



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

10 May 2024

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

Project: Lagoon Discharge Sample

Project Number: May 2024

SDG Number: 2405012

Enclosed are the results of analyses for samples received by the laboratory on 01-May-24 14:32. 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.

10 May 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: May 2024
Date Received: 01-May-24 14:32



CASE NARRATIVE

Sample Delivery Group – 2405012

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.
CI-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).

10 May 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: May 2024
Date Received: 01-May-24 14:32



ANALYTICAL RESULTS

Lab Number:		2405012-01					
Sample Name:		Lagoon Discharge Grab (Wynne)					
Date/Time Collected:		5/1/24 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	19.8		5/3/24 8:10	B405073	SM 4500-NH3 B,D,C-2011	
Fecal Coliforms	MPN/100 mL	11		5/1/24 15:10	B405036	IDEXX Colilert-18	
TSS	mg/L	8.50		5/2/24 8:03	B405022	SM 2540 D-2015	
CBOD	mg/L	< 2.00	B-01	5/2/24 7:02	B405018	SM 5210B-2016	

ANALYTICAL RESULTS

Lab Number:		2405012-02					
Sample Name:		Lagoon Discharge Field Analysis (AR Analytical)					
Date/Time Collected:		5/1/24 11:03					
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	5.05		5/1/24 11:05	B405147	SM 4500-O G-2011	
pH	S.U.	7.71		5/1/24 11:05	B405145	SM 4500-H+ B-2011	
Temperature	°C	25.3		5/1/24 11:05	B405146	SM 2550B-2000	

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QUALITY CONTROL RESULTS

Wet Chemistry -- Batch: B405018 (Water)

Prepared: 02-May-24 07:02 By: KD -- Analyzed: 02-May-24 07:02 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	111% / 107%	NA / NA		3.76%	

Wet Chemistry -- Batch: B405022 (Water)

Prepared: 02-May-24 08:03 By: BH -- Analyzed: 02-May-24 08:03 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	106% / 106%	NA / NA		0.00%	

Wet Chemistry -- Batch: B405036 (Water)

Prepared: 01-May-24 15:10 By: KJ -- Analyzed: 01-May-24 15:10 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	1 MPN/100 mL	66.7%	

Wet Chemistry -- Batch: B405073 (Water)

Prepared: 03-May-24 08:10 By: KJ -- Analyzed: 03-May-24 08:10 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	92.6% / NA	98.0% / 95.8%		2.31%	

Field Analyses -- Batch: B405145 (Water)

Prepared: 01-May-24 07:56 By: SR -- Analyzed: 01-May-24 07:56 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>
pH (Field)	NA	100% / 100%	NA / NA		0.285%	

Field Analyses -- Batch: B405146 (Water)

Prepared: 01-May-24 11:06 By: SR -- Analyzed: 01-May-24 11:06 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>
Temperature (Field)	NA	NA / NA	NA / NA	25.1 °C	0.794%	

Field Analyses -- Batch: B405147 (Water)

Prepared: 01-May-24 11:06 By: CNW -- Analyzed: 01-May-24 11:06 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>
Dissolved Oxygen (Field)	NA	NA / NA	NA / NA	5.09 mg/L	0.789%	

QUALIFIER(S)

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

10 May 2024

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121 East Merriman
Wynne, AR 72396
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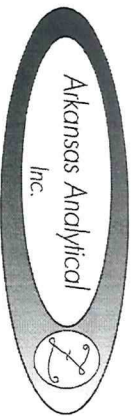


All Analysis performed according to EPA approved methodology when available :
SW 846, Revised December, 1996; EPA 600/4-79-020, Revised March, 1983; Standard Methods.
Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

