

08 November 2023

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

Project: Lagoon Discharge Sample Project Number: November 2023

SDG Number: 2311010

Enclosed are the results of analyses for samples received by the laboratory on 01-Nov-23 15:10. If you have any questions concerning this report, please feel free to contact me.

Sample Receipt Information:

Custody Seals	•
Containers Correct	~
COC/Labels Agree	<u> </u>
Received On Ice	~
Temperature on Receipt	2.0°C

Sincerely,

Norma James

Technical Director

Project: Lagoon Discharge Sample Project Number: November 2023 Date Received: 01-Nov-23 15:10



B311006

SM 5210B-2016

ANALYTICAL RESULTS

Lab Number: 2311010-01

Sample Name: Lagoon Discharge Grab (Wynne)

Date/Time Collected: 11/1/23 10:00 Sample Matrix: Water

Wet Chemistry Units Qualifier(s) Date/Time Analyzed Result Batch Method SM 4500-NH3 B,D,C-2011 Ammonia as N mg/L 11/3/23 8:10 B311053 8.75 MPN/100 mL IDEXX Colilert-18 **Fecal Coliforms** 11/1/23 15:20 B311042 1600 **TSS** mg/L 11/2/23 14:55 B311027 SM 2540 D-2015 37.8

11/2/23 8:28

ANALYTICAL RESULTS

Lab Number: 2311010-02

mg/L

Sample Name: Lagoon Discharge Field Analysis (AR Analytical)

20.5

Date/Time Collected: 11/1/23 11:35
Sample Matrix: Water

CBOD

Result Qualifier(s) Date/Time Analyzed Field Analyses **Units Batch** Method SM 4500-O G-2011 Dissolved Oxygen mg/L 11/1/23 11:40 B311128 15.2 SM 4500-H+ B-2011 S.U. 11/1/23 11:35 B311126 рΗ 7.95 Temperature °C 11/1/23 11:35 B311127 SM 2550B-2000 13.2

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

Project: Lagoon Discharge Sample Project Number: November 2023 Date Received: 01-Nov-23 15:10

QUALITY CONTROL RESULTS

		Wet Chemistry Bate	ch: B311006 (Water)			
	Prepared: 0	I-Nov-23 08:28 By: kd	Analyzed: 01-Nov-23 08:	28 By: kd		
<u>Analyte</u>	<u>BLK</u>	LCS / LCSD	MS / MSD	<u>Dup</u>	<u>RPD</u>	Qualifiers
CBOD	<2.00 mg/L	107% / 110%	NA / NA		2.71%	
	Dronovodi 02	Wet Chemistry Bate	:h: B311027 (Water) Analyzed: 02-Nov-23 14:	EE Dyr MU		
Analyto	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Analyte TSS	<1.00 mg/L	92.0% / 87.0%	NA / NA	<u>=</u>	5.59%	gaamers
	Prepared: 0	Wet Chemistry Bate	:h: B311042 (Water) Analyzed: 01-Nov-23 15:	20 By: KJ		
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Fecal Coliforms	<1 MPN/100 mL	NA / NA	NA / NA	4 MPN/100 mL	68.9%	
Analyte Ammonia as N	Prepared: 03 <u>BLK</u> <0.500 mg/L	Wet Chemistry Bate 3-Nov-23 08:10 By: KJ LCS / LCSD 84.7% / NA	ch: B311053 (Water) Analyzed: 03-Nov-23 08: MS / MSD 80.5% / 75.6%	10 By: KJ <u>Dup</u>	<u>RPD</u> 5.34%	Qualifiers
	Prepared: 01	Field Analyses Bate		02 By: MH		
Analyto	-	-Nov-23 09:02 By: MH	Analyzed: 01-Nov-23 09:		RPD	Qualifiers
Analyte pH (Field)	Prepared: 01 <u>BLK</u> NA	-		02 By: MH <u>Dup</u>	RPD 0.00%	Qualifiers
	BLK NA	-Nov-23 09:02 By: MH	Ms / MsD NA / NA h: B311127 (Water)	<u>Dup</u>		Qualifiers
pH (Field)	BLK NA Prepared: 01	-Nov-23 09:02 By: MH LCS / LCSD 100% / 100% Field Analyses Bate -Nov-23 10:28 By: MH	MS / MSD NA / NA Ch: B311127 (Water) Analyzed: 01-Nov-23 10:	<u>Dup</u> 28 By: MH	0.00%	
	BLK NA	-Nov-23 09:02 By: MH	Ms / MsD NA / NA h: B311127 (Water)	<u>Dup</u>		Qualifiers Qualifiers
pH (Field) Analyte	BLK NA Prepared: 01 BLK NA	-Nov-23 09:02 By: MH LCS / LCSD 100% / 100% Field Analyses Bate -Nov-23 10:28 By: MH LCS / LCSD NA / NA Field Analyses Bate	MS / MSD NA / NA Ch: B311128 (Water)	<u>Dup</u> 28 By: MH <u>Dup</u> 14.7 °C	0.00% RPD	
pH (Field) Analyte	BLK NA Prepared: 01 BLK NA	-Nov-23 09:02 By: MH LCS / LCSD 100% / 100% Field Analyses Bate -Nov-23 10:28 By: MH LCS / LCSD NA / NA Field Analyses Bate	MS / MSD NA / NA Ch: B311127 (Water) Analyzed: 01-Nov-23 10: MS / MSD NA / NA	<u>Dup</u> 28 By: MH <u>Dup</u> 14.7 °C	0.00% RPD	

Project: Lagoon Discharge Sample Project Number: November 2023 Date Received: 01-Nov-23 15:10



