
pH	S.U.	8.50		7/24/24 12:05	B407622	SM 4500-H+ B-2011
Temperature	°C	28.2		7/24/24 12:05	B407623	SM 2550B-2000

31 July 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: July 2024
Date Received: 24-Jul-24 15:18



QUALITY CONTROL RESULTS

Wet Chemistry -- Batch: B407572 (Water)

Prepared: 25-Jul-24 06:58 By: MB -- Analyzed: 25-Jul-24 06:58 By: CGF

<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	122% / 129%	NA / NA		5.62%	

Wet Chemistry -- Batch: B407597 (Water)

Prepared: 26-Jul-24 09:15 By: MH -- Analyzed: 26-Jul-24 09:15 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% / 91.0%	NA / NA		1.10%	

Field Analyses -- Batch: B407622 (Water)

Prepared: 24-Jul-24 08:32 By: MH -- Analyzed: 24-Jul-24 08:32 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>
pH (Field)	NA	101% / 101%	NA / NA		0.00%	

Field Analyses -- Batch: B407623 (Water)

Prepared: 24-Jul-24 14:07 By: MH -- Analyzed: 24-Jul-24 14:07 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	28.2 °C	0.355%	

Field Analyses -- Batch: B407625 (Water)

Prepared: 24-Jul-24 14:07 By: MH -- Analyzed: 24-Jul-24 14:07 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	6.74 mg/L	0.595%	

Wet Chemistry -- Batch: B407640 (Water)

Prepared: 29-Jul-24 08:17 By: KJ -- Analyzed: 29-Jul-24 08:17 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	95.9% / NA	96.7% / 96.5%		0.144%	

Wet Chemistry -- Batch: B407645 (Water)

Prepared: 24-Jul-24 15:17 By: KJ -- Analyzed: 24-Jul-24 15:17 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	4 MPN/100 mL	122%	

31 July 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: July 2024
Date Received: 24-Jul-24 15:18



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, reading "Norma James", 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				Lagoon Discharge Sample				1 Day (100%)	1. Cool, 6 Degrees Centigrade					4. Thiosulfate for Dechlorination						
121 East Merriman				Weekly Sample				2 Day (50%)	2. Sulfuric Acid (H ₂ SO ₄), pH < 2					5. Hydrochloric Acid(HCl)						
Wynne, AR 72396				Reporting Information				3 Day (25%)	3. Nitric Acid (HNO ₃), pH < 2					6. Sodium Hydroxide (NaOH), pH > 12						
Attn: Josh Weaver				Telephone: 870-238-2751				5 Day (Routine)	TEST PARAMETERS										Bottle Type Code	
				Fax: 870-238-2044				Preservative Code:	1	1	1,2	1,4							G = Glass; P = Plastic	
				Email: jweaver.wwu@gmail.com				Bottle Type:	P	P	P	P							V = Septum; A = Amber	
Sampler(s) Signature:				Sampler(s) Printed: JOSH WEAVER														Arkansas Analytical Work Order Number:		
Field Number		SAMPLE COLLECTION		Grab	Comp	Number of Bottles	Sample Matrix	SAMPLE IDENTIFICATION/ DESCRIPTION		Field (pH, D.O., Temperature)	CBOD, TSS	Ammonia	Fecal Coliform							
	7/24		10AM	X		3	Water	Lagoon Discharge Grab (Wynne)			X	X	X					01		
	7/24/24		1205	X		0	Water	Lagoon Discharge Field Analysis (AR Analytical)		X								02		
										ONSITE MEASUREMENTS by Arkansas Analytical -- DATE: 7/24/24										
								Sample	Duplicate	QC	QC Duplicate	Field Calibration Record -- DATE: 7/24/24								
								pH (S.U.)	850	854	704	704	pH / Time		D.O.		Chlorine			
								Time	1205	1210	830	832								
								Temperature (°C)	28.2	28.3	26.4	26.4	4		Time		QC Time			
								Time	1205	1210	830	832	7		Slope		1			
								Dissolved Oxygen (mg/L)	1015	1019			10				2			
								Time	1205	1210			825							
1. Relinquished by: (Signature)				Date/Time		2. Received by: (Signature)				SAMPLE CONDITION UPON RECEIPT IN LAB				REMARKS / SAMPLE COMMENTS						
				7-24						1. CUSTODY SEALS: <input checked="" type="checkbox"/> Yes ___ No										
										2. CONTAINERS CORRECT: <input checked="" type="checkbox"/> Yes ___ No										
										3. COC/LABELS AGREE: <input checked="" type="checkbox"/> Yes ___ No										
3. Relinquished by: (Signature)				Date/Time		4. Received by lab: (Signature)				4. RECEIVED ON ICE: <input checked="" type="checkbox"/> Yes ___ No										
				1518						5. TEMPERATURE ON RECEIPT: 2°C										
				7/24/24						6. TEMPERATURE GUN ID: HHT# 5										
FOR COMPLETION BY LAB ONLY																				



