

***FINAL EFFLUENT LIMITATIONS COMPLIANCE
(ANNUAL PROGRESS REPORT)***

FOR THE

WASTEWATER TREATMENT PLANT

TO SERVE THE

***CITY OF YELLVILLE
MARION COUNTY, ARKANSAS***

MARCH 2023



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MARION COUNTY, ARKANSAS***

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ENGINEERING SERVICES, INC.

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1. GENERAL OVERVIEW

INTRODUCTION

As a part of the NPDES Discharge Permit prepared and issued by the Arkansas Department of Environmental Quality (Permit Number AR0034037), the City of Yellville is required, under Section B of Part I of the Permit, to submit reports addressing the progress towards attaining the Final Effluent Limitations for the parameters set forth in the Permit according to the following schedule:

<u>ACTIVITY</u>	<u>DUE DATE</u>
Progress Report	One (1) year from effective date
Progress Report	Two (2) years from effective date
Achieve Final Compliance	Three (3) years from effective date

On March 27th, 2023, the City of Yellville requested this report be prepared by Engineering Services, Inc., which serves as the second of the two Progress Reports required.

The existing NPDES Permit is included in Appendix A of this report.

2. EFFLUENT MONITORING RESULTS

EFFLUENT LAB TESTING RESULTS

The City of Yellville has contracted with Environmental Services Company, Inc. to perform the lab analysis on its effluent samples. The results for the months of January 2022 through February 2023 are summarized in the following table.

Month	Effluent (Mo. Avg.)									
	DO mg/L	pH S.U.	TSS mg/L	NH ₃ mg/L	NO ₃ -NO ₂ mg/L	Cl mg/L	SO ₄ mg/L	TDS mg/L	Fecal CFU/100mL	CBOD ₅ mg/L
Jan-22	10.20	7.30	4.30	0.03	6.11	40.00	1.00	208.00	3.30	2.00
Feb-22	8.20	7.10	4.40	0.35	2.61	30.00	10.00	320.00	8.10	2.50
Mar-22	8.30	7.50	4.30	1.09	3.02	50.00	10.00	354.00	9.40	2.00
Apr-22	9.00	7.10	2.72	0.01	3.83	39.00	10.00	380.00	1.00	3.30
May-22	8.70	7.70	2.80	0.02	5.20	39.00	10.00	614.00	1.00	2.60
Jun-22	8.00	7.90	5.51	0.03	5.37	39.90	2.06	294.00	4.40	4.63
Jul-22	8.38	7.00	4.00	0.05	12.30	99.90	1.00	410.00	31.19	3.71
Aug-22	7.90	7.80	4.00	0.05	4.07	58.90	10.40	706.00	29.27	3.44
Sep-22	8.25	8.10	3.01	0.12	6.01	95.00	20.00	10.00	17.02	4.95
Oct-22	8.47	7.00	3.92	2.34	7.36	109.90	15.00	181.70	7.07	2.00
Nov-22	10.14	7.50	10.00	1.21	3.74	39.90	31.00	21.70	14.49	2.00
Dec-22	9.65	7.20	10.00	0.05	1.99	39.00	2.00	330.00	2.00	2.00
Jan-23	6.00	7.50	7.07	1.03	1.29	35.00	22.00	86.90	7.83	2.00
Feb-23	9.74	7.20	4.69	0.02	3.09	65.00	19.00	43.70	10.08	2.00
AVERAGE	8.6	7.4	5.1	0.5	4.7	55.8	11.7	282.9	10.4	2.8

Table 1. Effluent Lab Testing Results (Jan 2022 – Feb 2023)

Copies of the Discharge Monitoring Reports (DMRs) are included in Appendix B of this report.

FINAL EFFLUENT LIMITATION COMPARISON

The current permit includes two tables with effluent limitations and monitoring requirements for during and after the interim period, respectively. The interim period provided by ADEQ for final compliance with the new Dissolved Oxygen (DO) and Nitrate + Nitrite-Nitrogen (NO₃+NO₂-N) limits began on the effective date of the permit (April 1, 2021) and will last three years after the effective date (April 1, 2024). The final effluent limitations will be effective after the interim period and will last until the expiration date of the permit (March 31, 2026).

