

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

10 October 2024

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

Project: Lagoon Discharge Sample Project Number: October 2024 SDG Number: 2410057

Enclosed are the results of analyses for samples received by the laboratory on 02-Oct-24 14:35. 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,

Norma

Norma James Technical Director

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Josh Weaver Wynne Water Utilities 121 East Merriman Wynne, AR 72396 Project: Lagoon Discharge Sample Project Number: October 2024 Date Received: 02-Oct-24 14:35



Sample Delivery Group - 2410057

Arkansas Analytical

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:

Qualifier	Description
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).

FECAL COLIFORM QUALIFIERS:

Qualifier	Description
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

Josh Weaver Wynne Water Utilities 121 East Merriman Wynne, AR 72396 Project: Lagoon Discharge Sample Project Number: October 2024 Date Received: 02-Oct-24 14:35

ANALYTICAL RESULTS

Lab Number: Sample Name: Date/Time Collected: Sample Matrix:	Lagoor	2410057-01 n Discharge Grab (W 10/2/24 10:00 Water	/ynne)			
Wet Chemistry	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	Date/Time Analyzed	<u>Batch</u>	<u>Method</u>
Ammonia as N	mg/L	< 0.500		10/3/24 8:18	B410054	SM 4500-NH3 B,D,C-2021/EPA
Fecal Coliforms	MPN/100 mL	TNTC	FC, TNTC	10/2/24 15:02	B410111	IDEXX Colilert-18
TSS	mg/L	25.5		10/4/24 8:50	B410051	SM 2540 D-2015
CBOD	mg/L	8.60	B-04	10/3/24 6:55	B410042	SM 5210B-2016

ANALYTICAL RESULTS

Lab Number: Sample Name: Date/Time Collected: Sample Matrix:	Lagoon Di	2410057-02 scharge Field Analysis (AR 10/2/24 11:18 Water	Analytical)			
Field Analyses	<u>Units</u>	Result	<u>Qualifier(s)</u>	Date/Time Analyzed	Batch	<u>Method</u>
Dissolved Oxygen	mg/L	9.02		10/2/24 11:18	B410138	SM 4500-O G-2011
pН	S.U.	7.50		10/2/24 11:18	B410136	SM 4500-H+ B-2011
Temperature	°C	22.7		10/2/24 11:18	B410137	SM 2550B-2000



Josh Weaver Wynne Water Utilities 121 East Merriman Wynne, AR 72396 Project: Lagoon Discharge Sample Project Number: October 2024 Date Received: 02-Oct-24 14:35

QUALITY CONTROL RESULTS

	Prenared: 03	Wet Chemistry Bat	ch: B410042 (Water) Analyzed: 03-Oct-24 06:{	5 By: CGE		
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
CBOD	<2.00 mg/L	150% / 141%	NA / NA		6.46%	duamere
		Wet Chemistry Bat	ch: B410051 (Water)			
	Prepared: 04	-	Analyzed: 04-Oct-24 08:	50 By: MH		
Analyte	<u>BLK</u>	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
TSS	<1.00 mg/L	94.0% / 92.0%	NA / NA		2.15%	
	Prepared: 0	Wet Chemistry Bat 3-Oct-24 08:18 By: KJ	ch: B410054 (Water) · Analyzed: 03-Oct-24 08:	18 By: KJ		
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Ammonia as N	<0.500 mg/L	93.4% / NA	99.7% / 99.8%		0.170%	
	Prepared: 0	Wet Chemistry Bat 2-Oct-24 15:02 By: KJ	ch: B410111 (Water) · Analyzed: 02-Oct-24 15:	02 Bv: 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
	Prepared: 02	Field Analyses Bate 2-Oct-24 09:23 Bv: MH	ch: B410136 (Water) Analyzed: 02-Oct-24 09:	23 By: MH		
Analyte	BLK	LCS / LCSD	MS / MSD	<u>Dup</u>	RPD	Qualifiers
pH (Field)	NA	101% / 101%	NA / NA		0.142%	
	Prepared: 02	Field Analyses Bat POct-24 09:34 By: MH	ch: B410137 (Water) · Analyzed: 02-Oct-24 09:	34 By: MH		
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Temperature (Field)	NA	NA / NA	NA / NA	23.4 °C	0.00%	
	Prepared: 02	Field Analyses Bat 2-Oct-24 09:34 By: MH	ch: B410138 (Water) · Analyzed: 02-Oct-24 09:	34 By: MH		
Analyte	BLK	LCS / LCSD	MS / MSD	<u>Dup</u>	RPD	Qualifiers
Dissolved Oxygen (Field)	NA	NA / NA	NA / NA	7.48 mg/L	0.536%	

Josh Weaver Wynne Water Utilities 121 East Merriman Wynne, AR 72396 Project: Lagoon Discharge Sample Project Number: October 2024



Project Number: October 2024 Date Received: 02-Oct-24 14:35

QUALIFIER(S)

*B-04:	Test replicates show a >30% difference between the highest and lowest values
*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.