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



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

				AB ONLY	FOR COMPLETION BY LAS		(Calili		1
				HHT# 5		6. TEMPERATURE GUN ID:		11.102		1
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		T	N _O	Yes _	1.0	4. RECEIVED ON ICE:	4. Received by lab: (Signature)	Date/Time	y: (Signature)	3. Relinguished by: (Signature)
			No	Yes _	\GREE:	3. COC/LABELS AGREE:	1			('
		Τ	No	Yes _	CORRECT:	2. CONTAINERS CORRECT:	ナルル			Miller
			N N	Yes _	YLS:	3 1. CUSTODY SEALS:	11/123	1/1		Dut
REMARKS / SAMPLE COMMENTS	REMAR		LAB	RECEIPT IN LAB	SAMPLE CONDITION UPON REC	nature)	2. Received by: (Signature)	Date/Time	y: (Signature)	1. Relinquished by: (Signature)
	855				1040	Time // 140				
Slope 2	10				1500	Dissolved Oxygen (mg/L) 15 32				
	7				1110					
Time QC Time	4	١			(3,0)	Temperature (°C) [3, 2		3		
e D.O. Chlorine	pH /Time	>	90	900	1136	Time (135		8		
Field Calibration Record DATE: ルルス	Field Calib	02	20	202	797 5	pH (S.U.) 795				
	ē	QC Duplicate	QCL	ရင	Duplicate	Sample				
		122	1/1	ical DATE:		ONSITE MEASUREMENTS by Arkansas Analy				
CF									(11/11)	
02				×	s (AR Analytical)	Water Lagoon Discharge Field Analysis (AR Analytical	X 0 Wa	1135	11,1/23	
01		×	×	×	(۶	Water Lagoon Discharge Grab (Wynne)	X 3 Wa	ioan	11/1	
28/010	rec			Ten		IDENTIFICATION/ DESCRIPTION	Grab Comp Bottles Matrix	Time/s	Date/s	Number
	iai Co		OD, T	npera	d (n	SAMPLE	Number	SAMPLE COLLECTION	SAMPLE C	Field
Arkansas Analytical Work Order Number:	Dillorm	oliform		ature)	Н, D.O.,	Dosh Weaver	ပါလယ် (Sampler(s) Printed:	σ	nature	Sampler(s) Signature
										2
V = Septum; A = Amber		P	P	P P	Bottle Type:	Email: jweaver.wwu@gmail.com				
G = Glass; P = Plastic		1,4	1 1,2	1	Preservative Code:	Fax: 870-238-2044			aver	Attn: Josh Weaver
ETERS Bottle Type Code	PARAME	ST	TES		5 Day (Routine)	Telephone: 870-238-2751				
6. Sodium Hydroxide (NaOH), pH > 12), pH < 2	Nitric Acid (HNO ₃), pH < 2	Nitric Ac	ü	Reporting Information			396	Wynne, AR 72396
5. Hydrochloric Acid(HCl)	<2	0,), pH ·	Sulfuric Acid (H2SO4), pH < 2	Sulfuric ,	2 Day (50%) 2.	Weekly Sample			man	121 East Merriman
4. Thiosulfate for Dechlorination		ntigrade	Cool, 6 Degrees Centigrade		1 Day (100%) 1.	Lagoon Discharge Sample			Utilities	Wynne Water Utilities
Preservation Codes:	Preserva				Turnaround Time	Project Description			RMATION	CLIENT INFORMATION



22 November 2023

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

Project: Lagoon Discharge Sample Project Number: November 2023

SDG Number: 2311352

Enclosed are the results of analyses for samples received by the laboratory on 15-Nov-23 15:30. If you have any questions concerning this report, please feel free to contact me.

Sample Receipt Information:

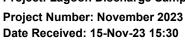
Custody Seals	•
Containers Correct	~
COC/Labels Agree	<u> </u>
Received On Ice	~
Temperature on Receipt	3.0°C

Sincerely,

Norma James

Technical Director

Project: Lagoon Discharge Sample Project Number: November 2023



ANALYTICAL RESULTS

2311352-01 Lab Number:

Sample Name: Lagoon Discharge Grab (Wynne)

Date/Time Collected: 11/15/23 10:00 Water Sample Matrix:

Wet Chemistry Units Qualifier(s) Date/Time Analyzed Result Batch Method SM 4500-NH3 B,D,C-2011 11/17/23 8:20 Ammonia as N mg/L B311418 2.75 MPN/100 mL IDEXX Colilert-18 **Fecal Coliforms** B311400 11/15/23 15:30 610 **TSS** mg/L 11/17/23 9:00 B311405 SM 2540 D-2015 44.0 **CBOD** 11/16/23 7:42 SM 5210B-2016 mg/L B311375 43.6

ANALYTICAL RESULTS

Lab Number: 2311352-02

Lagoon Discharge Field Analysis (AR Analytical) Sample Name:

Date/Time Collected: 11/15/23 12:00 Sample Matrix: Water

Result Qualifier(s) Date/Time Analyzed Field Analyses **Units** Batch Method SM 4500-O G-2011 Dissolved Oxygen mg/L 11/15/23 12:05 B311460 15.0 SM 4500-H+ B-2011 S.U. 11/15/23 12:00 B311458 рΗ 7.58 Temperature °C 11/15/23 12:00 B311459 SM 2550B-2000 16.4

Arkansas Analytical

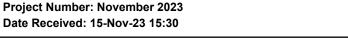
Josh Weaver Wynne Water Utilities 121 East Merriman Wynne, AR 72396