Nitrate + Nitrite - Nitrogen

In July 2022, the concentration reported for Nitrate + Nitrite-Nitrogen exceeded the effluent limitation of 10 mg/l required by the NPDES Permit for both during and after the interim period. As shown in Table 1 and Figure 1, the July 2022 DMR reported a $\text{NO}_3+\text{NO}_2\text{-N}$ concentration of 12.30 mg/l in the discharge.

As described in the non-compliance letter included in Appendix C, this exceedance was due to a blower staying on for longer than intended during a high heat period, affecting the denitrification process in the aeration basin. The aeration basin at the City of Yellville's Wastewater Treatment Plant also functions as an anoxic basin when the oxygen levels decrease. When the low DO level of 0.06 mg/l in the basin is reached, the blowers are set to turn off, and the whole basin becomes anoxic. This causes the appropriate bacteria to break down the nitrate and nitrite molecules in search of the oxygen they need, and release the nitrogen into the atmosphere in the form of nitrogen gas. The blowers are programmed to stay off for 360 minutes after the low DO set point is reached to allow this denitrification process to occur. However, as mentioned previously, due to the high temperatures in the days the effluent limit violation occurred, a blower turned on and remained on, preventing the denitrification process described above to happen.

To prevent a similar situation from occurring again, the City of Yellville is considering installing a temporary cover for the blowers.

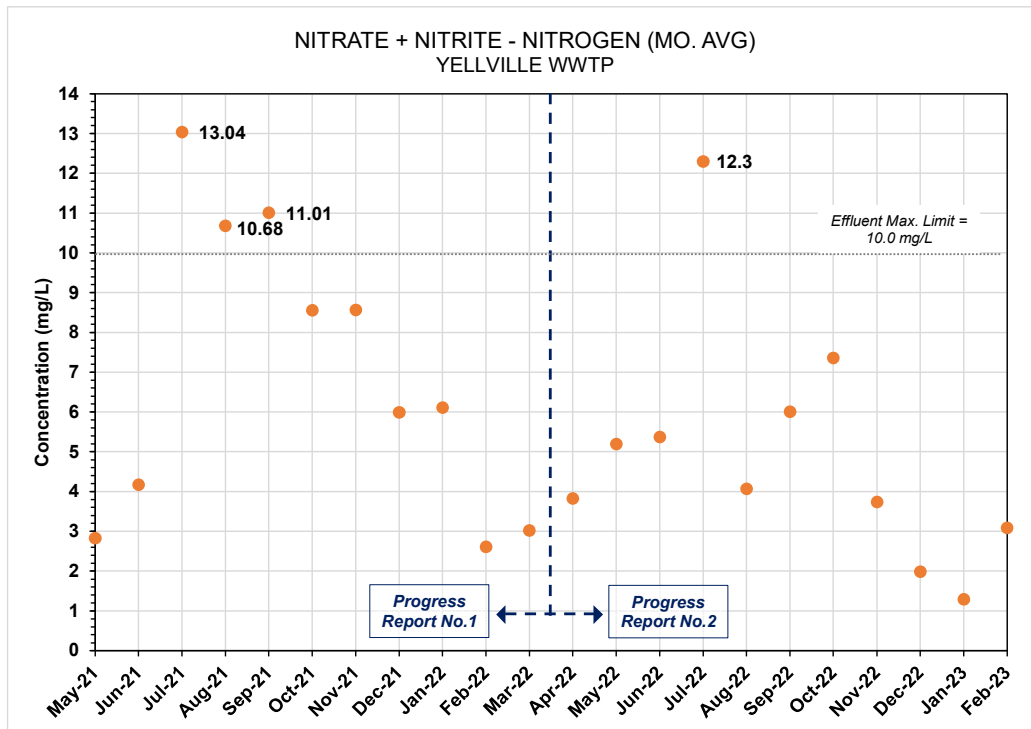


Figure 1. $\text{NO}_3+\text{NO}_2\text{-N}$ Lab Testing Results (May 2021 – Feb 2023)

Dissolved Oxygen

As can be seen in Table 1 and Figure 2, no exceedances of the Dissolved Oxygen effluent limit were reported in the past year.

