

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

27 March 2024

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

Project: Lagoon Discharge Sample

Project Number: March 2024

SDG Number: 2403469

Enclosed are the results of analyses for samples received by the laboratory on 20-Mar-24 15:00. If you have any questions concerning this report, please feel free to contact me.

Sample Receipt Information:

Custody Seals	~
Containers Correct	
COC/Labels Agree	<i>~</i>
Received On Ice	~
Temperature on Receipt	3.0°C

Sincerely,

Norma James

Technical Director

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Sample Delivery Group - 2403469

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 failied 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).



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ANALYTICAL RESULTS

Lab Number: 2403469-01

Sample Name: Lagoon Discharge Grab (Wynne)

Date/Time Collected: 3/20/24 10:00

Sample Matrix: Water

Wet Chemistry	<u>Units</u>	Result	Qualifier(s)	Date/Time Analyzed	<u>Batch</u>	<u>Method</u>
Ammonia as N	mg/L	9.99		3/22/24 8:15	B403501	SM 4500-NH3 B,D,C-2011
Fecal Coliforms	MPN/100 mL	1400		3/20/24 15:15	B403485	IDEXX Colilert-18
TSS	mg/L	25.0		3/22/24 9:40	B403479	SM 2540 D-2015
CBOD	mg/L	4.16	B-02	3/21/24 8:38	B403466	SM 5210B-2016

ANALYTICAL RESULTS

Lab Number: 2403469-02

Sample Name: Lagoon Discharge Field Analysis (AR Analytical)

Date/Time Collected: 3/20/24 11:45
Sample Matrix: Water

Field Analyses **Units** Result Qualifier(s) Date/Time Analyzed **Batch** Method SM 4500-O G-2011 Dissolved Oxygen mg/L 3/20/24 11:45 B403495 7.46 SM 4500-H+ B-2011 S.U. 3/20/24 11:45 B403493 рΗ 7.61 Temperature °C 3/20/24 11:45 B403494 SM 2550B-2000 16.5

Arkansas Analytical

Arkansas Analytical Inc.

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QUALITY CONTROL RESULTS

	Prenared: 21	Wet Chemistry Bato	:h: B403466 (Water) Analyzed: 21-Mar-24 08:	38 Bv: KD		
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
CBOD	<2.00 mg/L	109% / 113%	NA / NA	<u> </u>	3.18%	
		Wet Chemistry Bato	sh : P402479 (Water)			
	Prepared: 21	_	Analyzed: 21-Mar-24 09:	40 By: MH		
<u>Analyte</u>	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
TSS	<1.00 mg/L	95.0% / 92.0%	NA / NA		3.21%	
		Wet Chemistry Bato				
	Prepared: 20	-Mar-24 15:15 By: KJ	Analyzed: 20-Mar-24 15:	15 By: KJ		
<u>Analyte</u>	<u>BLK</u>	LCS / LCSD	MS / MSD	<u>Dup</u>	<u>RPD</u>	Qualifiers
Fecal Coliforms	<1 MPN/100 mL	NA / NA	NA / NA	ND MPN/100 mL	NA	
		Field Analyses Bato	:h: B403493 (Water)			
	Prepared: 20	•	Analyzed: 20-Mar-24 09:	23 By: MH		
Analyte	<u>BLK</u>	LCS / LCSD	MS / MSD	<u>Dup</u>	RPD	Qualifiers
pH (Field)	NA	101% / 101%	NA / NA		0.00%	
	Prepared: 20	Field Analyses Bato	:h: B403494 (Water) Analyzed: 20-Mar-24 13:	50 By: MH		
<u>Analyte</u>	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Temperature (Field)	NA	NA / NA	NA / NA	17.0 °C	0.00%	
		Field Analyses Bato	:h: B403495 (Water)			
	Prepared: 20	-	Analyzed: 20-Mar-24 13:	50 By: MH		
<u>Analyte</u>	BLK	LCS / LCSD	MS / MSD	<u>Dup</u>	<u>RPD</u>	Qualifiers
Dissolved Oxygen (Field)	NA	NA / NA	NA / NA	7.65 mg/L	0.787%	
	Dranavad: 00	Wet Chemistry Bato	• •	45 By: K !		
Amalista			Analyzed: 22-Mar-24 08:		DDD	Ouglifia
Analyte Ammonia as N	<u>BLK</u> <0.500 mg/L	<u>LCS / LCSD</u> 95.5% / NA	<u>MS / MSD</u> 104% / 100%	<u>Dup</u>	<u>RPD</u> 3.67%	Qualifiers
AIIIIIUIIIa as N	~0.500 Hg/L	33.370 / INA	10470 / 100%		3.07 70	

QUALIFIER(S)

^{*}B-02: Method requirements for residual oxygen failed. Result may be higher than reported. Data is qualified as estimated.

