



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

13 November 2024

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

Project: Lagoon Discharge Sample
Project Number: November 2024
SDG Number: 2411110

Enclosed are the results of analyses for samples received by the laboratory on 06-Nov-24 15:05. 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

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13 November 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: November 2024
Date Received: 06-Nov-24 15:05



CASE NARRATIVE

Sample Delivery Group – 2411110

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

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

13 November 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: November 2024
Date Received: 06-Nov-24 15:05



ANALYTICAL RESULTS

Lab Number:		2411110-01					
Sample Name:		Lagoon Discharge Grab (Wynne)					
Date/Time Collected:		11/6/24 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	4.49		11/7/24 8:25	B411105	SM 4500-NH3 B,D,C-2021/EPA 250.1	
Fecal Coliforms	MPN/100 mL	TNTC	FC, TNTC	11/6/24 15:00	B411111	IDEXX Colilert-18	
TSS	mg/L	6.50		11/7/24 16:30	B411099	SM 2540 D-2015	
CBOD	mg/L	2.64		11/7/24 7:01	B411101	SM 5210B-2016	

ANALYTICAL RESULTS

Lab Number:		2411110-02					
Sample Name:		Lagoon Discharge Field Analysis (AR Analytical)					
Date/Time Collected:		11/6/24 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	6.61		11/6/24 11:40	B411176	SM 4500-O G-2011	
pH	S.U.	7.45		11/6/24 11:40	B411174	SM 4500-H+ B-2011	
Temperature	°C	20.6		11/6/24 11:40	B411175	SM 2550B-2000	

13 November 2024

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Wynne, AR 72396
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QUALITY CONTROL RESULTS

Wet Chemistry -- Batch: B411099 (Water)

Prepared: 07-Nov-24 16:30 By: MH -- Analyzed: 07-Nov-24 16:30 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% / 94.0%	NA / NA		4.35%	

Wet Chemistry -- Batch: B411101 (Water)

Prepared: 07-Nov-24 07:01 By: MB -- Analyzed: 07-Nov-24 07:01 By: MB

<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	118% / 128%	NA / NA		7.90%	

Wet Chemistry -- Batch: B411105 (Water)

Prepared: 07-Nov-24 08:25 By: KJ -- Analyzed: 07-Nov-24 08:25 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>
Ammonia as N	<0.500 mg/L	95.3% / NA	97.3% / 97.9%		0.518%	

Wet Chemistry -- Batch: B411111 (Water)

Prepared: 06-Nov-24 15:00 By: KJ -- Analyzed: 06-Nov-24 15:00 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	1700 MPN/100 mL	71.9%	

Field Analyses -- Batch: B411174 (Water)

Prepared: 06-Nov-24 09:05 By: MH -- Analyzed: 06-Nov-24 09:05 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: B411175 (Water)

Prepared: 06-Nov-24 13:50 By: MH -- Analyzed: 06-Nov-24 13:50 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>
Temperature (Field)	NA	NA / NA	NA / NA	21.4 °C	0.466%	

Field Analyses -- Batch: B411176 (Water)

Prepared: 06-Nov-24 13:50 By: MH -- Analyzed: 06-Nov-24 13:50 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>
Dissolved Oxygen (Field)	NA	NA / NA	NA / NA	6.84 mg/L	1.02%	

13 November 2024

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121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: November 2024
Date Received: 06-Nov-24 15:05



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.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:	
	11/6	10 AM	X		3	Water	Lagoon Discharge Grab (Wynne)			X	X	X					2411110	
	11/6/24	1140	X		0	Water	Lagoon Discharge Field Analysis (AR Analytical)		X								2411110	
ONSITE MEASUREMENTS by Arkansas Analytical -- DATE: 11/6/24																		
		Sample	Duplicate	QC	QC Duplicate													
pH (S.U.)		7.45	7.40	7.01	7.01													
Time		1140	1145	903	905													
Temperature (°C)		20.6	20.7	16.5	16.4													
Time		1140	1145	903	905													
Dissolved Oxygen (mg/L)		6.61	6.57															
Time		1140	1145															
Field Calibration Record -- DATE: 11/6/24																		
pH / Time		D.O.		Chlorine														
4		Time		QC		Time												
7		1		2														
10		Slope																
859																		
1. Relinquished by: (Signature)				Date/Time		2. Received by: (Signature)				SAMPLE CONDITION UPON RECEIPT IN LAB				REMARKS / SAMPLE COMMENTS				
				11/6						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: ___ Yes ___ No								
				1505						5. TEMPERATURE ON RECEIPT: 3 °C								
				11/6/24						6. TEMPERATURE GUN ID: HHT# 5								
FOR COMPLETION BY LAB ONLY																		