A handwritten signature in blue ink, 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			
121 East Merriman				Weekly Sample				2 Day (50%)				2. Sulfuric Acid (H ₂ SO ₄), pH < 2			
Wynne, AR 72396				Reporting Information				3 Day (25%)				3. Nitric Acid (HNO ₃), pH < 2			
				Telephone: 870-238-2751				5 Day (Routine)				TEST PARAMETERS			
Attn: Josh Weaver				Fax: 870-238-2044				Preservative Code:				Bottle Type Code			
				Email: jweaver.wvu@gmail.com				Bottle Type:				G = Glass, P = Plastic V = Septum, A = Amber			
Sample(s) Signature: <i>Josh Weaver</i>				Sample(s) Printed: <i>Josh Weaver</i>								Arkansas Analytical Work Order Number: <i>2405010</i>			
Field Number	SAMPLE COLLECTION Dates	Time/s	Grab	Comp	Number of Bottles	Sample Matrix	IDENTIFICATION/ DESCRIPTION				Field (pH, D.O., Temperature)				
	5/1	104m	X		3	Water	Lagoon Discharge Grab (Wynne)				X	X	X	01	
	5/1/24	1103	X		0	Water	Lagoon Discharge Field Analysis (AR Analytical)				X			02	
ONSITE MEASUREMENTS by Arkansas Analytical -- DATE: 5/1/24															
Sample		Duplicate		QC		QC Duplicate		Field Calibration Record -- DATE: 5/1/24							
pH (S.U.)		7.71		7.75		7.00		7.02		pH / Time		D.O.		Chlorine	
Time		1105		1106		0765		0754		4 0752		Time		QC Time	
Temperature (°C)		25.3		25.1		20.6		20.4		7 0753		0758		1	
Time		1105		1106		0755		0756		10 0754		Slope		2	
Dissolved Oxygen (mg/L)		5.05		5.07		8.65		8.73							
Time		1105		1107		0758		0759							
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															
FOR COMPLETION BY LAB ONLY															

3. Relinquished by: (Signature)

Date/Time

4. Received by lab: (Signature)

1. Relinquished by: (Signature)

Date/Time

2. Received by: (Signature)

Date/Time

Revision 3

14446



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

16 May 2024

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

Project: Lagoon Discharge Sample

Project Number: May 2024

SDG Number: 2405239

Enclosed are the results of analyses for samples received by the laboratory on 08-May-24 14:49. 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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16 May 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: May 2024
Date Received: 08-May-24 14:49



CASE NARRATIVE

Sample Delivery Group – 2405239

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

Holding Time Exceedance (E2-PF): Estimated Result; Sample was not able to be analyzed within required holding time requirements due to power failure.

16 May 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: May 2024
Date Received: 08-May-24 14:49



ANALYTICAL RESULTS

Lab Number:		2405239-01				
Sample Name:		Lagoon Discharge Grab (Wynne)				
Date/Time Collected:		5/8/24 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	19.3		5/13/24 8:30	B405231	SM 4500-NH3 B,D,C-2011
Fecal Coliforms	MPN/100 mL	21	E2-PF	5/9/24 14:10	B405222	IDEXX Colilert-18
TSS	mg/L	10.0		5/14/24 7:33	B405257	SM 2540 D-2015
CBOD	mg/L	4.33		5/10/24 6:56	B405188	SM 5210B-2016

ANALYTICAL RESULTS

Lab Number:		2405239-02				
Sample Name:		Lagoon Discharge Field Analysis (AR Analytical)				
Date/Time Collected:		5/8/24 11:01				
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	5.43		5/8/24 11:04	B405320	SM 4500-O G-2011
pH	S.U.	7.73		5/8/24 11:03	B405318	SM 4500-H+ B-2011
Temperature	°C	25.9		5/8/24 11:03	B405319	SM 2550B-2000

16 May 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: May 2024
Date Received: 08-May-24 14:49



QUALITY CONTROL RESULTS

Wet Chemistry -- Batch: B405188 (Water)

Prepared: 10-May-24 06:56 By: MB -- Analyzed: 10-May-24 06:56 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	127% / 117%	NA / NA		8.21%	

Wet Chemistry -- Batch: B405222 (Water)

Prepared: 09-May-24 14:10 By: KJ -- Analyzed: 09-May-24 14:10 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: B405231 (Water)

Prepared: 13-May-24 08:30 By: KJ -- Analyzed: 13-May-24 08:30 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>
Ammonia as N	<0.500 mg/L	87.1% / NA	87.2% / 83.2%		4.54%	