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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 INFORM	MATION						Project Des	cription	Turnaround Time					Pres	ervatio	on Code	s:		
Wynne Water U	tilities						Lagoon Discha	rge Sample	1 Day (100%)	1. Cool	, 6 Degr	ees Centi	grade			4. Thio	sulfate f	or Dech	lorination
121 East Merriman				Weekly Sample		2 Day (50%)	2. Sulfuric Acid (H ₂ SO ₄), pH <			pH < 2 5. Hydrochloric Acid(HCl)		łCl)							
Wynne, AR 7239	96						Reporting Inf	ormation	3 Day (25%)	3. Nitri	c Acid (HNO3), p	0H < 2			6. Sodiı	ım Hydr	oxide (1	NaOH), pH > 12
							Telephone: 870)-238-2751	5 Day (Routine)	>		TES	ТР	ARA	WETERA		Bottle Type Code		
Attn: Josh Weav	ver						Fax: 870-23	8-2044	Preservative Code	: 1	1	1,2	1,4					8	G = Glass; P = Plastic
						E	mail: jweaver.ww	u@gmail.com	Bottle Type:	P	Р	Р	Р						V = Septum; A = Amber
Sampler(s) Sign			Sam	pler(s)	Jo Print	sh	Weeve AHDIHA			Field (pH, D.O., Temperature)	CBOD, TSS	lia	Coliform				1		Arkansas Analytical Work Order Number:
Field		OLLECTION			Number of	Sample		SAMPLE		ald (p	SOD	Ammonia	Fecal (2410057
Number	Date/s	Time/s	Grab	Comp		Matrix	IDENTIF	ICATION/ DESC	RIPTION	Fie Te	CE	An	Fe						KTIWST
	10/2	10,AM	Х		3	Water	Lagoon Discha	rge Grab (Wynne	e)		Х	Х	Х						01
	10,2,24	1118	X		0	Water	Lagoon Discha	rge Field Analysi	s (AR Analytical)	X									02
							ONSITE MEAS	UREMENTS by	Arkansas Analyt	tical D	DATE:	02/0	24						
								Sample	Duplicate	Q		QC Du	11						
							pH (S.U.)	750	746	706		705		Field C	Calibra	tion Rec	ord	DATE	10/2/24
							Time	1118	1124	92	1	923		рН / ⁻	Time	D.0	Э.		Chlorine
							Temperature (°C)	22.7	22-8	18:	5	18.5		4		Tin	je	QC	Time
							Time	1118	1124	92		923		7	1			1	and a start of the
							Dissolved Oxygen (mg/L)	9.02	9.06	10				10		Slo	pe	2	
							Time	10	1124							/			
1. Relinguished by:	(Signature)	Date/Time		2. Rec	eived I	by: (Si	gnature)	SAMPLE C	ONDITION UPON F	RECEIPT	IN LAE			RE	MARK	(S / SAN		COMN	IENTS
		10/2			١	12	0	1. CUSTODY SEA											
for		107 -			16	15	U				iا								
1 m	/			٨	10	52	1	2. CONTAINERS		Yes	s!	No							
				/		1		3. COC/LABELS A	GREE:	Yes	۱ <u></u> ۱	NO		2					
3. Relinguished by:	(Signature)	Date/Time		<u>4. Rec</u>	eived b	by lab:	(Signature)	4. RECEIVED ON	ICE:	Yes	۱	Vo							
		1435 10,2,24			A	Vata	ha	5. TEMPERATUR	E ON RECEIPT: 🥻	2 °C	5								
11-		10.2,201			0	1	(6. TEMPERATUR	E GUN ID:	HHT#									
Revision 3		11			d	rousa	nd.	FOR	COMPLETION BY L	AB ONL	Y								



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

15 October 2024

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

Project: Lagoon Discharge Sample Project Number: October 2024 SDG Number: 2410226

Enclosed are the results of analyses for samples received by the laboratory on 09-Oct-24 15:12. 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,

Norma

Norma James Technical Director

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Josh Weaver Wynne Water Utilities 121 East Merriman Wynne, AR 72396 Project: Lagoon Discharge Sample Project Number: October 2024 Date Received: 09-Oct-24 15:12

ANALYTICAL RESULTS

Lab Number: Sample Name: Date/Time Collected: Sample Matrix:	Lagoor	2410226-01 n Discharge Grab (\ 10/9/24 10:00 Water	Wynne)			
<u>Wet Chemistry</u> Ammonia as N Fecal Coliforms TSS CBOD	<u>Units</u> mg/L MPN/100 mL mg/L mg/L	<u>Result</u> < 0.500 1200 22.0 11.2	<u>Qualifier(s)</u>	Date/Time Analyzed 10/11/24 8:32 10/9/24 15:15 10/11/24 10:02 10/10/24 6:50	<u>Batch</u> B410247 B410219 B410198 B410199	Method SM 4500-NH3 B,D,C-2021/EPA 260 1 IDEXX Colliert-18 SM 2540 D-2015 SM 5210B-2016
ANALYTICAL RESULTS Lab Number:		2410226-02				