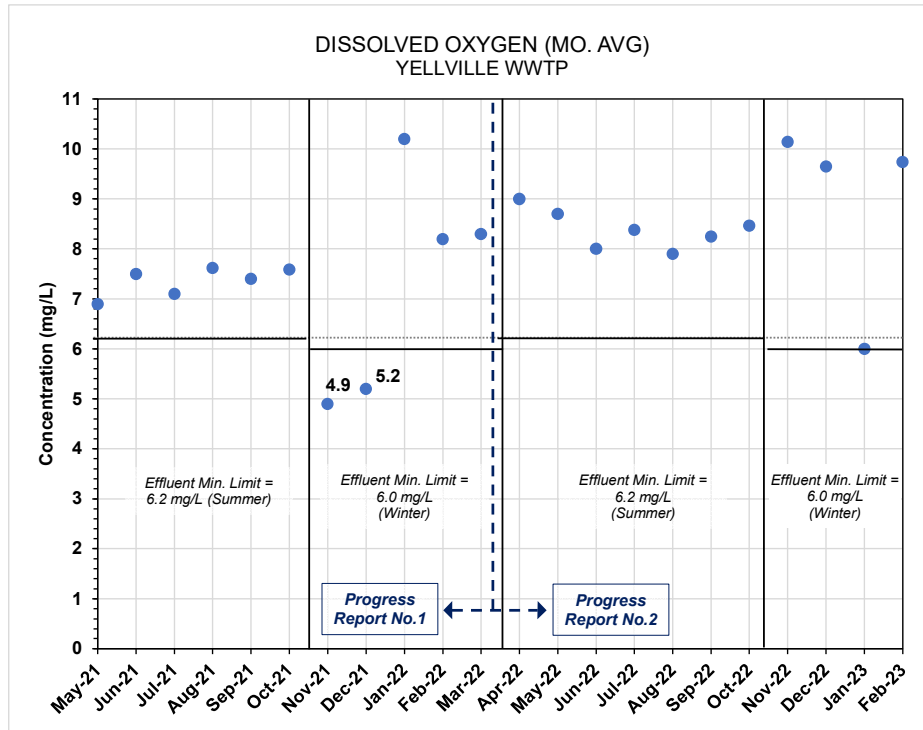


Figure 2. DO Lab Testing Results (May 2021 – Feb 2023)

CONCLUSIONS AND RECOMMENDATIONS

As illustrated in the previous graphs, the first progress report covered the period between April 2021 and March 2022. The discharge limits for concentration of $\text{NO}_3+\text{NO}_2\text{-N}$ *were only exceeded once since the instances reported 18 months ago*. Similarly, the last instance of non-compliance with the effluent limits for Dissolved Oxygen *was over a year ago, in December 2021*.

The City of Yellville remains in compliance with the new effluent limitations for Dissolved Oxygen and Nitrate + Nitrite-Nitrogen as required by the NPDES Permit. The city is confident the processes currently utilized in their Wastewater Treatment Plant will continue to be effective in meeting the required limits for each parameter. However, it is recommended they move forward with the option to provide the blowers with cover to prevent any potential issues caused by a high heat period. Similarly, if frequent malfunctions in the system result in exceedances of the $\text{NO}_3+\text{NO}_2\text{-N}$ effluent limitations, it would also be recommended to install a separate anoxic basin to aid in the denitrifying process and consequent compliance with the new limits. It is important to note, however, that an additional anoxic basin does not seem necessary at this moment, based on the effluent lab testing results and the conclusions discussed in this report.

APPENDIX A

NPDES Permit AR0034037

**AUTHORIZATION TO DISCHARGE WASTEWATER UNDER
THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM AND
THE ARKANSAS WATER AND AIR POLLUTION CONTROL ACT**

In accordance with the provisions of the Arkansas Water and Air Pollution Control Act (Ark. Code Ann. 8-4-101 et seq.), and the Clean Water Act (33 U.S.C. § 1251 et seq.),

City of Yellville
Yellville Wastewater Treatment Plant

is authorized to discharge treated municipal wastewater from a facility located as follows: 1385 Marion County 6001, Yellville, AR 72687 in Marion County. From the intersection of Highway 412 East & Highway 14, go south on Highway 14 approximately 1.5 miles to Mill Creek Road, then 1.5 miles east on Mill Creek Road.

Facility Coordinates: Latitude: 36° 13' 13.5" N; Longitude: 92° 39' 41.08" W

Receiving stream: Crooked Creek, thence to the White River in Segment 4I of the White River Basin.

The permitted outfall is located at the following coordinates:

Outfall 001: Latitude: 36° 13' 15" N; Longitude: 92° 39' 50" W

Discharge shall be in accordance with effluent limitations, monitoring requirements, and other conditions set forth in this permit. Per Part III.D.10, the permittee must re-apply 180 days prior to the expiration date below for permit coverage to continue beyond the expiration date.