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

07 August 2024

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

Project: Lagoon Discharge Sample

Project Number: July 2024

SDG Number: 2407749

Enclosed are the results of analyses for samples received by the laboratory on 31-Jul-24 16:12. 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	1.0°C

Sincerely,

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

Norma James
Technical Director

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07 August 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: July 2024
Date Received: 31-Jul-24 16:12



CASE NARRATIVE

Sample Delivery Group – 2407749

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

FECAL COLIFORM QUALIFIERS:

<u>Qualifier</u>	<u>Description</u>
FC	The sample result is actually GREATER THAN the 2420 MPN/100 mL. The sample growth exceeded the limit of the procedure.
TNTC	Too Numerous to Count

07 August 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: July 2024
Date Received: 31-Jul-24 16:12



ANALYTICAL RESULTS

Lab Number:		2407749-01					
Sample Name:		Lagoon Discharge Grab (Wynne)					
Date/Time Collected:		7/31/24 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	< 0.500		8/1/24 8:12	B408002	SM 4500-NH3 B,D,C-2021/EPA	
Fecal Coliforms	MPN/100 mL	TNTC	FC, TNTC	7/31/24 15:40	B408011	IDEXX Colilert-18	
TSS	mg/L	45.8		8/2/24 9:30	B408023	SM 2540 D-2015	
CBOD	mg/L	13.4		8/2/24 7:10	B408032	SM 5210B-2016	

ANALYTICAL RESULTS

Lab Number:		2407749-02					
Sample Name:		Lagoon Discharge Field Analysis (AR Analytical)					
Date/Time Collected:		7/31/24 13:15					
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	14.3		7/31/24 13:15	B408052	SM 4500-O G-2011	
pH	S.U.	8.27		7/31/24 13:15	B408050	SM 4500-H+ B-2011	
Temperature	°C	30.9		7/31/24 13:15	B408051	SM 2550B-2000	

07 August 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: July 2024
Date Received: 31-Jul-24 16:12



QUALITY CONTROL RESULTS

Wet Chemistry -- Batch: B408002 (Water)

Prepared: 01-Aug-24 08:12 By: KJ -- Analyzed: 01-Aug-24 08:12 By: KJ

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Ammonia as N	<0.500 mg/L	97.8% / NA	93.6% / 93.4%		0.251%	

Wet Chemistry -- Batch: B408011 (Water)

Prepared: 31-Jul-24 15:40 By: KJ -- Analyzed: 31-Jul-24 15:40 By: KJ

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Fecal Coliforms	<1 MPN/100 mL	NA / NA	NA / NA	TNTC MPN/100 mL	0.00%	FC, TNTC

Wet Chemistry -- Batch: B408023 (Water)

Prepared: 02-Aug-24 09:30 By: MH -- Analyzed: 02-Aug-24 09:30 By: MH

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
TSS	<1.00 mg/L	98.0% / 102%	NA / NA		4.00%	

Wet Chemistry -- Batch: B408032 (Water)

Prepared: 02-Aug-24 07:10 By: KD -- Analyzed: 02-Aug-24 07:10 By: KD

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
CBOD	<2.00 mg/L	124% / 113%	NA / NA		9.19%	