Project: Lagoon Discharge Sample Project Number: November 2023 Date Received: 15-Nov-23 15:30

QUALITY CONTROL RESULTS

		Wet Chemistry Bate	, ,			
	Prepared: 10	6-Nov-23 07:42 By: kd	Analyzed: 16-Nov-23 07	:42 By: kd		
<u>Analyte</u>	<u>BLK</u>	LCS / LCSD	MS / MSD	<u>Dup</u>	RPD	Qualifiers
CBOD	<2.00 mg/L	95.3% / 113%	NA / NA		16.7%	
	Drawarad: 44	Wet Chemistry Bate	ch: B311400 (Water) Analyzed: 15-Nov-23 15	·20 P.·. V I		
Analyta	BLK		MS / MSD	Dup	RPD	Qualifiers
Analyte Fecal Coliforms	<1 MPN/100 mL	<u>LCS / LCSD</u> NA / NA	NA / NA	ND MPN/100 mL	NA	<u>Quamers</u>
	Propared: 17	Wet Chemistry Bate	ch: B311405 (Water) Analyzed: 17-Nov-23 09	.00 By: MU		
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
TSS	<1.00 mg/L	89.0% / 87.0%	NA / NA	<u> </u>	2.27%	<u>Quamers</u>
	Prepared: 17	Wet Chemistry Bate 7-Nov-23 08:20 By: KJ	ch: B311418 (Water) Analyzed: 17-Nov-23 08	:20 By: KJ		
<u>Analyte</u>	<u>BLK</u>	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Ammonia as N	<0.500 mg/L	84.5% / NA	82.6% / 80.8%		2.21%	
	Propared: 15	Field Analyses Bate	ch: B311458 (Water) Analyzed: 15-Nov-23 09	·02 By: MH		
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
pH (Field)	NA NA	101% / 101%	NA / NA	<u> </u>	0.00%	<u>Quamers</u>
		Field Analyses Bate				
		_	Analyzed: 15-Nov-23 13			0
Analyte	BLK NA	LCS / LCSD	MS / MSD	<u>Dup</u>	<u>RPD</u>	Qualifiers
Temperature (Field)	NA	NA / NA	NA / NA	17.4 °C	0.00%	
	Prepared: 15	Field Analyses Bate -Nov-23 13:57 By: MH	ch: B311460 (Water) Analyzed: 15-Nov-23 13	:57 By: MH		
<u>Analyte</u>	<u>BLK</u>	LCS / LCSD	MS / MSD	<u>Dup</u>	RPD	Qualifiers

Project: Lagoon Discharge Sample Project Number: November 2023



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



CLIENT INFORMATION	MATION						Project Description	ription	Turnaround Time				Draca	Procomotion Codes	Codos		
Wynne Water Utilities	tilities				Ï	Lag	Lagoon Discharge Sample	se Sample	1 Day (100%)	<u> </u>	6 Degree	Cool 6 Degrees Centionade			Thiomless for Double :	for Dookley	
121 East Merriman	ıan					2	Weekly Sample	mple	2 Day (50%)	2. Sulfu	ric Acid (Sulfuric Acid (H,SO _i), pH < 2		i vi	4. Imosunate tor Decilioni 5. Hydrochloric Acid(HCD	ior Decimori	папоп
Wynne, AR 72396	96	1				Re	Reporting Information	rmation	3 Day (25%)		Nitric Acid (HNO ₃), pH	(O ₃), pH < 2		9	6. Sodium Hydroxide (NaOH), pH > 12	Iroxide (NaO	H), pH > 12
						Te	Telephone: 870-238-2751	238-2751	5 Day (Routine)			TEST	PARAM	ΕŢ	ERS		Bottle Type Code
Attn: Josh Weaver	/er						Fax: 870-238-2044	-2044	Preservative Code:	-	_	1,2 1,	4.				G = Glass; P = Plastic
					T	Email:	jweaver.wwu@gmail.com	@gmail.com	Bottle Type:	Ъ	Ь	Р				>	V = Septum; A = Amber
Sampler(s) Signature	of free		S and a	Jor(e)	Sos	Josh W	reover			D.O.,	S		шо				Arkansas Analytical Work
Sin (s) inidimp			Sallip	(S) L		Sampler(s) Frince	DI FARED	100		H, ratu	ST		11101		-	0	Order Number:
Field Number	SAMPLE C Date/s	SAMPLE COLLECTION Date/s Time/s	Grab	Comp	Number of Sa Bottles N	Sample Matrix	IDENTIFI	SAMPLE IDENTIFICATION DESCRIPTION	RIPTION	q) bləi [¬] əqməT	CBOD'	nommA	O lsoe-			0	1311352
- 5	11/15	10 Am	×		8		oon Dischar	Lagoon Discharge Grab (Wynne)	(6		×			1			01
	11,1523	(200	×		0	Water Lag	oon Dischar	ge Field Analysi	oon Discharge Field Analysis (AR Analytical)	×							02
		1						-									
						ONS	SITE MEASU	JREMENTS by	ONSITE MEASUREMENTS by Arkansas Analytical DATE;	ll tical D	ATE:	15,02					
								Sample	Duplicate	ac		QC Duplicate	e.				
							pH (S.U.)	7.58	260	700	\	20	Field Ca	alibration	Field Calibration Record	- DATE: [1872
	7				+		Time	1200	1203	900		900	T/ Hd	/ Time	D.O.	O	Chlorine
						Tem	perature (°C)	16.4	16.4				4		Time	ac Ti	Time
					1	ig	Time	1900	(203				7			y -	
				\dagger		1	(mg/L)	7	15.01		+		9		Slope	2	
				1	╣		Time	1205	1207				2	•			
1. Relinquished by: (Signature)	(Signature)	Date/Time		2. Recei	ved by:	Received by: (Signature)	ej	SAMPLEC	SAMPLE CONDITION UPON RECEIPT IN LAB	RECEIPT	IN LAB		REN	ARKS /	REMARKS / SAMPLE COMMENTS	COMMEN	ITS
Joseph		11/15			10	1		1. CUSTODY SEALS:	'LS:	Yes	8						
1	\			_	125/4	23		 CONTAINERS CORRECT. COC/LABELS AGREE: 	SORRECT: GREE:	Yes	8 8 						
3. Relinquished by: (Signature)	(Signature)	Date/Time		f. Recei	ved by	4. Received by lab: (Signature)		4. RECEIVED ON ICE:	ICE:		8				8		
		120			7	Natasha		5. TEMPERATURE ON RECEIPT.	ON RECEIPT:	° 5	10						
_		1.502			7	Housond		6. TEMPERATURE GUN ID:	E GUN ID:	HHT#		+					
		alata						FOR C	FOR COMPLETION BY LAB ONLY	AB ONL	>	4					