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21 November 2024

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

Project: Lagoon Discharge Sample
Project Number: November 2024
SDG Number: 2411282

Enclosed are the results of analyses for samples received by the laboratory on 13-Nov-24 17:33. 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	2.0°C

Sincerely,

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

Norma James
Technical Director

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21 November 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: November 2024
Date Received: 13-Nov-24 17:33



CASE NARRATIVE

Sample Delivery Group – 2411282

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).

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

21 November 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: November 2024
Date Received: 13-Nov-24 17:33



ANALYTICAL RESULTS

Lab Number:		2411282-01					
Sample Name:		Lagoon Discharge Grab (Wynne)					
Date/Time Collected:		11/13/24 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	7.89		11/14/24 8:21	B411267	SM 4500-NH3 B,D,C-2021/EPA 250.1	
Fecal Coliforms	MPN/100 mL	TNTC	FC, TNTC	11/13/24 17:45	B411293	IDEXX Colilert-18	
TSS	mg/L	17.5		11/14/24 16:02	B411289	SM 2540 D-2015	
CBOD	mg/L	5.28	B-01	11/15/24 7:00	B411294	SM 5210B-2016	

ANALYTICAL RESULTS

Lab Number:		2411282-02					
Sample Name:		Lagoon Discharge Field Analysis (AR Analytical)					
Date/Time Collected:		11/13/24 12:51					
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	7.69		11/13/24 12:51	B411364	SM 4500-O G-2011	
pH	S.U.	7.76		11/13/24 12:51	B411362	SM 4500-H+ B-2011	
Temperature	°C	21.0		11/13/24 12:51	B411363	SM 2550B-2000	

21 November 2024

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Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: November 2024
Date Received: 13-Nov-24 17:33



QUALITY CONTROL RESULTS

Wet Chemistry -- Batch: B411267 (Water)

Prepared: 14-Nov-24 08:21 By: KJ -- Analyzed: 14-Nov-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	94.3% / NA	102% / 103%		0.882%	

Wet Chemistry -- Batch: B411289 (Water)

Prepared: 14-Nov-24 16:02 By: MH -- Analyzed: 14-Nov-24 16:02 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>
TSS	<1.00 mg/L	92.0% / 90.0%	NA / NA		2.20%	

Wet Chemistry -- Batch: B411293 (Water)

Prepared: 13-Nov-24 15:33 By: KJ -- Analyzed: 13-Nov-24 15:33 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: B411294 (Water)

Prepared: 15-Nov-24 07:00 By: CGF -- Analyzed: 15-Nov-24 07:00 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	124% / 119%	NA / NA		4.61%	

Field Analyses -- Batch: B411362 (Water)

Prepared: 13-Nov-24 09:02 By: MH -- Analyzed: 13-Nov-24 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: B411363 (Water)

Prepared: 13-Nov-24 15:23 By: MH -- Analyzed: 13-Nov-24 15:23 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	19.7 °C	0.506%	

Field Analyses -- Batch: B411364 (Water)

Prepared: 13-Nov-24 15:23 By: MH -- Analyzed: 13-Nov-24 15:23 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	8.70 mg/L	2.44%	

21 November 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: November 2024
Date Received: 13-Nov-24 17:33



QUALIFIER(S)