Lab Number: Sample Name:	Lagoon Di	2410226-02 scharge Field Analysis (AR	Analytical)			
Date/Time Collected:		10/9/24 12:05				
Sample Matrix:		Water				
Field Analyses	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	Date/Time Analyzed	<u>Batch</u>	Method
Dissolved Oxygen	mg/L	14.0		10/9/24 12:05	B410295	SM 4500-O G-2011
рН	S.U.	8.59		10/9/24 12:05	B410293	SM 4500-H+ B-2011
Temperature	°C	22.6		10/9/24 12:05	B410294	SM 2550B-2000

Josh Weaver Wynne Water Utilities 121 East Merriman Wynne, AR 72396 Project: Lagoon Discharge Sample Project Number: October 2024 Date Received: 09-Oct-24 15:12

QUALITY CONTROL RESULTS

	Prepared: 11	Wet Chemistry Batc -Oct-24 10:02 By: MH A	. ,	02 Bv: MH		
Analyte	BLK	LCS / LCSD	<u>MS / MSD</u>	<u>Dup</u>	RPD	Qualifiers
TSS	<1.00 mg/L	89.0% / 91.0%	NA / NA		2.22%	
		Wet Chemistry Batc	h: B410199 (Water)			
	Prepared: 10-	Oct-24 06:50 By: CGF /	Analyzed: 10-Oct-24 06:	50 By: CGF		
<u>Analyte</u>	<u>BLK</u>	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
CBOD	<2.00 mg/L	117% / 114%	NA / NA		2.54%	
	Drenered: 0	Wet Chemistry Batc	. ,	45 D.v. K I		
Analyte	BLK	9-Oct-24 15:15 By: KJ , LCS / LCSD	MS / MSD	<u>Бир</u>	RPD	Qualifiers
Fecal Coliforms	<1 MPN/100 mL	NA / NA	NA / NA	ND MPN/100	NA	quamere
				mL		
	Bronorodi 1	Wet Chemistry Batc 1-Oct-24 08:32 By: KJ	· · ·	22 D.v. K I		
Analyte	BLK	LCS / LCSD	MS / MSD	<u>Dup</u>	RPD	Qualifiers
Ammonia as N	<0.500 mg/L	96.7% / NA	100% / 101%		0.819%	
	Dronovodi 00	Field Analyses Batc		24 D.u. MU		
Analista	BLK	-Oct-24 08:31 By: MH /	MS / MSD	<u>. Dup</u>	RPD	Qualifiers
<u>Analyte</u> pH (Field)	NA	<u>LCS / LCSD</u> 101% / 101%	NA / NA	Bup	0.283%	Quaimers
,						
	Prepared: 09	Field Analyses Batc Oct-24 11:00 By: MH		00 Bv: MH		
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Temperature (Field)	NA	NA / NA	NA / NA	21.0 °C	0.477%	
	Prepared: 00	Field Analyses Batc -Oct-24 11:00 By: MH /		00 Bv: MH		
Analyte	BLK		<u>MS / MSD</u>	<u>Dup</u>	RPD	Qualifiers
						quannere

Arkansas Analytical Inc.

Josh Weaver Wynne Water Utilities 121 East Merriman Wynne, AR 72396 Project: Lagoon Discharge Sample Project Number: October 2024

Date Received: 09-Oct-24 15:12

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.

orma. am

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 Code					s:								
Wynne Water Ut	ilities			7			Lagoon Dischar	ge Sample	1 Day (100%)	1. Cool	, 6 Degr	ees Centi	grade			4. Thiosulfate for Dechlorination			
121 East Merrim	an						Weekly Sa	ample	2 Day (50%)	2. Sulfu	iric Acid	(H_2SO_4)	, pH < 2			5. Hydrochloric Acid(HCl)			
Wynne, AR 7239	16						Reporting Inf	3 Day (25%)	3. Nitri	3. Nitric Acid (HNO ₃), pH < 2 6. Sodium Hy					ım Hydı	lydroxide (NaOH), pH > 12			
14						Telephone: 870-238-2751 5 Day (Routine)				>		TES	ТР	ARA	MET	ERS			Bottle Type Code
Attn: Josh Weav	/er					Fax: 870-238-2044 Pres			Preservative Code:	1	1	1,2	1,4						G = Glass; P = Plastic
						E	mail: jweaver.ww i	u@gmail.com	Bottle Type:	Р	Р	Р	Р						V = Septum; A = Amber
					ر Print	ed; MAHDi HADDADi					CBOD, TSS	nia	Coliform						Arkansas Analytical Work Order Number:
Field		OLLECTION			Number of	Sample		SAMPLE		Field (pH Tempera	BOD	Ammonia	Fecal						2410224
Number	Date/s	Time/s	Grab	Comp		Matrix		ICATION/ DESC		ĒΨ	Ū	Ar	ШШ						2910224
	10/9	loam	X	-	3	Water	er Lagoon Discharge Grab (Wynne)				Х	Х	Х						01
	109,24	1205	Х		0	Water	r Lagoon Discharge Field Analysis (AR Analytical)			X									02
	/																		
																	-		
							ONSITE MEAS	UREMENTS by	Arkansas Analyt	tical D	DATE:	09,2	4						
								Sample	Duplicate	Q		QC Du	plicate						
							pH (S.U.)	859	863	708 706			Field (Calibra	tion Re	cord	DATE	109,24	
							Time	1205	1210	83	-		830 831 рН / Т		Time	me D.O.			Chlorine
							Temperature (°C)	22.6	22.4	17.	17.9 18.1		2) 4		Time QC		QC	Time	
							Time	1205	1210	82		831		7	1			1	
							Dissolved Oxygen (mg/L)	13.95	14.0					10		Slo	pe	2	
							Time	1205	1210					82	7	/	1		
1. Relinguished by:	(Signature)	Date/Time		2. Red	eived	by: (Si	gnature)	t	ONDITION UPON F	RECEIPT		3		RE	MARK	S / SAI	MPLE	COMM	IENTS
\square		10/9			1:	215		1. CUSTODY SEA	AI S:	Ve	S	No							
fait					16	720	1												
Mu	Mu Adam				2. CONTAINERS			s											
				<u>/</u>				3. COC/LABELS A	AGREE:	Yes	S	No							
3. Relinquished by: (Signature) Date/Time 4. Received by			4		4. RECEIVED ON	I ICE:	Yes	S	No										
	1512			5. TEMPERATURE ON RECEIPT:			\ ℃	-											
1	1 (1806)					Nelson 6. TEMPERATURE GUN ID: H			HHT# -	>									
Revision 3 7,22							FOR	COMPLETION BY I	LAB ONI	Y									