28 November 2023

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

Project: Lagoon Discharge Sample Project Number: November 2023

SDG Number: 2311488

Enclosed are the results of analyses for samples received by the laboratory on 21-Nov-23 14:53. If you have any questions concerning this report, please feel free to contact me.

Sample Receipt Information:

Custody Seals	•
Containers Correct	<u> </u>
COC/Labels Agree	~
Received On Ice	~
Temperature on Receipt	1.0°C

Sincerely,

Norma James

Technical Director

Project: Lagoon Discharge Sample Project Number: November 2023 Date Received: 21-Nov-23 14:53



ANALYTICAL RESULTS

Lab Number: 2311488-01

Sample Name: Lagoon Discharge Grab (Wynne)

Date/Time Collected: 11/21/23 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	7.31		11/27/23 8:45	B311587	SM 4500-NH3 B,D,C-2011
Fecal Coliforms	MPN/100 mL	440		11/21/23 15:05	B311562	IDEXX Colilert-18
TSS	mg/L	25.5		11/22/23 14:05	B311527	SM 2540 D-2015
CBOD	mg/L	20.0		11/22/23 7:30	B311540	SM 5210B-2016

ANALYTICAL RESULTS

Lab Number: 2311488-02

Sample Name: Lagoon Discharge Field Analysis (AR Analytical)

Date/Time Collected: 11/21/23 11:30 Sample Matrix: Water

Field Analyses	<u>Units</u>	<u>Result</u>	Qualifier(s)	Date/Time Analyzed	<u>Batch</u>	<u>Method</u>
Dissolved Oxygen	mg/L	11.0		11/21/23 11:35	B311578	SM 4500-O G-2011
рН	S.U.	8.06		11/21/23 11:30	B311576	SM 4500-H+ B-2011
Temperature	°C	16.8		11/21/23 11:30	B311577	SM 2550B-2000

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

Project: Lagoon Discharge Sample Project Number: November 2023 Date Received: 21-Nov-23 14:53

QUALITY CONTROL RESULTS

	Prenared: 22	Wet Chemistry Bato -Nov-23 14:05 By: MH		·05 Bv· MH		
<u>Analyte</u>	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
TSS	<1.00 mg/L	90.0% / 102%	NA / NA	<u>—</u>	12.5%	D
		Wet Chemistry Bato				
	<u> </u>	2-Nov-23 08:17 By: kd	Analyzed: 22-Nov-23 08			
<u>Analyte</u>	<u>BLK</u>	LCS / LCSD	MS / MSD	<u>Dup</u>	<u>RPD</u>	<u>Qualifiers</u>
CBOD	<2.00 mg/L	114% / 111%	NA / NA		3.40%	
	Prepared: 21	Wet Chemistry Bato -Nov-23 15:05 By: KJ	· · · · · · · · · · · · · · · · · · ·	:05 Bv: KJ		
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Fecal Coliforms	<1 MPN/100 mL	NA / NA	NA / NA	500 MPN/100	12.9%	
				mL		
	Propared: 21	Field Analyses Bato -Nov-23 09:07 By: MH		·07 Rv: MH		
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
pH (Field)	NA	101% / 101%	NA / NA		0.283%	<u></u>
		Field Analyses Bato	:h: B311577 (Water)			
	Prepared: 21	-Nov-23 13:33 By: MH	Analyzed: 21-Nov-23 13	:33 By: MH		
<u>Analyte</u>	BLK	LCS / LCSD	MS / MSD	<u>Dup</u>	<u>RPD</u>	Qualifiers
Temperature (Field)	NA	NA / NA	NA / NA	16.8 °C	0.00%	
		Field Analyses Bato	· · ·			
	Prepared: 21	-Nov-23 13:37 By: MH	Analyzed: 21-Nov-23 13	:37 By: MH		
<u>Analyte</u>	<u>BLK</u>	LCS / LCSD	MS / MSD	<u>Dup</u>	RPD	Qualifiers
Dissolved Oxygen (Field)	NA	NA / NA	NA / NA	7.18 mg/L	0.278%	
	Duemous de C	Wet Chemistry Bato		.45 D V.		
Auglida	-	'-Nov-23 08:45 By: KJ		-	BBD	Ouglifiers
Analyte	BLK	LCS / LCSD	MS / MSD	<u>Dup</u>	<u>RPD</u>	Qualifiers
Ammonia as N	<0.500 mg/L	84.5% / NA	87.6% / 84.8%		3.10%	