*B-01: Method requirements for oxygen depletion failed. Data is qualified as estimated.
*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				
				Telephone: 870-238-2751		5 Day (Routine)	TEST PARAMETERS									
Attn: Josh Weaver				Fax: 870-238-2044		Preservative Code:	1	1	1,2	1,4						Bottle Type Code
				Email: jweaver.wvu@gmail.com		Bottle Type:	P	P	P	P						G = Glass; P = Plastic 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	IDENTIFICATION/ DESCRIPTION		Field (pH, D.O., Temperature)	CBOD, TSS	Ammonia	Fecal Coliform				
	11/13	10AM	X		3	Water	Lagoon Discharge Grab (Wynne)		X	X	X					01
	11/13/24	1251	X		0	Water	Lagoon Discharge Field Analysis (AR Analytical)	X								02
ONSITE MEASUREMENTS by Arkansas Analytical -- DATE: 11/13/24																
							Sample	Duplicate	QC	QC Duplicate	Field Calibration Record -- DATE: 11/13/24					
							pH (S.U.)	776	771	706	705	pH / Time	D.O.	Chlorine		
							Time	1251	1256	912	914		Time	QC	Time	
							Temperature (°C)	21.0	20.9	17.6	17.6	4	Time	1		
							Time	1251	1256	912	914	7	Time	2		
							Dissolved Oxygen (mg/L)	769	763			10	Slope			
							Time	1251	1256			910				
1. Relinquished by: (Signature)		Date/Time		2. Received by: (Signature)		SAMPLE CONDITION UPON RECEIPT IN LAB						REMARKS / SAMPLE COMMENTS				
		11/13				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										
		1733 11/13/24				5. TEMPERATURE ON RECEIPT: 2 °C										
						6. TEMPERATURE GUN ID: HHT# 5										
FOR COMPLETION BY LAB ONLY																



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501-455-3233 Fax 501-455-6118

27 November 2024

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

Project: Lagoon Discharge Sample
Project Number: November 2024
SDG Number: 2411458

Enclosed are the results of analyses for samples received by the laboratory on 20-Nov-24 14:58. 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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27 November 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: November 2024
Date Received: 20-Nov-24 14:58



ANALYTICAL RESULTS

Lab Number:		2411458-01					
Sample Name:		Lagoon Discharge Grab (Wynne)					
Date/Time Collected:		11/20/24 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	7.46		11/22/24 8:29	B411475	SM 4500-NH3 B,D,C-2021/EPA 250.1	
Fecal Coliforms	MPN/100 mL	TNTC	FC, TNTC	11/20/24 15:30	B411441	IDEXX Colilert-18	
TSS	mg/L	25.0		11/21/24 16:40	B411413	SM 2540 D-2015	
CBOD	mg/L	5.46		11/22/24 8:57	B411482	SM 5210B-2016	

ANALYTICAL RESULTS

Lab Number:		2411458-02					
Sample Name:		Lagoon Discharge Field Analysis (AR Analytical)					
Date/Time Collected:		11/20/24 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	10.2		11/20/24 12:00	B411510	SM 4500-O G-2011	
pH	S.U.	7.73		11/20/24 12:00	B411508	SM 4500-H+ B-2011	
Temperature	°C	16.3		11/20/24 12:00	B411509	SM 2550B-2000	

27 November 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: November 2024
Date Received: 20-Nov-24 14:58



QUALITY CONTROL RESULTS

Wet Chemistry -- Batch: B411413 (Water)

Prepared: 21-Nov-24 16:40 By: MH -- Analyzed: 21-Nov-24 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	91.0% / 87.0%	NA / NA		4.49%	

Wet Chemistry -- Batch: B411441 (Water)

Prepared: 20-Nov-24 15:30 By: KJ -- Analyzed: 20-Nov-24 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	220 MPN/100 mL	25.7%	

Wet Chemistry -- Batch: B411475 (Water)

Prepared: 22-Nov-24 08:29 By: KJ -- Analyzed: 22-Nov-24 08:29 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	98.1% / NA	103% / 107%		2.67%	

Wet Chemistry -- Batch: B411482 (Water)

Prepared: 22-Nov-24 08:57 By: MB -- Analyzed: 22-Nov-24 08:57 By: MB

<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	116% / 122%	NA / NA		4.69%	