Wet Chemistry -- Batch: B405257 (Water)

Prepared: 14-May-24 07:33 By: MB -- Analyzed: 14-May-24 07:33 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>
TSS	<1.00 mg/L	100% / 108%	NA / NA		7.69%	

Field Analyses -- Batch: B405318 (Water)

Prepared: 08-May-24 08:00 By: SR -- Analyzed: 08-May-24 08:00 By: SR

<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	99.7% / 99.7%	NA / NA		0.00%	

Field Analyses -- Batch: B405319 (Water)

Prepared: 08-May-24 09:09 By: SR -- Analyzed: 08-May-24 09:09 By: SR

<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	21.7 °C	0.917%	

Field Analyses -- Batch: B405320 (Water)

Prepared: 08-May-24 09:09 By: SR -- Analyzed: 08-May-24 09:09 By: SR

<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	7.84 mg/L	0.897%	

QUALIFIER(S)

*E2-PF: Estimated Result; Sample was not able to be analyzed within required holding time requirements due to power failure.

16 May 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: May 2024
Date Received: 08-May-24 14:49

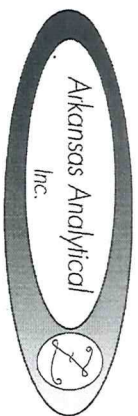


All Analysis performed according to EPA approved methodology when available :
SW 846, Revised December, 1996; EPA 600/4-79-020, Revised March, 1983; Standard Methods.
Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

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							
121 East Merriman				Weekly Sample				2 Day (50%)				2. Sulfuric Acid (H ₂ SO ₄), pH < 2							
Wynne, AR 72396				Reporting Information				3 Day (25%)				3. Nitric Acid (HNO ₃), pH < 2							
Attn: Josh Weaver				Telephone: 870-238-2751				5 Day (Routine)				TEST PARAMETERS							
				Fax: 870-238-2044				Preservative Code:				Bottle Type Code							
				Email: jweaver.wvu@gmail.com				Bottle Type:				G = Glass, P = Plastic V = Septum, A = Amber							
Sampler(s) Signature: <i>Josh Weaver</i>				Sampler(s) Printed: Josh Weaver				Field (pH, D.O., Temperature)				Arkansas Analytical Work Order Number: 2405234							
Field Number		SAMPLE COLLECTION Date/s Time/s		Grab	Comp	Number of Bottles	Sample Matrix	IDENTIFICATION/ DESCRIPTION		Field (pH, D.O., Temperature)		CBOD, TSS		Ammonia		Fecal Coliform			
		5/8 12:45		X		3	Water	Lagoon Discharge Grab (Wynne)		X	X	X					01		
		5/8/24 11:01		X		0	Water	Lagoon Discharge Field Analysis (AR Analytical)	X								02		
ONSITE MEASUREMENTS by Arkansas Analytical -- DATE: 5/8/24																			
				Sample		Duplicate		QC		QC Duplicate		Field Calibration Record -- DATE: 5/8/24							
				pH (S.U.)		7.73		7.75		6.98		6.98		pH / Time					
				Time		14:03		17:05		07:59		08:00		D.O.					
				Temperature (°C)		25.9		26.2		22.5		22.5		Time					
				Time		11:03		11:05		07:59		08:00		QC Time					
				Dissolved Oxygen (mg/L)		5.43		5.60		8.36		8.34		Slope					
				Time		11:04		11:06		08:03		08:04		94.2					
1. Relinquished by: (Signature)				Date/Time				2. Received by: (Signature)				Date/Time				REMARKS / SAMPLE COMMENTS			
<i>Josh Weaver</i>				5/8				<i>Josh Weaver</i>				5/8/24 10:54							
3. Relinquished by: (Signature)				Date/Time				4. Received by lab: (Signature)				Date/Time							
<i>Josh Weaver</i>				5/8/24 14:49				<i>Sydney Stines</i>											
Revision 3				14446				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							
FOR COMPLETION BY LAB ONLY																			