QUALIFIER(S)

^{*}D: RPD Value Does Not Meet Laboratory Acceptance Criteria

Project: Lagoon Discharge Sample Project Number: November 2023 Date Received: 21-Nov-23 14:53



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



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

CLIENT INFORMATION			Droipot Description	7							
When Wet Hilling			Fiolect Description	Turnaround Time	T				Preservation Codes:	Codes:	
wynne water Utilities			Lagoon Discharge Sample	1 Day (100%)	1. Cool	Cool, 6 Degrees Centigrade	es Centi	grade		4. Thiosulfate fo	4. Thiosulfate for Dechlorination
121 East Merriman			Weekly Sample	2 Day (50%)	2. Sulfu	Sulfuric Acid (H2SO4), pH < 2	(H,SO ₄)	pH < 2		5. Hydrochloric Acid(HCI)	Acid(HCl)
Wynne, AR 72396			Reporting Information	3 Day (25%)	3. Nitri	Nitric Acid (HNO ₃), pH < 2	INO ₃), p	H < 2		5. Sodium Hydro	6. Sodium Hydroxide (NaOH), pH > 12
			Telephone: 870-238-2751	5 Day (Routine)	~		TEST	7	ARAMETI	ERS	Bottle Type Code
Attn: Josh Weaver			Fax: 870-238-2044	Preservative Code:	_	_	1,2	1 _{,4}			G = Glass; P = Plastic
			Email: jweaver.wwu@gmail.com	Bottle Type:	P	ס	₽	Р			V = Septum; A = Amber
2											
Sampler(s) Signature	Sa	Sampler(s) Printed:	both Weever		D.O., ure)	3S		form			Arkansas Analytical Work
Eigld CAMDIE			HADDA		pH, erati), TS	nia	Coli			Order Number:
Number Date/s	Date/s Time/s Grab	Number of Comp Bottles	Sample Sample IDENTIFICATION/ DESCRIPTION	CRIPTION	Field (p Tempe	CBOD	Ammo	Fecal (2311488
12/11	10Am X	ω	Lagoo	е)		×	×	×			01
11,24,02	//3D ×	0	Water Lagoon Discharge Field Analysis (AR Analytical	s (AR Analytical)	×						02
			ONGITE MEAGLIDEMENTS by Archagon Apply		DATE:		10:00	2			
			Sample		ရင		QC Duplicate	licate			
			pH (S.U.) 8,06	000	100	•	200	-	Field Calibration Record	n Record [DATE: NULLA
			Time (12)	(133)	900		808	ì	pH /Time	D.O.	
			Temperature (°C) /6.8	16.8					4 1	Time	QC Time
			Time 1/36	133				-1	7		
			Dissolved Oxygen (mg/L) /0.9(8301					10 🗸	Slope 2	
			Time 1/35	1131					900		4 7
1. Relinguished by: (Signature)	Date/Time	2. Received b	Received by: (Signature) SAMPLE CO	SAMPLE CONDITION UPON R	RECEIPT IN LAB	IN LAB			REMARKS	REMARKS / SAMPLE COMMENTS	OMMENTS
had	12/11		1. CUSTODY SEALS:	VLS:	Yes	No	o T				
		1 1	2. CONTAINERS CORRECT:	CORRECT:	Yes	No	°			8	
1 Vr		1	3. COC/LABELS AGREE	AGREE:	Yes	No.	°				
Relinguished by: (Signature)	Date/Time	4. Received by	Received by lab: (Signature) 4. RECEIVED ON ICE:		Yes	No No	°				
	1452	Sidom	5. TEMPERATURE ON RECEIPT:		റ്		1				
	1/21/23		6. TEMPER	E GUN ID:	NHT# 5	'					
		(FORCE	FOR COMPLETION BY LAB ONLY	AB ONL	~					



05 December 2023

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

Project: Lagoon Discharge Sample Project Number: November 2023

SDG Number: 2311607

Enclosed are the results of analyses for samples received by the laboratory on 29-Nov-23 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	<i>~</i>
Received On Ice	~
Temperature on Receipt	3.0°C

Sincerely,

Norma James

Technical Director

Project: Lagoon Discharge Sample Project Number: November 2023 Date Received: 29-Nov-23 14:55



ANALYTICAL RESULTS

Lab Number: 2311607-01

Sample Name: Lagoon Discharge Grab (Wynne)

Date/Time Collected: 11/29/23 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	11.3		12/1/23 8:40	B312003	SM 4500-NH3 B,D,C-2011
Fecal Coliforms	MPN/100 mL	550		11/29/23 15:00	B311687	IDEXX Colilert-18
TSS	mg/L	20.7		12/1/23 9:20	B311684	SM 2540 D-2015
CBOD	mg/L	10.8		11/30/23 8:11	B311666	SM 5210B-2016

ANALYTICAL RESULTS

Lab Number: 2311607-02

Sample Name: Lagoon Discharge Field Analysis (AR Analytical)

Date/Time Collected: 11/29/23 11:15
Sample Matrix: Water

Field Analyses	<u>Units</u>	Result	Qualifier(s)	Date/Time Analyzed	<u>Batch</u>	<u>Method</u>
Dissolved Oxygen	mg/L	7.13		11/29/23 11:20	B311692	SM 4500-O G-2011
рН	S.U.	7.96		11/29/23 11:15	B311690	SM 4500-H+ B-2011
Temperature	°C	9.7		11/29/23 11:15	B311691	SM 2550B-2000

