

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

22 February 2024

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

Project: Lagoon Discharge Sample Project Number: February 2024

SDG Number: 2402342

Enclosed are the results of analyses for samples received by the laboratory on 14-Feb-24 15:20. 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

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CASE NARRATIVE

Sample Delivery Group - 2402342

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:

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

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ANALYTICAL RESULTS

Lab Number: 2402342-01

Sample Name: Lagoon Discharge Grab (Wynne)

Date/Time Collected: 2/14/24 10:00 Water

Sample Matrix:

| Wet Chemistry | <u>Units</u> | <u>Result</u> | Qualifier(s) | Date/Time Analyzed | <u>Batch</u> | <u>Method</u> |
|-----------------|--------------|---------------|--------------|--------------------|--------------|------------------------|
| Ammonia as N | mg/L | 11.7 | | 2/16/24 8:12 | B402364 | SM 4500-NH3 B,D,C-2011 |
| Fecal Coliforms | MPN/100 mL | TNTC | FC, TNTC | 2/14/24 15:55 | B402345 | IDEXX Colilert-18 |
| TSS | mg/L | 6.50 | | 2/16/24 9:45 | B402363 | SM 2540 D-2015 |
| CBOD | mg/L | 5.62 | | 2/16/24 6:58 | B402355 | SM 5210B-2016 |

ANALYTICAL RESULTS

2402342-02 Lab Number:

Sample Name: Lagoon Discharge Field Analysis (AR Analytical)

Date/Time Collected: 2/14/24 11:50

Water Sample Matrix:

| Field Analyses | <u>Units</u> | Result | Qualifier(s) | Date/Time Analyzed | <u>Batch</u> | <u>Method</u> |
|------------------|--------------|--------|--------------|--------------------|--------------|-------------------|
| Dissolved Oxygen | mg/L | 8.87 | | 2/14/24 11:50 | B402411 | SM 4500-O G-2011 |
| рН | S.U. | 7.54 | | 2/14/24 11:50 | B402408 | SM 4500-H+ B-2011 |
| Temperature | °C | 11 4 | | 2/14/24 11:50 | B402410 | SM 2550B-2000 |

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QUALITY CONTROL RESULTS



Wet Chemistry -- Batch: B402345 (Water)

| | Prepared: 1 | wet Chemistry Batt 4-Feb-24 15:55 By: KJ | Analyzed: 14-Feb-24 15: | 55 By: KJ | | |
|----------------------------|-----------------------------|--|--|---------------------------------|---------------------|------------|
| Analyte Fecal Coliforms | BLK <1 MPN/100 mL | <u>LCS / LCSD</u> NA / NA | MS/MSD NA / NA | <u>Dup</u> 160 MPN/100 mL | <u>RPD</u> 12.8% | Qualifiers |
| | Prepared: 16 | Wet Chemistry Bato 6-Feb-24 06:58 By: MB | ch: B402355 (Water) Analyzed: 16-Feb-24 06: | 58 By: KD | | |
| Analyte | BLK | LCS / LCSD | MS / MSD | <u>Dup</u> | RPD | Qualifiers |
| CBOD | <2.00 mg/L | 115% / 112% | NA / NA | | 2.58% | |
| | Prepared: 16 | Wet Chemistry Bato 5-Feb-24 09:45 By: MH | ch: B402363 (Water) Analyzed: 16-Feb-24 09: | 45 By: MH | | |
| <u>Analyte</u> | BLK | LCS / LCSD | MS / MSD | Dup | RPD | Qualifiers |
| TSS | <1.00 mg/L | 87.0% / 91.0% | NA / NA | | 4.49% | |
| | Prepared: 1 | Wet Chemistry Bato 6-Feb-24 08:12 By: KJ | ch: B402364 (Water) Analyzed: 16-Feb-24 08: | 12 By: KJ | | |
| Analyte | BLK | LCS / LCSD | MS / MSD | <u>Dup</u> | RPD | Qualifiers |
| Ammonia as N | <0.500 mg/L | 87.2% / NA | 91.7% / 93.5% | | 1.98% | |
| | Prepared: 14 | Field Analyses Bato | ch: B402408 (Water) Analyzed: 14-Feb-24 09: | 23 Bv: MH | | |
| Analyte | BLK | LCS / LCSD | MS / MSD | Dup | RPD | Qualifiers |
| pH (Field) | NA | 100% / 99.9% | NA / NA | | 0.286% | |
| | Prepared: 14 | Field Analyses Bato I-Feb-24 10:55 By: MH | ch: B402410 (Water) Analyzed: 14-Feb-24 10: | 55 By: MH | | |
| Analyte | BLK | LCS / LCSD | MS / MSD | <u>Dup</u> | RPD | Qualifiers |
| Temperature (Field) | NA | NA / NA | NA / NA | 9.70 °C | 1.03% | |
| | Prepared: 14 | Field Analyses Bato I-Feb-24 10:55 By: MH | ch: B402411 (Water) Analyzed: 14-Feb-24 10: | 55 By: MH | | |
| Analyte | BLK | LCS / LCSD | MS / MSD | <u>Dup</u> | RPD | Qualifiers |
| Dissolved Oxygen (Field) | NA | NA / NA | NA / NA | 6.21 mg/L | 0.323% | |

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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.