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

23 May 2024

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

Project: Lagoon Discharge Sample

Project Number: May 2024

SDG Number: 2405413

Enclosed are the results of analyses for samples received by the laboratory on 15-May-24 15:45. 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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23 May 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: May 2024
Date Received: 15-May-24 15:45



ANALYTICAL RESULTS

Lab Number:		2405413-01				
Sample Name:		Lagoon Discharge Grab (Wynne)				
Date/Time Collected:		5/15/24 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	22.9		5/20/24 13:27	B405414	SM 4500-NH3 B,D,C-2011
Fecal Coliforms	MPN/100 mL	86		5/15/24 16:00	B405409	IDEXX Colilert-18
TSS	mg/L	23.0		5/17/24 16:19	B405361	SM 2540 D-2015
CBOD	mg/L	3.53		5/17/24 6:59	B405364	SM 5210B-2016

ANALYTICAL RESULTS

Lab Number:		2405413-02				
Sample Name:		Lagoon Discharge Field Analysis (AR Analytical)				
Date/Time Collected:		5/15/24 12:35				
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		5/15/24 12:35	B405449	SM 4500-O G-2011
pH	S.U.	7.76		5/15/24 12:35	B405446	SM 4500-H+ B-2011
Temperature	°C	25.6		5/15/24 12:35	B405448	SM 2550B-2000

23 May 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: May 2024
Date Received: 15-May-24 15:45



QUALITY CONTROL RESULTS

Wet Chemistry -- Batch: B405361 (Water)

Prepared: 17-May-24 11:00 By: MH -- Analyzed: 17-May-24 16:19 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	111% / 117%	NA / NA		5.26%	

Wet Chemistry -- Batch: B405364 (Water)

Prepared: 17-May-24 06:59 By: KD -- Analyzed: 17-May-24 06:59 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	125% / 127%	NA / NA		1.63%	

Wet Chemistry -- Batch: B405409 (Water)

Prepared: 15-May-24 15:45 By: KJ -- Analyzed: 15-May-24 15:45 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	150 MPN/100 mL	0.00%	

Wet Chemistry -- Batch: B405414 (Water)

Prepared: 20-May-24 08:14 By: KJ -- Analyzed: 20-May-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	92.0% / NA	90.0% / 93.0%		3.26%	

Field Analyses -- Batch: B405446 (Water)

Prepared: 15-May-24 08:28 By: MH -- Analyzed: 15-May-24 08:28 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>
pH (Field)	NA	100% / 100%	NA / NA		0.143%	

Field Analyses -- Batch: B405448 (Water)

Prepared: 20-May-24 14:35 By: MH -- Analyzed: 20-May-24 14:35 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	25.8 °C	0.388%	

Field Analyses -- Batch: B405449 (Water)

Prepared: 15-May-24 14:35 By: MH -- Analyzed: 15-May-24 14:35 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	6.17 mg/L	0.485%	

23 May 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: May 2024
Date Received: 15-May-24 15:45

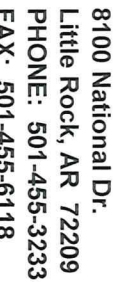


All Analysis performed according to EPA approved methodology when available :
SW 846, Revised December, 1996; EPA 600/4-79-020, Revised March, 1983; Standard Methods.
Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

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

Reviewed by:

Norma James
Technical Director

[illegible]



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

30 May 2024

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

Project: Lagoon Discharge Sample

Project Number: May 2024

SDG Number: 2405633

Enclosed are the results of analyses for samples received by the laboratory on 22-May-24 14:55. 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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30 May 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: May 2024
Date Received: 22-May-24 14:55



ANALYTICAL RESULTS

Lab Number:		2405633-01				
Sample Name:		Lagoon Discharge Grab (Wynne)				
Date/Time Collected:		5/22/24 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	10.6		5/29/24 12:14	B405662	SM 4500-NH3 B,D,C-2011
Fecal Coliforms	MPN/100 mL	340		5/22/24 15:15	B405550	IDEXX Colilert-18
TSS	mg/L	55.9		5/24/24 9:50	B405524	SM 2540 D-2015
CBOD	mg/L	7.35		5/23/24 7:00	B405537	SM 5210B-2016