Field Analyses -- Batch: B408050 (Water)

Prepared: 31-Jul-24 08:40 By: MH -- Analyzed: 31-Jul-24 08:40 By: MH

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

Field Analyses -- Batch: B408051 (Water)

Prepared: 31-Jul-24 15:03 By: MH -- Analyzed: 31-Jul-24 15:03 By: MH

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Temperature (Field)	NA	NA / NA	NA / NA	30.3 °C	0.331%	

Field Analyses -- Batch: B408052 (Water)

Prepared: 31-Jul-24 15:03 By: MH -- Analyzed: 31-Jul-24 15:03 By: MH

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Dissolved Oxygen (Field)	NA	NA / NA	NA / NA	6.48 mg/L	0.308%	

07 August 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: July 2024
Date Received: 31-Jul-24 16:12



QUALIFIER(S)

*FC: The sample result is actually GREATER THAN 2420 MPN/100mL. The sample growth exceeded the limit of the procedure.
*TNTC: Too Numerous To Count

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, reading "Norma James", 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				Lagoon Discharge Sample		1 Day (100%)	1. Cool, 6 Degrees Centigrade					4. Thiosulfate for Dechlorination					
121 East Merriman				Weekly Sample		2 Day (50%)	2. Sulfuric Acid (H ₂ SO ₄), pH < 2					5. Hydrochloric Acid (HCl)					
Wynne, AR 72396				Reporting Information		3 Day (25%)	3. Nitric Acid (HNO ₃), pH < 2					6. Sodium Hydroxide (NaOH), pH > 12					
Attn: Josh Weaver				Telephone: 870-238-2751		5 Day (Routine)	TEST PARAMETERS										Bottle Type Code
				Fax: 870-238-2044		Preservative Code:	1	1	1,2	1,4							G = Glass; P = Plastic
				Email: jweaver.wvu@gmail.com		Bottle Type:	P	P	P	P							V = Septum; A = Amber
Sampler(s) Signature:				Sampler(s) Printed: Josh Weaver				Arkansas Analytical Work Order Number: 240774									
Field Number	SAMPLE COLLECTION		Grab	Comp	Number of Bottles	Sample Matrix	SAMPLE IDENTIFICATION/ DESCRIPTION		Field (pH, D.O., Temperature)	CBOD, TSS	Ammonia	Fecal Coliform					
	7/31	10:4 a.m.	X		3	Water	Lagoon Discharge Grab (Wynne)			X	X	X					01
	7/31/24	1315	X		0	Water	Lagoon Discharge Field Analysis (AR Analytical)		X								02
ONSITE MEASUREMENTS by Arkansas Analytical -- DATE: 7/31/24																	
							Sample	Duplicate	QC	QC Duplicate	Field Calibration Record -- DATE: 7/31/24						
							pH (S.U.)	8.27	8.31	7.08	7.07	pH / Time		D.O.		Chlorine	
							Time	1315	1320	8.35	8.40			Time		QC Time	
							Temperature (°C)	30.9	31.0	23.9	23.9	4		Time		1	
							Time	1315	1320	8.35	8.40	7		Slope		2	
							Dissolved Oxygen (mg/L)	1.426	1.421			10					
							Time	1315	1320			8.35					
1. Relinquished by: (Signature)		Date/Time		2. Received by: (Signature)		SAMPLE CONDITION UPON RECEIPT IN LAB						REMARKS / SAMPLE COMMENTS					
		7/31				1. CUSTODY SEALS: <input checked="" type="checkbox"/> Yes ___ No											
						2. CONTAINERS CORRECT: ___ Yes ___ No											
						3. COC/LABELS AGREE: ___ Yes ___ No											
3. Relinquished by: (Signature)		Date/Time		4. Received by lab: (Signature)		4. RECEIVED ON ICE: <input checked="" type="checkbox"/> Yes ___ No											
		1612				5. TEMPERATURE ON RECEIPT: 1 °C											
		7/31/24				6. TEMPERATURE GUN ID: HHT# 5											
FOR COMPLETION BY LAB ONLY																	