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

Project: Lagoon Discharge Sample Project Number: November 2023 Date Received: 29-Nov-23 14:55

QUALITY CONTROL RESULTS

	SULTS					
		Wet Chemistry Bato	•			
	Prepared: 3	0-Nov-23 08:11 By: kd	Analyzed: 30-Nov-23 08:	11 By: kd		
<u>Analyte</u>	<u>BLK</u>	LCS / LCSD	MS / MSD	<u>Dup</u>	<u>RPD</u>	Qualifiers
CBOD	<2.00 mg/L	95.3% / 102%	NA / NA		6.57%	
	Propared: 01	Wet Chemistry Bato	h: B311684 (Water) Analyzed: 01-Dec-23 09::	20 By: MU		
Analysis	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Analyte TSS	<1.00 mg/L	90.0% / 93.0%	NA / NA	<u>545</u>	3.28%	<u>Quaimers</u>
	Prenared: 20	Wet Chemistry Bato	h: B311687 (Water) Analyzed: 29-Nov-23 15:	00 By: K.I		
Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Fecal Coliforms	<1 MPN/100 mL	NA / NA	NA / NA	11 MPN/100 mL	0.00%	<u>quamore</u>
Analyte pH (Field)	Prepared: 29 BLK NA	Field Analyses Bato -Nov-23 09:07 By: MH LCS / LCSD 101% / 101%	MS / MSD NA / NA	07 By: MH <u>Dup</u>	<u>RPD</u> 0.283%	Qualifiers
	Prepared: 29	Field Analyses Bato -Nov-23 13:23 Bv: MH	•	23 Bv: MH		
Analyte		-Nov-23 13:23 By: MH	Analyzed: 29-Nov-23 13:	23 By: MH	RPD	Qualifiers
Analyte Temperature (Field)	Prepared: 29 <u>BLK</u> NA		•		RPD 0.00%	Qualifiers
	<u>BLK</u> NA	-Nov-23 13:23 By: MH	Analyzed: 29-Nov-23 13: MS / MSD NA / NA h: B311692 (Water)	<u>Dup</u> 15.3 °C		Qualifiers
Temperature (Field)	BLK NA Prepared: 29	-Nov-23 13:23 By: MH LCS / LCSD NA / NA Field Analyses Bato -Nov-23 13:27 By: MH	Ms / MSD NA / NA h: B311692 (Water) Analyzed: 29-Nov-23 13:	<u>Dup</u> 15.3 °C 27 By: MH	0.00%	
Temperature (Field) Analyte	BLK NA Prepared: 29	-Nov-23 13:23 By: MH LCS / LCSD NA / NA Field Analyses Bato -Nov-23 13:27 By: MH LCS / LCSD	MS / MSD NA / NA h: B311692 (Water) Analyzed: 29-Nov-23 13: MS / MSD	<u>Dup</u> 15.3 °C 27 By: MH <u>Dup</u>	0.00% RPD	Qualifiers Qualifiers
Temperature (Field)	BLK NA Prepared: 29	-Nov-23 13:23 By: MH LCS / LCSD NA / NA Field Analyses Bato -Nov-23 13:27 By: MH	Ms / MSD NA / NA h: B311692 (Water) Analyzed: 29-Nov-23 13:	<u>Dup</u> 15.3 °C 27 By: MH	0.00%	
Temperature (Field) Analyte	BLK NA Prepared: 29 BLK NA	-Nov-23 13:23 By: MH LCS / LCSD NA / NA Field Analyses Batc -Nov-23 13:27 By: MH LCS / LCSD NA / NA Wet Chemistry Batc	MS / MSD NA / NA h: B311692 (Water) Analyzed: 29-Nov-23 13: MS / MSD NA / NA	<u>Dup</u> 15.3 °C 27 By: MH <u>Dup</u> 7.05 mg/L	0.00% RPD	
Temperature (Field) Analyte	BLK NA Prepared: 29 BLK NA	-Nov-23 13:23 By: MH LCS / LCSD NA / NA Field Analyses Batc -Nov-23 13:27 By: MH LCS / LCSD NA / NA Wet Chemistry Batc	MS / MSD NA / NA h: B311692 (Water) Analyzed: 29-Nov-23 13: MS / MSD NA / NA h: B312003 (Water)	<u>Dup</u> 15.3 °C 27 By: MH <u>Dup</u> 7.05 mg/L	0.00% RPD	