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

23 October 2024

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

Project: Lagoon Discharge Sample Project Number: October 2024 SDG Number: 2410397

Enclosed are the results of analyses for samples received by the laboratory on 16-Oct-24 15:26. 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,

Norma

Norma James Technical Director

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Josh Weaver Wynne Water Utilities 121 East Merriman Wynne, AR 72396 Project: Lagoon Discharge Sample Project Number: October 2024 Date Received: 16-Oct-24 15:26

ANALYTICAL RESULTS

Lab Number: Sample Name: Date/Time Collected: Sample Matrix:	Lagoo	2410397-01 n Discharge Grab (V 10/16/24 10:00 Water	Vynne)			
Wet Chemistry	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	Date/Time Analyzed	Batch	<u>Method</u>
Ammonia as N	mg/L	< 0.500		10/18/24 8:08	B410396	SM 4500-NH3 B,D,C-2021/EPA
Fecal Coliforms	MPN/100 mL	2000		10/16/24 16:00	B410363	IDEXX Colilert-18
TSS	mg/L	29.6		10/18/24 8:55	B410373	SM 2540 D-2015
CBOD	mg/L	10.4		10/18/24 6:48	B410390	SM 5210B-2016
ANALYTICAL RESULTS						

Lab Number: Sample Name:	Lagoon [2410397-02 Discharge Field Analysis (AR	Analytical)			
Date/Time Collected:		10/16/24 12:05				
Sample Matrix:		Water				
Field Analyses	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	Date/Time Analyzed	<u>Batch</u>	<u>Method</u>
Dissolved Oxygen	mg/L	14.1		10/16/24 12:05	B410443	SM 4500-O G-2011
pН	S.U.	8.96		10/16/24 12:05	B410438	SM 4500-H+ B-2011
Temperature	°C	17.6		10/16/24 12:05	B410441	SM 2550B-2000





QUALITY CONTROL RESULTS

	Prepared: 1	Wet Chemistry Batc 6-Oct-24 15:00 By: KJ	· · ·	:00 Bv: KJ		
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Fecal Coliforms	al Coliforms <1 MPN/100 mL NA / NA NA / NA					
	Prepared: 18	Wet Chemistry Bato Wet Chemistry Bato		:55 By: MH		
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
TSS	<1.00 mg/L	94.0% / 93.0%	NA / NA		1.07%	
		Wet Chemistry Bato				
	Prepared: 18-	Oct-24 06:48 By: CGF	Analyzed: 18-Oct-24 06	:48 By: CGF		
<u>Analyte</u>	BLK	LCS / LCSD	MS / MSD	Dup	<u>RPD</u>	Qualifiers
CBOD	<2.00 mg/L	128% / 131%	NA / NA		2.72%	
	Prepared: 1	Wet Chemistry Bato 8-Oct-24 08:08 By: KJ		:08 Bv: KJ		
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Ammonia as N	<0.500 mg/L	97.5% / NA	104% / 102%		2.21%	
	Proparod: 16	Field Analyses Bato Oct-24 09:20 By: MH		·20 By: MH		
Analyta	BLK		MS / MSD	<u>Dup</u>	RPD	Qualifiers
<u>Analyte</u> pH (Field)	NA	LCS / LCSD 101% / 101%	NA / NA	<u>50</u>	0.282%	Quaimers
		Field Analyses Bato	:h: B410441 (Water)			
	Prepared: 16	-Oct-24 14:17 By: MH		:17 By: MH		
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Temperature (Field)	NA	NA / NA	NA / NA	17.8 °C	0.560%	
	Prepared: 16	Field Analyses Bato Oct-24 14:17 By: MH	. ,	:17 By: MH		
	•	-	MS / MSD	Dup	RPD	Qualifiers
Analyte	<u>BLK</u>	LCS / LCSD	NI2 / NI2D	Dub	RPD	Quaimers