Field Analyses -- Batch: B411508 (Water)

Prepared: 20-Nov-24 08:17 By: MH -- Analyzed: 20-Nov-24 08:17 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: B411509 (Water)

Prepared: 20-Nov-24 13:49 By: MH -- Analyzed: 20-Nov-24 13:49 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	18.5 °C	0.539%	

Field Analyses -- Batch: B411510 (Water)

Prepared: 20-Nov-24 13:49 By: MH -- Analyzed: 20-Nov-24 13:49 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	7.80 mg/L	0.772%	

27 November 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: November 2024
Date Received: 20-Nov-24 14:58



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



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.wvu@gmail.com				Bottle Type:		P	P	P	P					V = Septum; A = Amber	
Sampler(s) Signature: [Signature]						Sampler(s) Printed: JOSH WEAVER						Field (pH, D.O., Temperature)		CBOD, TSS		Ammonia		Fecal Coliform		Arkansas Analytical Work Order Number: 2411458	
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			
		11/20 10AM		X		3	Water	Lagoon Discharge Grab (Wynne)						X		X		X		01	
		11/20/24 1200		X		0	Water	Lagoon Discharge Field Analysis (AR Analytical)				X								02	
										ONSITE MEASUREMENTS by Arkansas Analytical -- DATE: 11/20/24											
								Sample	Duplicate	QC	QC Duplicate	Field Calibration Record -- DATE: 11/20/24									
								pH (S.U.)	773	770	761	701	pH / Time		D.O.		Chlorine				
								Time	1200	1205	817	819			Time		QC Time				
								Temperature (°C)	16.3	16.2	16.1	16.1	4		↓						
								Time	1200	1205	817	819	7		↑						
								Dissolved Oxygen (mg/L)	1024	1030			10		Slope						
								Time	1200	1205			814		/						
1. Relinquished by: (Signature)				Date/Time		2. Received by: (Signature)				SAMPLE CONDITION UPON RECEIPT IN LAB				REMARKS / SAMPLE COMMENTS							
[Signature]				11/20/24		[Signature]				1. CUSTODY SEALS: ✓ Yes ___ No											
						1210 11/20/24				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											
[Signature]				1458 11-20-24		Jami Nelson				5. TEMPERATURE ON RECEIPT: 2 °C											
										6. TEMPERATURE GUN ID: HHT# 5											
Revision 3 11/19/20												FOR COMPLETION BY LAB ONLY									



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

03 December 2024

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

Project: Lagoon Discharge Sample
Project Number: November 2024
SDG Number: 2411599

Enclosed are the results of analyses for samples received by the laboratory on 26-Nov-24 14:56. 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

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03 December 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: November 2024
Date Received: 26-Nov-24 14:56



CASE NARRATIVE

Sample Delivery Group – 2411599

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

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

03 December 2024



Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: November 2024
Date Received: 26-Nov-24 14:56

ANALYTICAL RESULTS

Lab Number:		2411599-01					
Sample Name:		Lagoon Discharge Grab (Wynne)					
Date/Time Collected:		11/26/24 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	7.33		11/27/24 8:14	B411582	SM 4500-NH3 B,D,C-2021/EPA 250.1	
Fecal Coliforms	MPN/100 mL	TNTC	FC, TNTC	11/26/24 15:07	B411614	IDEXX Colilert-18	
TSS	mg/L	47.5		11/27/24 14:40	B411573	SM 2540 D-2015	
CBOD	mg/L	15.6		11/27/24 6:05	B411578	SM 5210B-2016	

ANALYTICAL RESULTS

Lab Number:		2411599-02					
Sample Name:		Lagoon Discharge Field Analysis (AR Analytical)					
Date/Time Collected:		11/26/24 11:37					
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		11/26/24 11:37	B411626	SM 4500-O G-2011	
pH	S.U.	7.62		11/26/24 11:37	B411624	SM 4500-H+ B-2011	
Temperature	°C	14.4		11/26/24 11:37	B411625	SM 2550B-2000	

03 December 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: November 2024
Date Received: 26-Nov-24 14:56



QUALITY CONTROL RESULTS

Wet Chemistry -- Batch: B411573 (Water)