ANALYTICAL RESULTS

Lab Number:		2405633-02				
Sample Name:		Lagoon Discharge Field Analysis (AR Analytical)				
Date/Time Collected:		5/22/24 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	9.15		5/22/24 11:40	B405584	SM 4500-O G-2011
pH	S.U.	8.28		5/22/24 11:40	B405582	SM 4500-H+ B-2011
Temperature	°C	27.1		5/22/24 11:40	B405583	SM 2550B-2000

30 May 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: May 2024
Date Received: 22-May-24 14:55



QUALITY CONTROL RESULTS

Wet Chemistry -- Batch: B405524 (Water)

Prepared: 24-May-24 09:50 By: MH -- Analyzed: 24-May-24 09:50 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	87.0% / 86.0%	NA / NA		1.16%	

Wet Chemistry -- Batch: B405537 (Water)

Prepared: 23-May-24 07:00 By: KD -- Analyzed: 23-May-24 07:00 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	118% / 125%	NA / NA		5.80%	

Wet Chemistry -- Batch: B405550 (Water)

Prepared: 22-May-24 15:15 By: KJ -- Analyzed: 22-May-24 15:15 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	0.00%	FC, TNTC

Field Analyses -- Batch: B405582 (Water)

Prepared: 22-May-24 08:27 By: MH -- Analyzed: 22-May-24 08:27 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		0.285%	

Field Analyses -- Batch: B405583 (Water)

Prepared: 22-May-24 13:45 By: MH -- Analyzed: 22-May-24 13:45 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	0.00%	

Field Analyses -- Batch: B405584 (Water)

Prepared: 22-May-24 13:45 By: MH -- Analyzed: 22-May-24 13:45 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	7.12 mg/L	0.281%	

Wet Chemistry -- Batch: B405662 (Water)

Prepared: 29-May-24 12:14 By: MB -- Analyzed: 29-May-24 12:14 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>
Ammonia as N	<0.500 mg/L	90.8% / NA	81.4% / 81.0%		0.480%	

30 May 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: May 2024
Date Received: 22-May-24 14:55



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**

[illegible]



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

04 June 2024

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

Project: Lagoon Discharge Sample

Project Number: May 2024

SDG Number: 2405793

Enclosed are the results of analyses for samples received by the laboratory on 29-May-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	1.0°C

Sincerely,

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

Norma James
Technical Director

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04 June 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: May 2024
Date Received: 29-May-24 14:56



CASE NARRATIVE

Sample Delivery Group – 2405793

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

04 June 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: May 2024
Date Received: 29-May-24 14:56



ANALYTICAL RESULTS

Lab Number:		2405793-01					
Sample Name:		Lagoon Discharge Grab (Wynne)					
Date/Time Collected:		5/29/24 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	< 1.00		5/31/24 8:38	B405704	SM 4500-NH3 B,D,C-2021/EPA	
Fecal Coliforms	MPN/100 mL	TNTC	FC, TNTC	5/29/24 15:00	B405732	IDEXX Colilert-18	
TSS	mg/L	36.5		5/31/24 13:49	B405672	SM 2540 D-2015	
CBOD	mg/L	13.3		5/30/24 7:00	B405665	SM 5210B-2016	

ANALYTICAL RESULTS

Lab Number:		2405793-02					
Sample Name:		Lagoon Discharge Field Analysis (AR Analytical)					
Date/Time Collected:		5/29/24 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	12.4		5/29/24 11:40	B405719	SM 4500-O G-2011	
pH	S.U.	8.02		5/29/24 11:40	B405717	SM 4500-H+ B-2011	
Temperature	°C	28.3		5/29/24 11:40	B405718	SM 2550B-2000	

04 June 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: May 2024
Date Received: 29-May-24 14:56



QUALITY CONTROL RESULTS

Wet Chemistry -- Batch: B405665 (Water)

Prepared: 30-May-24 07:00 By: KD -- Analyzed: 30-May-24 07:00 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	124% / 122%	NA / NA		1.91%	

Wet Chemistry -- Batch: B405672 (Water)