Arkansas Analytical

Josh Weaver Wynne Water Utilities 121 East Merriman Wynne, AR 72396 Project: Lagoon Discharge Sample Project Number: October 2024 Date Received: 16-Oct-24 15:26

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.

orma. am

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

						Project Description Turnaround Tin			Turnaround Time	Preservation Codes:									
Wynne Water Ut	tilities						Lagoon Dischar	ge Sample	1 Day (100%)	1. Cool	, 6 Degre	ees Centi	grade			4. Thiosulfate for Dechlorination			
121 East Merrim	ian						Weekly Sa	ample	2 Day (50%)	2. Sulfu	iric Acid	(H ₂ SO ₄)	, pH < 2	2 5. Hydrochloric Acid(HCl)					ICI)
Wynne, AR 7239	96						Reporting Inf	ormation	3 Day (25%)	3. Nitric Acid (HNO ₃), pH < 2 6.					6. Sodium Hydroxide (NaOH), pH > 12				
			8	-12			Telephone: 870	5 Day (Routine)	TEST PA				PARAMETERS			Bottle Type Code			
Attn: Josh Weav	ver						Fax: 870-23	8-2044	Preservative Code:	: 1	1	1,2	1,4						G = Glass; P = Plastic
						Email: jweaver.wwu@gmail.com Bottle Type				P	Р	Р	Р						V = Septum; A = Amber
-				د ل Print	sh ed:m	Weaver AHDI HAD	DADÍ		Field (pH, D.O., Temperature)	CBOD, TSS	lia	Fecal Coliform						Arkansas Analytical Work Order Number:	
Field	SAMPLE C	OLLECTION			Number of	Sample		SAMPLE		eld (p	OD,	Ammonia	cal O						21/10207
Number	Date/s	Time/s	Grab	Comp		Matrix	IDENTIF	ICATION/ DESC	RIPTION	Tel Tel	CB	Am	Ц. Ч.						E910397
	10/16	lOAM	X		3	Water	Water Lagoon Discharge Grab (Wynne)				Х	Х	Х						01
	10,60,214	1205	X		0	Water	Water Lagoon Discharge Field Analysis (AR Analytical)			x									02
	. / / .																		
							ONSITE MEAS	UREMENTS by	Arkansas Analyt	tical D	DATE	16,2	щ						
								Sample	Duplicate	Q		QC Du	,						
							pH (S.U.)	00	C 1	0.5		207		Field (alibra	tion Re	cord	DATE	10,16,24
									918 920 pH / Time						D.		BITTE	Chlorine	
								12.6	1210	12		12.	0	4					
							Temperature (°C)		1210	Gi	8	92		4	+	111	me	QC	Time
							Time Dissolved Oxygen	1.05	,	110	2	10		1	1			1	
							(mg/L)		1416					10 91	1	Slo	ope	2	
							Time		1210					-	/]	1	
1. Relinquished by:	. Relinquished by: (Signature) Date/Time 2. Received by: (Signature)				<u>gnature)</u>	SAMPLE C	ONDITION UPON F	RECEIPT	IN LAE			RE	MARK	(S / SA	MPLE	COMM	IENTS		
1 July		10/14			1	210	0	1. CUSTODY SEA	ALS:	Ye	sI	No							
1916/24			24	2. CONTAINERS	CORRECT:	Ye	s!	No											
10 la			\rightarrow	3. COC/LABELS A	GREE:	Ye	sI	No											
3. Relinguished by: (Signature) Date/Time 4. Received by lab: ((Signature)	4. RECEIVED ON	ICE:	L_Yes	s1	No					~						
					5. TEMPERATUR	E ON RECEIPT:	2 °c	-											
1	,1526				Na	tas	0.	6. TEMPERATUR		HHT#	5								
Revision 3 / 0,16,24				Howard			0		FOR COMPLETION BY LAB ONLY										



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

30 October 2024

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

Project: Lagoon Discharge Sample Project Number: October 2024 SDG Number: 2410538

Enclosed are the results of analyses for samples received by the laboratory on 23-Oct-24 15:55. 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	2.0°C

Sincerely,

Norma

Norma James Technical Director

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Josh Weaver Wynne Water Utilities 121 East Merriman Wynne, AR 72396 Project: Lagoon Discharge Sample Project Number: October 2024

Date Received: 23-Oct-24 15:55

CASE NARRATIVE Sample Delivery Group – 2410538

Arkansas Analytical

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

QUALIFIERS: Qualifier Description 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

Josh Weaver Wynne Water Utilities 121 East Merriman Wynne, AR 72396 Project: Lagoon Discharge Sample Project Number: October 2024 Date Received: 23-Oct-24 15:55