Effective Date: April 1, 2021
Expiration Date: March 31, 2026



Digitally signed by Alan J. York
DN: cn=Alan J. York, o, ou,
email=alan.york@adeq.state.ar.u
s, c=US
Date: 2021.03.29 14:01:43 -05'00'

03/29/2021

Alan J. York
Associate Director, Office of Water Quality
Arkansas Department of Energy and Environment
Division of Environmental Quality

Issue Date

**PART I
PERMIT REQUIREMENTS**

SECTION A. INTERIM EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS: OUTFALL 001 - treated municipal wastewater.

During the period beginning on the effective date and lasting 3 years after the effective date, the permittee is authorized to discharge from Outfall 001. Such discharges shall be limited and monitored by the permittee as specified below as well as Parts II and III. See Part IV for all definitions.

<u>Effluent Characteristics</u>	<u>Discharge Limitations</u>			<u>Monitoring Requirements</u>	
	Mass (lbs/day, else specified)	Concentration (mg/l, else specified)		Frequency	Sample Type
	Monthly Avg.	Monthly Avg.	7-Day Avg.		
Flow	N/A	Report, MGD	Report, MGD (Daily Max.)	once/day	totalizing meter
Overflows	Monthly Total SSOs (occurrences/month)			see comments ¹	
Overflow Volume	Monthly Total Volume of SSOs (gallons/month)			see comments ¹	
Carbonaceous Biochemical Oxygen Demand (CBOD ₅)	62.6	10	15	two/month	composite
Total Suspended Solids (TSS)	93.8	15.0	22.5	two/month	composite
Ammonia Nitrogen (NH ₃ -N)					
(April)	24.4	3.9	3.9	three/month	composite
(May – October)	6.3	1.0	1.5	three/month	composite
(November – March)	31.3	5.0	7.5	three/month	composite
Dissolved Oxygen (DO)	N/A	6.0 (Inst. Min.)		three/month	grab
Fecal Coliform Bacteria (FCB)		(colonies/100ml)			
	N/A	200	400	three/month	grab
Nitrate + Nitrite Nitrogen (NO ₃ + NO ₂ -N)	62.6	10.0	15.0	two/month	grab
Chloride (Cl)	Report	Report	Report	once/month	grab
Sulfate (SO ₄)	Report	Report	Report	once/month	grab
Total Dissolved Solids (TDS)	Report	Report	Report	once/month	grab
pH	N/A	<u>Minimum</u> 6.0 s.u.	<u>Maximum</u> 9.0 s.u.	three/month	grab

¹ See Condition No. 6 of Part II (SSO Condition). If there are no overflows during the entire month, report “zero” (0).

Oil, grease, or petrochemical substances shall not be present in receiving waters to the extent that they produce globules or other residue or any visible, colored film on the surface or coat the banks and/or bottoms of the waterbody or adversely affect any of the associated biota. There shall be no visible sheen as defined in Part IV of this permit.

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge during the entire monitoring period. Samples shall be taken after final treatment, prior to the receiving stream.

**PART I
PERMIT REQUIREMENTS**

SECTION A. FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS: OUTFALL 001 - treated municipal wastewater.

During the period beginning 3 years after the effective date and lasting until the expiration date, the permittee is authorized to discharge from Outfall 001. Such discharges shall be limited and monitored by the permittee as specified below as well as Parts II and III. See Part IV for all definitions.