Project: Lagoon Discharge Sample Project Number: November 2023

Project Number: November 2023 Date Received: 29-Nov-23 14:55

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

CLIENT INFORMATION		Project Description	Turnaround Time				Drasamati	on Codes.	
Wynne Water Utilities			I ullial out ullille				r reservation Codes:	OII Codes:	
121 East Werriman		Wheely Sample	2 Day (100%)	1. COOI,	о редгее	Coot, o Degrees Cenngrade	ade	4. Iniosultate for Dechlorination	echlorination
Wynne, AR 72396		Reporting Information	3 Day (25%)	3. Nitric	Acid (Hi	Nitric Acid (HNO ₃), pH < 2	<2	5. Hydrochiolic Acid(HCl) 6. Sodium Hydroxide (NaOH), nH > 12	u(HCI) 2 (NaOH), nH > 12
		Telephone: 870-238-2751	5 Day (Routine)			EST	PARAME	TERS	Bottle Type Code
Attn: Josh Weaver		Fax: 870-238-2044	Preservative Code:	1	_	1,2	1,4		G = Glass; P = Plastic
		Email: jweaver.wwu@gmail.com	Bottle Type:	P	ס		P		V = Septum; A = Amber
14.14									Arkanaa
Sampler(s) Signature	Sampler(s) Printed:	ted: A PUN HADDAN		, D.O. ture)	SS	3	liform		Analytical Work Order Number:
Field SAMPLE COLLECTION		SAMPLE		l (pH pera	D, T	nonia	ıl Co		
Number Date/s Ti	Grab Comp	Sample IDENTIFICA	RIPTION	Field Tem	СВС	Amn	Feca		4001167
01 52/11		Water Lagoor	e)		×	×	×		01
11,29,23 11	×		s (AR Analytical)	×	200				02
, , , ,					·				
		ONSITE MEASUREMENTS by Arkansas Analytical DATE:	Arkansas Analyti	cal D/		11,28,23			
		Sample	Duplicate	QC		QC Duplicate	cate		
		pH (S.U.) 796	797	ンかべ	,	67	100	Field Calibration Record DATE:	TE: 1/28/23
		Time ///	1118	505	,	5	pH /Time	D.O.	Chlorine
		Temperature (°C) 9,5	5.5				4	Time QC	
		Time ///	1118				7		
		Dissolved Oxygen (mg/L) 7 /3	715				10 W	Slope 2	
		Time 1/20	1/22				500		
1. Relinguighed by: (Signature) Date/Time		2. Received by: (Signature) SAMPLE CO	SAMPLE CONDITION UPON RECEIPT IN LAB	ECEIPT	NLAB		REMARK	REMARKS / SAMPLE COMMENTS	MENTS
Ille Was	75	1. CUSTODY SEALS:	YLS:	Yes	No	<u> </u>			
		2. CONTAINERS CORRECT:	CORRECT:	Yes	No	<u> </u>			
1 1/2		3. COC/LABELS AGREE:	\GREE:	Yes	No	Ī			
. Relinguished by: (Signature) Date/Time	14.	Received by lab: (Signature) 4. RECEIVED ON ICE:		+ Yes	No	T			
/45	"Dunk"	5. TEMPERATURE ON RECEIPT:		o c		T			
	1/20 02	6. TEMPERATURE GUN ID:		HHT# 5)				
	June + arrow	W FOR C	FOR COMPLETION BY LAB ONLY	AB ONL			۰		



15 November 2023

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

Project: Lagoon Discharge Sample Project Number: November 2023

SDG Number: 2311193

Enclosed are the results of analyses for samples received by the laboratory on 08-Nov-23 15:30. 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 James

Technical Director

Project: Lagoon Discharge Sample Project Number: November 2023 Date Received: 08-Nov-23 15:30



ANALYTICAL RESULTS

Lab Number: 2311193-01

Sample Name: Lagoon Discharge Grab (Wynne)

Date/Time Collected: 11/8/23 12:30 Water Sample Matrix:

Wet Chemistry	<u>Units</u>	Result	Qualifier(s)	Date/Time Analyzed	<u>Batch</u>	<u>Method</u>
Ammonia as N	mg/L	8.27		11/10/23 8:15	B311237	SM 4500-NH3 B,D,C-2011
Fecal Coliforms	MPN/100 mL	220		11/8/23 15:50	B311226	IDEXX Colilert-18
TSS	mg/L	38.7		11/9/23 16:00	B311202	SM 2540 D-2015
CBOD	mg/L	25.8		11/10/23 7:00	B311232	SM 5210B-2016

ANALYTICAL RESULTS

2311193-02 Lab Number:

Lagoon Discharge Field Analysis (AR Analytical) Sample Name:

Date/Time Collected: 11/8/23 12:40 Sample Matrix: Water

Field Analyses	<u>Units</u>	<u>Result</u>	Qualifier(s)	Date/Time Analyzed	<u>Batch</u>	<u>Method</u>
Dissolved Oxygen	mg/L	14.2		11/8/23 12:45	B311314	SM 4500-O G-2011
рН	S.U.	8.17		11/8/23 12:40	B311312	SM 4500-H+ B-2011
Temperature	°C	19.5		11/8/23 12:40	B311313	SM 2550B-2000

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

Project: Lagoon Discharge Sample Project Number: November 2023 Date Received: 08-Nov-23 15:30

QUALITY CONTROL RESULTS

QUALITY CONTROL RES	BULTS					
		Wet Chemistry Bato				
	Prepared: 09	-Nov-23 16:00 By: MH	Analyzed: 09-Nov-23 16:	:00 By: MH		
<u>Analyte</u>	<u>BLK</u>	LCS / LCSD	MS / MSD	<u>Dup</u>	<u>RPD</u>	Qualifiers
TSS	<1.00 mg/L	88.0% / 86.0%	NA / NA		2.30%	
	Drawarad, 00	Wet Chemistry Bate		.50 D V I		
Analista	-	-	Analyzed: 08-Nov-23 15: MS / MSD	.эо ву. кэ <u>Dup</u>	BBD	Ouglifiers
Analyte Fecal Coliforms	BLK <1 MPN/100 mL	<u>LCS / LCSD</u> NA / NA	NA / NA	190 MPN/100 mL	<u>RPD</u> 17.4%	<u>Qualifiers</u>
	Prepared: 1	Wet Chemistry Bato 0-Nov-23 07:00 By: kd	ch: B311232 (Water) Analyzed: 10-Nov-23 07:	:00 Bv: kd		
<u>Analyte</u>	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
CBOD	<2.00 mg/L	122% / 119%	NA / NA	<u> </u>	2.44%	
	Prepared: 10	Wet Chemistry Bato 0-Nov-23 08:15 By: KJ	ch: B311237 (Water) Analyzed: 10-Nov-23 08:	:15 By: KJ		
<u>Analyte</u>	<u>BLK</u>	LCS / LCSD	MS / MSD	<u>Dup</u>	RPD	Qualifiers
Ammonia as N	<0.500 mg/L	86.7% / NA	82.7% / 86.1%		3.95%	
	Prepared: 08	Field Analyses Bato -Nov-23 09:02 By: MH	ch: B311312 (Water) Analyzed: 08-Nov-23 09:	02 By: MH		
<u>Analyte</u>	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
pH (Field)	NA	101% / 101%	NA / NA		0.141%	
	Propared: 08	Field Analyses Bato	:h: B311313 (Water) Analyzed: 08-Nov-23 14:	·13 Rv: MU		
Analyto	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Analyte Temperature (Field)	NA	NA / NA	NA / NA	20.4 °C	0.00%	<u>Quaimers</u>
		20.000				
	Prepared: 08	Field Analyses Bato -Nov-23 14:17 By: MH	ch: B311314 (Water) Analyzed: 08-Nov-23 14:	17 By: MH		
<u>Analyte</u>	<u>BLK</u>	LCS / LCSD	MS / MSD	<u>Dup</u>	RPD	Qualifiers
Dissolved Oxygen (Field)	NA	NA / NA	NA / NA	6.10 mg/L	0.164%	