ANALYTICAL RESULTS

Lab Number: Sample Name: Date/Time Collected: Sample Matrix:	Lagoo	2410538-01 n Discharge Grab (V 10/23/24 10:00 Water	Vynne)			
Wet Chemistry	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	Date/Time Analyzed	<u>Batch</u>	<u>Method</u>
Ammonia as N	mg/L	< 0.500		10/25/24 13:13	B410522	SM 4500-NH3 B,D,C-2021/EPA
Fecal Coliforms	MPN/100 mL	TNTC	FC, TNTC	10/23/24 15:15	B410521	IDEXX Colilert-18
TSS	mg/L	35.7		10/24/24 16:30	B410505	SM 2540 D-2015
CBOD	mg/L	10.4		10/24/24 6:35	B410485	SM 5210B-2016

ANALYTICAL RESULTS

Lab Number: Sample Name: Date/Time Collected: Sample Matrix:	Lagoon D	2410538-02 ischarge Field Analysis (AR 10/23/24 12:52 Water	Analytical)			
Field Analyses	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	Date/Time Analyzed	Batch	<u>Method</u>
Dissolved Oxygen	mg/L	15.4		10/23/24 12:55	B410546	SM 4500-O G-2011
pH	S.U.	9.45		10/23/24 12:52	B410547	SM 4500-H+ B-2011
Temperature	°C	23.2		10/23/24 12:52	B410545	SM 2550B-2000





Wynne, AR 72396 Project Number: October 2024 Date Received: 23-Oct-24 15:55

QUALITY CONTROL RESULTS

	Prepared: 24-	Wet Chemistry Bate Oct-24 06:35 Bv: CGF	ch: B410485 (Water) · Analyzed: 24-Oct-24 06::	35 Bv: CGF		
<u>Analyte</u> CBOD	<u>BLK</u> <2.00 mg/L	LCS / LCSD 121% / 127%	<u>MS / MSD</u> NA / NA	<u>Dup</u>	<u>RPD</u> 4.98%	Qualifiers
	Prenared: 2/	Wet Chemistry Bate	ch: B410505 (Water) Analyzed: 24-Oct-24 16::	30 By: MH		
Analyte	BLK	LCS / LCSD	MS / MSD	<u>Dup</u>	RPD	Qualifiers
TSS	<1.00 mg/L	87.0% / 88.0%	NA / NA	_	1.14%	
	Prepared: 2	Wet Chemistry Bate 3-Oct-24 15:15 By: DG	ch: B410521 (Water) Analyzed: 23-Oct-24 15:′	15 Bv: DG		
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Fecal Coliforms	<1 MPN/100 mL	NA / NA	NA / NA	TNTC MPN/100 mL	24.5%	FC, TNTC
<u>Analyte</u> Ammonia as N	<u>BLK</u> <0.500 mg/L	<u>LCS / LCSD</u> 94.8% / NA	Analyzed: 25-Oct-24 13: <u>MS / MSD</u> 95.2% / 93.7%	<u>Dup</u>	<u>RPD</u> 1.47%	Qualifier
	Bronarod: 22	Field Analyses Bate	ch: B410545 (Water) Analyzed: 23-Oct-24 14:4	16 By: MH		
Analyte	BLK	LCS / LCSD	MS / MSD	<u>Dup</u>	RPD	Qualifiers
Temperature (Field)	NA	NA / NA	NA / NA	22.9 °C	0.438%	
	Proparad: 22	Field Analyses Bate	ch: B410546 (Water) Analyzed: 23-Oct-24 14:4			
Analyte	BLK	LCS / LCSD	MS / MSD	<u>Dup</u>	RPD	Qualifiers
Dissolved Oxygen (Field)	NA	NA / NA	NA / NA	5.87 mg/L	0.510%	duamere
		Field Analyses Bate	· ·			
	Prepared: 23	3-Oct-24 08:11 Bv: MH	Analyzed: 23-Oct-24 08:			
Analyte	Prepared: 23 <u>BLK</u>	3-Oct-24 08:11 By: MH LCS / LCSD	Analyzed: 23-Oct-24 08: <u>MS / MSD</u>	п Бу: МП <u>Dup</u>	<u>RPD</u>	Qualifiers

Josh Weaver Wynne Water Utilities 121 East Merriman Wynne, AR 72396 Project: Lagoon Discharge Sample Project Number: October 2024



Project Number: October 2024 Date Received: 23-Oct-24 15:55

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.