<u>Effluent Characteristics</u>	<u>Discharge Limitations</u>			<u>Monitoring Requirements</u>	
	Mass (lbs/day, else specified)	Concentration (mg/l, else specified)		Frequency	Sample Type
	Monthly Avg.	Monthly Avg.	7-Day Avg.		
Flow	N/A	Report, MGD	Report, MGD (Daily Max.)	once/day	totalizing meter
Overflows	Monthly Total SSOs (occurrences/month)			see comments ¹	
Overflow Volume	Monthly Total Volume of SSOs (gallons/month)			see comments ¹	
Carbonaceous Biochemical Oxygen Demand (CBOD ₅)	62.6	10	15	two/month	composite
Total Suspended Solids (TSS)	93.8	15.0	22.5	two/month	composite
Ammonia Nitrogen (NH ₃ -N)					
(April)	24.4	3.9	3.9	three/month	composite
(May – October)	6.3	1.0	1.5	three/month	composite
(November – March)	31.3	5.0	7.5	three/month	composite
Dissolved Oxygen (DO)					
(May-October)	N/A	6.2 (Inst. Min.)		three/month	grab
(November-April)	N/A	6.0 (Inst. Min.)		three/month	grab
Fecal Coliform Bacteria (FCB)	(colonies/100ml)				
	N/A	200	400	three/month	grab
Nitrate + Nitrite Nitrogen (NO ₃ + NO ₂ -N)	62.6	10.0	10.0	two/month	grab
Chloride (Cl)	Report	Report	Report	once/month	grab
Sulfate (SO ₄)	Report	Report	Report	once/month	grab
Total Dissolved Solids (TDS)	Report	Report	Report	once/month	grab
pH	N/A	<u>Minimum</u> 6.0 s.u.	<u>Maximum</u> 9.0 s.u.	three/month	grab

¹ See Condition No. 6 of Part II (SSO Condition). If there are no overflows during the entire month, report “zero” (0).

Oil, grease, or petrochemical substances shall not be present in receiving waters to the extent that they produce globules or other residue or any visible, colored film on the surface or coat the banks and/or bottoms of the waterbody or adversely affect any of the associated biota. There shall be no visible sheen as defined in Part IV of this permit.

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge during the entire monitoring period. Samples shall be taken after final treatment, prior to the receiving stream.

SECTION B. PERMIT COMPLIANCE SCHEDULE

Compliance with the Final Effluent Limitations for Dissolved Oxygen and Nitrate + Nitrite-Nitrogen is required three years after the effective date of the permit. The permittee shall submit progress reports addressing the progress towards attaining the Final Effluent Limitations for the aforementioned parameters according to the following schedule:

<u>ACTIVITY</u>	<u>DUE DATE</u>
Progress Report ^{1,2}	One (1) year from effective date
Progress Report ^{1,3}	Two (2) years from effective date
Achieve Final Compliance ^{1,4}	Three (3) years from effective date

All progress reports must be submitted to the Division at the following address:

Enforcement Branch
Office of Water Quality
Division of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118-5317

Information can also be submitted electronically via email at water-enforcement-report@adeq.state.ar.us.

- ¹ If the permittee is already in compliance with a final permit limit, only documentation demonstrating compliance with the final limit will be required for the progress report.
- ² If the permittee is not in compliance with the Final Limitations following one (1) year of sampling, the initial Progress Report must detail how the permittee plans to come into compliance with the final limits within the remaining 2 years of the interim period. Options must be provided that were considered along with which option* was selected. Any Best Management Practices (BMPs) that have been instituted to reduce the concentration in the influent must also be discussed. If a study will be performed, a milestone schedule for the study must be provided.
 - * The permittee has the option to undertake any study deemed necessary to meet the final limitations during the interim period. Any additional treatment (including chemical addition) must be approved and construction approval granted prior to final installation.
- ³ The second Progress Report must contain an update on the status of the chosen option from the initial Progress Report. If the facility is not meeting any of the milestones provided in the initial Progress Report, the facility must update the milestone schedule to show how the final limits will be met by the deadline.
- ⁴ A final Progress Report must be submitted no later than 30 days following the final compliance date and include a certification that the final effluent limits were met on the effective date and that the limits are still being met.

PART II OTHER CONDITIONS

1. The operator of this wastewater treatment facility shall be licensed as at least Class II by the State of Arkansas in accordance with APC&EC Rule No. 3.
2. For publicly owned treatment works, the 30-day average percent removal for Carbonaceous Biochemical Oxygen Demand (CBOD₅) and Total Suspended Solids (TSS) shall not be less than 85 percent unless otherwise authorized by the permitting authority in accordance with 40 CFR Part 133.102.
3. In accordance with 40 CFR Parts 122.62(a)(2) and 124.5, this permit may be reopened for modification or revocation and/or reissuance to require additional monitoring and/or effluent limitations when new information is received that actual or potential exceedance of State water quality criteria and/or narrative criteria are determined to be the result of the permittee's discharge(s) to a relevant water body or a Total Maximum Daily Load (TMDL) is established or revised for the water body that was not available at the time of the permit issuance that would have justified the application of different permit conditions at the time of permit issuance.
4. Other Specified Monitoring Requirements