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All Analysis performed according to EPA approved methodology when available:

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

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

Reviewed by:

Norma James Technical Director Arkansas Analytical



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

CHAIN OF CUSTODY RECORD

i i	14014				F		Droinet Description	neintion	Time Time				Proc	Preservation Codes:	odes:		
CLIEN I INFORM	ALION				Ť		r roject pes	n buon						-			
Wynne Water Utilities	ilities					ات	Lagoon Discharge Sample	ge Sample	1 Day (100%)	1. Cool,	6 Degrees	1. Cool, 6 Degrees Centigrade		4.	4. Thiosulfate for Dechlorination	or Dechlorin	ation
121 East Merriman	an						Weekly Sample	ample	2 Day (50%)	2. Sulfu	ic Acid (Sulfuric Acid (H2SO4), pH < 2	2 >	5.	5. Hydrochloric Acid(HCl)	: Acid(HCl)	
Wynne, AR 72396	91						Reporting Information	ormation	3 Day (25%)	3. Nitric	Acid (H)	Nitric Acid (HNO ₃), pH < 2		6.	6. Sodium Hydroxide (NaOH), pH > 12	oxide (NaOF	I), pH > 12
							Telephone: 870-238-2751	-238-2751	5 Day (Routine)			TEST	PARA	MET	ERS		Bottle Type Code
Attn: Josh Weaver	rer						Fax: 870-238-2044	8-2044	Preservative Code:	-	-	1,2 1,4	4			5	G = Glass; P = Plastic
						Email:	ail: jweaver.ww	jweaver.wwu@gmail.com	Bottle Type:	Ъ	۵	д				· A	V = Septum; A = Amber
Jak.	W-		Camp	(a)	Josin War	ے د ب	Josh Wrove				SS		ıform			A O	Arkansas Analytical Work Order Number:
Field	SAMPLE CO	SAMPLE COLLECTION			Number	Sample	38	SAMPLE SAMPLE IDENTIFICATION DESCRIPTION	NOILdia	ield (pH, emperat	SBOD, T	sinomm/	ecal Col			2	2403469
Number	3/20	(OAN	Crap ×	Comp	3	Vater	agoon Discha	Water Lagoon Discharge Grab (Wynne)			×						01
	3,2924	1145	×			Vater	agoon Discha	Water Lagoon Discharge Field Analysis (AR Analytical)	s (AR Analytical)	×							02
							ONSITE MEAS	ONSITE MEASUREMENTS by Arkansas Analytical	Arkansas Analyt	ical [DATE:3	2029					
								Sample	Duplicate	ac	.0	QC Duplicate	ate				
							pH (S.U.)	1,	767	206	9	206	Field	Calibratio	Field Calibration Record DATE: 3,20,20	DATE: 3	120,24
							Time	114	1150	8	0	923	/ Hd	/ Time	D.O.	· υ	Chlorine
							Temperature (°C)	1600	16:5	19.1		12.6	4		Time	OC T	Тіте
				9			Time	1145	1150	926	2	333	7			-	
							Dissolved Oxygen (mg/L)	746	X				10		Sløpe	2	
							Time	1/4	1100				S	2			
1. Relinquished by: (Signature)	r: (Signature)	Date/Time		2. Rec	2. Received by: (Signature)	/: (Sig	nature)	SAMPLE C	SAMPLE CONDITION UPON RECEIPT IN LAB	RECEIP.	IN LAB		R	MARKS	REMARKS / SAMPLE COMMENTS	COMME	VTS
1		3/20			3)	-		1. CUSTODY SEALS:	ALS:	Yes		ON.					
met /					a	31900	m.	2. CONTAINERS CORRECT:	CORRECT:	Yes		oN.					
1	\			7	50	4	7	3. COC/LABELS AGREE:	AGREE:	Yes	s No						
, 3. Relinguished by: (Signature)	v: (Signature)	Date/Time		4. Rec	eived b	y lab:	4. Received by lab: (Signature)	4. RECEIVED ON ICE:	I ICE:	Yes		S.					
					Al a P	9		5. TEMPERATUR	TEMPERATURE ON RECEIPT:	\$ \$	15						
	(150			eve 3	dama	3 -	6. TEMPERATURE GUN ID:	RE GUN ID:	#THT#							
Revision 3-1/4/16	7	2,00,20	2		6	Formara	net i	FOR	FOR COMPLETION BY LAB ONLY	LAB ON	<u></u>						