ma

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

						Project Description Turnaround Time				Preservation Codes:									
Wynne Water Ut	tilities						Lagoon Dischar	ge Sample	1 Day (100%)	1. Cool	, 6 Degr	ees Centi	grade			4. Thiosulfate for Dechlorination			
121 East Merrim	nan						Weekly Sa	ample	2 Day (50%)	2. Sulfi	ric Acid	(H_2SO_4)	, pH < 2			5. Hydrochloric Acid(HCl)			
Wynne, AR 7239	96						Reporting Inf	ormation	3 Day (25%)	3. Nitri	3. Nitric Acid (HNO ₃), pH < 2					6. Sodium Hydroxide (NaOH), pH > 12			
						Telephone: 870-238-2751			5 Day (Routine)	>		TES	ΤР	ARA	RAMETERS			Bottle Type Code	
Attn: Josh Weav	ver						Fax: 870-23	8-2044	Preservative Code:	1	1	1,2	1,4						G = Glass; P = Plastic
						Email: jweaver.wwu@gmail.com Bottle Ty				Р	Р	Р	Р			2			V = Septum; A = Amber
Sampler(s) Signature Sampler(s) Print Field SAMPLE COLLECTION					Jo Print	5لہ ed <i>m</i>	Weave			Field (pH, D.O., Temperature)	CBOD, TSS	nia	Fecal Coliform						Arkansas Analytical Work Order Number:
Field					Number of	Sample	SAMPLE			Field (pH, Temperat	BOD	Ammonia	ecal (710,0527
Number	Date/s	Time/s		Comp		Matrix		ICATION/ DESC		ΞĔ	Ū		<u> </u>			<u> </u>			2410538
	10/23	IOAn	X		3	Water	Lagoon Discha	rge Grab (Wynne	e)		Х	Х	Х	× .					01
	1023,24	1252	X		0	Water	Water Lagoon Discharge Field Analysis (AR Analytical)			Х									02
							ONSITE MEAS	UREMENTS by	Arkansas Analyt	ical D	DATE:	OB,	m						
								Sample	Duplicate	Q	С	QC Du	plicate						
							pH (S.U.)	GUE	951	70	1	202	-	Field (Calibra	tion Re	cord	DATE:	1023,24
							Time	1222	1257	80		811		рН /					Chlorine
							Temperature (°C)	2.0	23.3	18.8		18.9	8 9 4 1			Time QC		20	Time
							Time	200	1257	80		811		7	1			1	THIC .
		7					Dissolved Oxygen (mg/L)	14119	1552	00		01)	_	10	\checkmark	Cla		<u>,</u>	
							Time	1255	1257				10 805		5	Slope 2		2	and the second s
1. Relinguished by	: (Signature)	Date/Time		2. Rec	eived l	by: (Sig	gnature)	1004	ONDITION UPON F	RECEIPT		3		RE	MARK	S / SAI		COMM	ENTS
1/1		10/23				12		1. CUSTODY SEA	ALS:	Ye	2	No			1.				
1 des		6 7			1	5	05			1		ſ					· · ·		
VIII	1 0040				2. CONTAINERS		Ye	S	No	<u>.</u>									
					\downarrow	3. COC/LABELS A	AGREE:	Yes	3	No									
3. Relinquished by: (Signature) Date/Time 4. Received by lab: (Signature)				4. RECEIVED ON	ICE:	Yes	s	No											
Kee dow				TAN	5. TEMPERATURE ON RECEIPT: '			2.0	/	-									
1-	10,2320				0000	6. TEMPERATURE GUN ID:				HHT#	>								
Revision 3						FOR COMPLETION BY LAB ONLY													



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

05 November 2024

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

Project: Lagoon Discharge Sample Project Number: October 2024 SDG Number: 2410677

Enclosed are the results of analyses for samples received by the laboratory on 30-Oct-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,

Norma

Norma James Technical Director

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Josh Weaver Wynne Water Utilities 121 East Merriman Wynne, AR 72396 Project: Lagoon Discharge Sample Project Number: October 2024 Date Received: 30-Oct-24 14:40

ANALYTICAL RESULTS

Lab Number: Sample Name: Date/Time Collected: Sample Matrix:	Lagoo	2410677-01 n Discharge Grab (W 10/30/24 10:00 Water	/ynne)			
Wet Chemistry	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	Date/Time Analyzed	Batch	<u>Method</u>
Ammonia as N	mg/L	0.851		11/1/24 8:12	B411003	SM 4500-NH3 B,D,C-2021/EPA
Fecal Coliforms	MPN/100 mL	TNTC	FC, TNTC	10/30/24 14:30	B410657	IDEXX Colilert-18
TSS	mg/L	30.0		10/31/24 15:15	B410636	SM 2540 D-2015
CBOD	mg/L	30.2		10/31/24 6:35	B410638	SM 5210B-2016

ANALYTICAL RESULTS

Lab Number: Sample Name: Date/Time Collected: Sample Matrix:	Lagoon D	2410677-02 ischarge Field Analysis (AR 10/30/24 11:26 Water	Analytical)			
Field Analyses	<u>Units</u>	Result	<u>Qualifier(s)</u>	Date/Time Analyzed	<u>Batch</u>	<u>Method</u>
Dissolved Oxygen	mg/L	6.39		10/30/24 11:26	B411025	SM 4500-O G-2011
pН	S.U.	7.56		10/30/24 11:26	B411023	SM 4500-H+ B-2011
Temperature	°C	21.5		10/30/24 11:26	B411024	SM 2550B-2000

Josh Weaver Wynne Water Utilities 121 East Merriman Wynne, AR 72396 Project: Lagoon Discharge Sample Project Number: October 2024 Date Received: 30-Oct-24 14:40