Wynne, AR 72396

Project: Lagoon Discharge Sample Project Number: November 2023 Date Received: 08-Nov-23 15:30



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



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

CLIENT INFORMATION				Project Description	ription	Turnaround Time					Preservation	Codes:	
Wynne Water Utilities			Lag	Lagoon Discharge Sample	e Sample	1 Day (100%)	F	Cool, 6 Degrees Centigrade	es Centig	rade		4. Thiosulfate f	4. Thiosulfate for Dechlorination
121 East Merriman				Weekly Sample	nple	2 Day (50%)	2. Sulfu	Sulfuric Acid (H ₂ SO ₄), pH < 2	(H ₂ SO ₄),	pH < 2	11	5. Hydrochloric Acid(HCl)	: Acid(HCI)
Wynne, AR 72396			R	Reporting Information	rmation	3 Day (25%)		Nitric Acid (HNO ₃), pH <	NO ₃), pł	1<2		6. Sodium Hydr	6. Sodium Hydroxide (NaOH), pH > 12
			T	Telephone: 870-238-2751	238-2751	5 Day (Routine)	M		TEST		PARAMETERS	ERS	Bottle Type Code
Attn: Josh Weaver				Fax: 870-238-2044	2044	Preservative Code:		1	1,2	1,4			G = Glass; P = Plastic
			Email	Email: jweaver.wwu@gmail.com	@gmail.com	Bottle Type:	 ס	P	P	ס			V = Septum; A = Amber
100													
Sport V		(Josh Weare	Jeone			Э.,)			n		-	Arkansas
Sampler(s) Signature		Sampler(s) Printed: 🎤	inted: MA	PAtts I HAXXASI	#3).		H, D.0	rss	a	olifor			Order Number:
Field SAMPLE	SAMPLE COLLECTION	Nimber	nher.		SAMPLE		d (pł pera)D, ⁻	noni	al Co			
Number Date/s	Time/s	Grab Comp Bol	of Sample Bottles Matrix	IDENTIFIC	IDENTIFICATION/ DESCRIPTION	RIPTION	Field Tem	СВС	Amr	Fec			23 Q3
8///	12:35		Water	Joon Discharg	Lagoon Discharge Grab (Wynne)	9)		×	×	×			01
11,8,22	1940		0 Water Lag	Joon Discharg	e Field Analysi	Water Lagoon Discharge Field Analysis (AR Analytical)	×						02
10)													
								3					
			ON ON	SITE MEASU	REMENTS by	ONSITE MEASUREMENTS by Arkansas Analyt	ical	DATE:	18/2	W			
					Sample	Duplicate	റ്റ		QC Duplicate	licate			
¥6				pH (S.U.)	875	8,3	2009	,	708	777	Field Calibration Record	1	DATE:11/8723
				Time	ohel	اعمدا	Six)	Sim	0	pH /Time	D.O.	Chlorine
			Ter	Temperature (°C)	7.61	19.5	200			4	,	Time	QC Time
				Time	1240	12-43				7			
				Dissolved Oxygen (mg/L)	14.0	14.3				_	10 <	Slope	2
				Time	Shel	1246					855		
1. Relinguished by: (Signature)	Date/Time	2. Receiv	2. Received by: (Signature)	ure)	SAMPLE C	SAMPLE CONDITION UPON	RECEIPT IN LAB	' IN LAB			REMARKS	SAMPLE	REMARKS / SAMPLE COMMENTS
Lid	11/8/23		1245		1. CUSTODY SEALS:	YLS:	Yes	ľ	'S				
			11/8/23	N	2. CONTAINERS CORRECT:	CORRECT:	Yes		8				
1 0			1		3. COC/LABELS AGREE:	AGREE:	Yes		`8 T				
3. Relinguished by: (Signature)	Date/Time	4. Receiv	Received by lab: (Signature)	nature) 4.	. RECEIVED ON ICE:	ICE:	Yes		ˈŏ				
	12	, 17,	manda		5. TEMPERATUR	TEMPERATURE ON RECEIPT:	റ്		_				
	1550	2	Darker	<u></u> .	. TEMPERATURE GUN ID:	E GUN ID:	#THH	2					
	11,8,23	TWI	Many		FOR (FOR COMPLETION BY LAB ONLY	LAB ON	LY					