Prepared: 27-Nov-24 14:40 By: MH -- Analyzed: 27-Nov-24 14:40 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	100% / 104%	NA / NA		3.92%	

Wet Chemistry -- Batch: B411578 (Water)

Prepared: 27-Nov-24 06:05 By: CGF -- Analyzed: 27-Nov-24 06:05 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% / 117%	NA / NA		3.69%	

Wet Chemistry -- Batch: B411582 (Water)

Prepared: 27-Nov-24 08:14 By: KJ -- Analyzed: 27-Nov-24 08:14 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	93.2% / NA	92.3% / 94.0%		1.77%	

Wet Chemistry -- Batch: B411614 (Water)

Prepared: 26-Nov-24 15:07 By: KJ -- Analyzed: 26-Nov-24 15:07 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	TNTC MPN/100 mL	13.1%	FC, TNTC

Field Analyses -- Batch: B411624 (Water)

Prepared: 26-Nov-24 08:30 By: MH -- Analyzed: 26-Nov-24 08:30 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	99.9% / 100%	NA / NA		0.143%	

Field Analyses -- Batch: B411625 (Water)

Prepared: 26-Nov-24 09:22 By: MH -- Analyzed: 26-Nov-24 09:22 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	18.9 °C	0.531%	

Field Analyses -- Batch: B411626 (Water)

Prepared: 26-Nov-24 09:22 By: MH -- Analyzed: 26-Nov-24 09:22 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	7.53 mg/L	0.533%	

03 December 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: November 2024
Date Received: 26-Nov-24 14:56



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 :

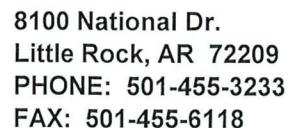
SW 846, Revised December, 1996; EPA 600/4-79-020, Revised March, 1983; Standard Methods.

Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

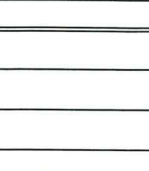
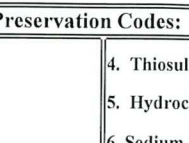
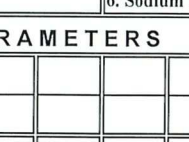
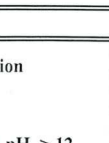
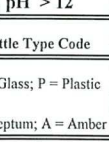
A handwritten signature in blue ink, reading "Norma James", is positioned above a horizontal line.

Reviewed by:

Norma James
Technical Director



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: 2411599	
Field Number		SAMPLE COLLECTION		Grab	Comp	Number of Bottles	Sample Matrix	SAMPLE IDENTIFICATION/ DESCRIPTION		Field (pH, D.O., Temperature)	CBOD, TSS	Ammonia	Fecal Coliform								
		Date/s	Time/s																		
		11/26	10 AM	X		3	Water	Lagoon Discharge Grab (Wynne)			X	X	X					01			
		11/26/24	1137	X		0	Water	Lagoon Discharge Field Analysis (AR Analytical)	X									02			
ONSITE MEASUREMENTS by Arkansas Analytical -- DATE: 11/26/24																					
								Sample	Duplicate	QC	QC Duplicate	Field Calibration Record -- DATE: 11/26/24									
								pH (S.U.)	7.62	7.65	6.99	7.60	pH / Time		D.O.		Chlorine				
								Time	1137	1140	829	830	4		Time		QC Time				
								Temperature (°C)	14.4	14.5	18.6	18.6	7		Slope		1				
								Time	1137	1140	829	830	10				2				
								Dissolved Oxygen (mg/L)	1019	1024			825								
								Time	1137	1140											
1. Relinquished by: (Signature)				Date/Time		2. Received by: (Signature)				SAMPLE CONDITION UPON RECEIPT IN LAB				REMARKS / SAMPLE COMMENTS							
				11/26						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 ___											
				11/26/24						5. TEMPERATURE ON RECEIPT: 3 °C											
										6. TEMPERATURE GUN ID: HHT# 5											
Revision 3 1/4/16										FOR COMPLETION BY LAB ONLY											