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

| Revision 3 714/24 | (520 | | 3. Relinquished by: (Signature) Date/Time | | Milw | Int. | / 2/14 | 1. Relinquished by: (Signature) | | | | | | | | | | x 0311 KCh12 | x wyor h1/2. | Number Date/s Time/s Grab | Field SAMPLE COLLECTION | Sampler(s) Signature Sa | | Mr. Comments | | Attn: Josh Weaver | | Wynne, AR 72396 | 121 East Merriman | Wynne Water Utilities | CLIENT INFORMATION |
|-------------------|------------------------|-------------------------|---|----------------------|-------|--|-------------------|--------------------------------------|------------|------------------------------|-----------|------------------|----------|--------------------------|--------------|---------------------------------------|--|---|-------------------------------------|-----------------------------|-------------------------|-------------------------|-----------------|--------------|------------------------------|------------------------|-------------------------|---|-------------------------------|-----------------------------------|---------------------|
| CANTO) | | O MININ | 4. Received by lab: (Signature) | (| 12/2/ | Section of the sectio | | 2. Received by: (Signature) | | | | | | | | | | 0 Water L | 3 Water L | Comp Bottles Matrix | Number | Sampler(s) Printed | | Josh Wenn | Em | | | | | | |
| | 6. TEMPERATURE GUN ID: | 5. TEMPERATU | (Signature) 4. RECEIVED ON ICE: | 3. COC/LABELS AGREE: | | 2. CONTAINERS CORRECT: | 1. CUSTODY SEALS: | | Time 1/1/0 | Dissolved Oxygen (mg/L) S.87 | Time 1/50 | Temperature (°C) | Time 150 | pH (S.U.) 754 | Sample | ONSITE MEASUREMENTS by Arkansas Analy | | Lagoon Discharge Field Analysis (AR Analytica | Water Lagoon Discharge Grab (Wynne) | IDENTIFICATION/ DESCRIPTION | SAMPLE | 16-4 (1804-1-16A) | 1 | as va | Email: jweaver.wwu@gmail.com | Fax: 870-238-2044 | Telephone: 870-238-2751 | Reporting Information | Weekly Sample | Lagoon Discharge Sample | Project Description |
| FOR COMPLETION BY | | TEMPERATURE ON RECEIPT: | ON ICE: | AGREE | | S CORRECT: | EALS: | SAMPLE CONDITION UPON RECEIPT IN LAB | 115 | 15:3 | 1155 | 11.4 | 155, | 3 | Duplicate | y Arkansas Analyt | | sis (AR Analytical) | ne) | CRIPTION | | | | | Bottle Type: | Preservative Code: | 5 Day (Routine) | 3 Day (25%) | 2 Day (50%) | 1 Day (100%) | Turnaround Time |
| LAB ONLY | HHT# 5 | 1 00 | Yes | Yes | | Yes | Yes | RECEIPT | | | | | 920 | 701 | QC | ytical DATE | | × | | | ld (p nper | | | 1 | ٦ | _ | | 3. Nitric | 2. Sulfuri | 1. Cool, 6 | |
| ~ | 1 | | No | No | | No | No | IN LAB | | | | | 2 | 6 | | 1 | | | × | СВ | OD, | TSS | <u> </u> | | 7 | 1 | | Nitric Acid (HNO ₃), pH < 2 | Sulfuric Acid (H2SO4), pH < 2 | Cool, 6 Degrees Centigrade | |
| | | T | | | | | | | | | | | mo | 56 | QC Duplicate | 14,24 | | | × | | mon | | | | P | 1,2 1,4 | EST |) ₃), pH < 2 | SO ₄), pH • | Centigrade | |
| | | | | | | | | REMARK | 910 | 10 🔍 | 7 | 4 | pH /Time | Field Calibration Record | te | | | | | rec | cal C | OIITO | orm | | | | PARAMET | | <2 | | Preservation Codes: |
| | | | | | | | | REMARKS / SAMPLE COMMENTS | | Slope 2 | | Time | D.O. | 1 | | | | | | | | | | | | | ERS | 6. Sodium Hydrox | 5. Hydrochloric Acid(HCI) | 4. Thiosulfate for Dechlorination | on Codes: |
| | | | | | | | | OMMENTS | | | | QC Time | Chlorine | DATE 2 PH 24 | | | | 02 | 01 | 2402342 | | Order Number: | Analytical Work | Arkansas | V = Septum; A = Amber | G = Glass; P = Plastic | Bottle Type Code | 6. Sodium Hydroxide (NaOH), pH > 12 | cid(HCl) | Dechlorination | |