QUALITY CONTROL RESULTS

	Propared: 31	Wet Chemistry Bate	ch: B410636 (Water) Analyzed: 31-Oct-24 15:	15 By: MH		
Analyto	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
<u>Analyte</u> TSS	<1.00 mg/L	92.0% / 90.0%	NA / NA	<u></u>	2.20%	<u>uuumer</u>
	Prepared: 31-	Wet Chemistry Bate Oct-24 06:35 Bv: CGF	:h: B410638 (Water) Analyzed: 31-Oct-24 06:	35 Bv: CGF		
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
CBOD	<2.00 mg/L	125% / 126%	NA / NA		0.939%	
	Prepared: 3	Wet Chemistry Bato 0-Oct-24 14:30 By: KJ	:h: B410657 (Water) Analyzed: 30-Oct-24 14:	30 By: KJ		
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Fecal Coliforms	<1 MPN/100 mL	NA / NA	NA / NA	82 MPN/100 mL	0.00%	
		Wet Chemiets, Dete	b. D.444002 (Motor)			
	Prepared: 01	Wet Chemistry Bate -Nov-24 08:12 By: KJ	cn: B411003 (Water) Analyzed: 01-Nov-24 08	:12 By: KJ		
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Ammonia as N	<0.500 mg/L	95.1% / NA	98.1% / 99.0%		0.933%	
	Dronovodi 20	Field Analyses Bate				
Analyte	BLK	LCS / LCSD	Analyzed: 30-Oct-24 08: MS / MSD	<u>20 Бу. імп</u> <u>Dup</u>	RPD	Qualifiers
pH (Field)	NA	100% / 100%	NA / NA	<u></u>	0.00%	Quaimera
	Prepared: 30	Field Analyses Bate Oct-24 13:20 By: MH	ch: B411024 (Water) Analyzed: 30-Oct-24 13:	20 By: MH		
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Temperature (Field)	NA	NA / NA	NA / NA	26.5 °C	0.378%	
	Prepared: 30	Field Analyses Bato -Oct-24 13:20 By: MH	:h: B411025 (Water) Analyzed: 30-Oct-24 13:	20 By: MH		
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Dissolved Oxygen (Field)	NA	NA / NA	NA / NA	6.50 mg/L	0.766%	

Josh Weaver Wynne Water Utilities 121 East Merriman Wynne, AR 72396 Project: Lagoon Discharge Sample Project Number: October 2024



Project Number: October 2024 Date Received: 30-Oct-24 14:40

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.

ma

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			Turnaround Time		Preservation Codes:									
Wynne Water Utilities				Lagoon Discharge Sample			1 Day (100%)	1. Cool	, 6 Degre	ees Centi	tigrade 4. Thiosulfate for Dechlorination								
121 East Merriman					Weekly Sample			2 Day (50%)	2. Sulfu	ric Acid	(H ₂ SO ₄)	,), pH < 2 5. Hydrochloric Acid(HCl)				ICI)			
Wynne, AR 72396					Reporting Information			3 Day (25%)	3. Nitri	c Acid (I	HNO3), p	pH < 2 6. Sodium Hydroxide (NaOH), pH >						aOH), pH > 12	
					Telephone: 870-238-2751			5 Day (Routine)	>		T E S	T PARAMETERS					Bottle Type Code		
Attn: Josh Weav	/er					Fax: 870-238-2044			Preservative Code:	1	1	1,2	1,4						G = Glass; P = Plastic
				Email: jweaver.wwu@gmail.com			Bottle Type:	Р	Р	Р	Р						V = Septum; A = Amber		
			edmathi HADDADi			Field (pH, D.O., Temperature) CBOD, TSS		Ammonia	Fecal Coliform						Arkansas Analytical Work Order Number:				
Field		OLLECTION			Number of	Sample		SAMPLE		ald (1 30D			ecal					5	410677
Number	Date/s	Time/s	Grab	Comp		Matrix	IDENTIF	ICATION/ DESC	CRIPTION	μËΨ	5	A	ЩЧ					-	(104.1
	10/30	10 Am	X		3	Water	Lagoon Dischar	ge Grab (Wynn	e)		Х	Х	Х		<u>.</u>			- 6	01
	103024	1126	X		0	Water Lagoon Discharge Field Analysis (AR Analytical)				X	*								02
							ONSITE MEAS	UREMENTS by	Arkansas Analyt	tical I	DATE:	OBA	24						
								Sample	Duplicate		С	QC Du							
							pH (S.U.)		712		703 703								10,3024
							Time	156	1130	826 828									Chlorine
											21.3 21.3				1				
							Temperature (°C)	40	1120					4	-			QU	Time
							Time Dissolved Oxygen	1126	1130	82	826 828								
							(mg/L) Time	657	1130					10			Slope 2		
1. Relinguisbed by	: (Signature)	Date/Time		2. Re	ceived	by: (Signature) SAMPLE CONDITION UPON			RECEIP	T IN LAE	3	REMARKS / SAMPLE COMMENTS							
		10/30				111	R	1. CUSTODY SEALS:		Yes No									
Aut 4750			10:	111	8	2. CONTAINERS CORRECT:		1											
		1	10						YesNo								5-		
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3. Relinquished by: (Signature) Date/Time 4. Rece			eived by lab: (Signature) 4. RECE						No										
11111		0	Natasha 5. TEMPE			PERATURE ON RECEIPT: 3 °C													
1990			POETO	6. TEMPERATURE GUN ID:			ID: HHT# 5												
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