Prepared: 29-May-24 16:15 By: MH -- Analyzed: 29-May-24 16:15 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	89.0% / 93.0%	NA / NA		4.40%	

Wet Chemistry -- Batch: B405704 (Water)

Prepared: 31-May-24 08:38 By: KJ -- Analyzed: 31-May-24 08:38 By: JB

<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	92.5% / NA	92.1% / 90.1%		1.88%	

Field Analyses -- Batch: B405717 (Water)

Prepared: 29-May-24 08:22 By: MH -- Analyzed: 29-May-24 08:22 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>
pH (Field)	NA	100% / 100%	NA / NA		0.285%	

Field Analyses -- Batch: B405718 (Water)

Prepared: 29-May-24 13:40 By: MH -- Analyzed: 29-May-24 13:40 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>
Temperature (Field)	NA	NA / NA	NA / NA	27.2 °C	0.00%	

Field Analyses -- Batch: B405719 (Water)

Prepared: 29-May-24 13:40 By: MH -- Analyzed: 29-May-24 13:40 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>
Dissolved Oxygen (Field)	NA	NA / NA	NA / NA	7.03 mg/L	0.426%	

Wet Chemistry -- Batch: B405732 (Water)

Prepared: 29-May-24 15:00 By: KJ -- Analyzed: 29-May-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	49 MPN/100 mL	4.84%	

04 June 2024

Josh Weaver
Wynne Water Utilities
121 East Merriman
Wynne, AR 72396
Project: Lagoon Discharge Sample
Project Number: May 2024
Date Received: 29-May-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



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

CHAIN OF CUSTODY RECORD

CLIENT INFORMATION				Project Description		Preservation Codes:									
Wynne Water Utilities				Lagoon Discharge Sample		1. Cool, 6 Degrees Centigrade									
121 East Merriman				Weekly Sample		2. Sulfuric Acid (H ₂ SO ₄), pH < 2									
Wynne, AR 72396				Reporting Information		3. Nitric Acid (HNO ₃), pH < 2									
				Telephone: 870-238-2751		5 Day (Routine)									
Attn: Josh Weaver				Fax: 870-238-2044		Preservative Code:									
				Email: jweaver.www@gmail.com		Bottle Type:									
Sampler(s) Signature: <i>Josh Weaver</i>				Sampler(s) Printed: <i>Josh Weaver</i>		SAMPLE IDENTIFICATION / DESCRIPTION									
Field Number	SAMPLE COLLECTION Date/s	Time/s	Grab	Comp	Number of Bottles	Sample Matrix	Field (pH, D.O., Temperature)				CBOD, TSS	Ammonia	Fecal Coliform	Arkansas Analytical Work Order Number: 2405793	
	5/25	10:44	X		3	Water	Lagoon Discharge Grab (Wynne)		X	X	X			01	
	5/25	11:40	X		0	Water	Lagoon Discharge Field Analysis (AR Analytical)	X						02	
ONSITE MEASUREMENTS by Arkansas Analytical -- DATE: 5/29/24															
Sample		Duplicate		QC		QC Duplicate		Field Calibration Record -- DATE: 5/29/24							
pH (S.U.)		802		806		701		703		pH / Time		D.O.		Chlorine	
Time		11:40		11:45		8:20		8:22		4		Time		QC Time	
Temperature (°C)		28.3		28.4		23.2		23.2		7		Time		1	
Dissolved Oxygen (mg/L)		1036		1240		820		822		10		Slope		2	
Time		11:40		11:45						8:15					
1. Relinquished by: (Signature)				Date/Time		2. Received by: (Signature)				SAMPLE CONDITION UPON RECEIPT IN LAB				REMARKS / SAMPLE COMMENTS	
<i>Josh Weaver</i>				5/25		<i>1152</i> <i>5/29/24</i>				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: 1 °C					
										6. TEMPERATURE GUN ID: HHT# 5					
3. Relinquished by: (Signature)				Date/Time		4. Received by lab: (Signature)									
				1456 5/29/24		<i>Sydney JAMES</i>									
Revision 3															
14446															