The permittee may use alternative appropriate monitoring methods and analytical instruments other than as specified in Part I.A of the permit without a major permit modification under the following conditions:

- The monitoring and analytical instruments are consistent with accepted scientific practices.
- The requests shall be submitted in writing to the Permits Branch of the Office of Water Quality of the DEQ for use of the alternate method or instrument.
- The method and/or instrument is in compliance with 40 CFR Part 136 or approved in accordance with 40 CFR Part 136.5.
- All associated devices are installed, calibrated, and maintained to ensure the accuracy of the measurements and are consistent with the accepted capability of that type of device. The calibration and maintenance shall be performed as part of the permittee's laboratory Quality Assurance/Quality Control (QA/QC) program.

Upon written approval of the alternative monitoring method and/or analytical instruments, these methods or instruments must be consistently utilized throughout the monitoring period. DEQ must be notified in writing and the permittee must receive written approval from DEQ if the permittee decides to return to the original permit monitoring requirements.

5. Best Management Practices (BMPs), as defined in Part IV.7, must be implemented for the facility along with the collection system to prevent or reduce the pollution of waters of the State from stormwater runoff, spills or leaks, sludge or waste disposal, or drainage from raw sewage. The permittee must amend the BMPs whenever there is a change in the facility or a change in the operation of the facility.

6. Sanitary Sewer Overflow (SSO) Reporting Requirements:

A. A sanitary sewer overflow is any spill, release or diversion of wastewater from a sanitary sewer collection system including:

1. Any overflow, whether it discharges to the waters of the state or not.
2. An overflow of wastewater, including a wastewater backup into a building (other than a backup caused solely by a blockage or other malfunction in a privately owned sewer or building lateral), even if that overflow does not reach waters of the state.

B. 24-Hour Reporting:

When an SSO is detected – no matter how small – it must be reported within 24 hours of its discovery to DEQ’s Water Quality Enforcement by using the online form in paragraph C below (the preferred method), by phone at (501) 682-0638, or by email at ssoadeq@adeq.state.ar.us.

This initial 24-hour report should include the following information:

1. Permit Number
2. Location of overflow (manhole number or street address)
3. The receiving water (if applicable)
4. Cause of overflow (if known)
5. Estimated volume of overflow so far
6. Total duration of the overflow

C. 5-Day Follow-Up Written Web Reporting:

A written report of overflows shall be provided to DEQ within 5 days of the 24-hour oral report. A follow-up written report (5-day report) can be filled-in and submitted on the DEQ Office of Water Quality/Enforcement Branch Web page at:

<https://www.adeq.state.ar.us/water/enforcement/sso/submit.aspx?type=s>

D. 24-Hour and 5-Day Reporting:

If the 24-hour report submitted includes all of the information requested in the 5-day report described in Paragraph C above, then a follow-up 5-day report is not required.

E. Reporting for All SSOs on DMR:

At the end of the month, total the daily occurrences and volumes from all locations on your system and report this number on the DMR. For counting occurrences, each location on the sanitary sewer system where there is an overflow, spill, release, or diversion of wastewater on a given day is counted as one occurrence. For example, if on a given day overflows occur from a manhole at one location and from a damaged pipe at another location then you should record two occurrences for that day.

7. Contributing Industries and Pretreatment Requirements

A. The following pollutants may not be introduced into the treatment facility:

1. Pollutants which create a fire or explosion hazard in the publicly owned treatment works (POTW), including, but not limited to, wastestreams with a closed cup flashpoint of less than 140 degrees Fahrenheit (°F) or 60 degrees Centigrade (°C) using the test methods specified in 40 CFR 261.21;
2. Pollutants which will cause corrosive structural damage to the POTW, but in no case discharges with pH lower than 5.0 s.u., unless the works is specifically designed to accommodate such discharges;
3. Solid or viscous pollutants in amounts which will cause obstruction to the flow in the POTW, resulting in Interference* or Pass Through**;
4. Any pollutant, including oxygen demanding pollutants (BOD, etc.), released in a discharge at a flow rate and/or pollutant concentration which will cause Pass Through or Interference with the POTW;
5. Heat in amounts which will inhibit biological activity in the POTW resulting in Interference, but in no case heat in such quantities that the temperature at the POTW treatment plant exceeds 40 °C (104 °F) unless the Approval Authority, upon request of the POTW, approves alternate temperature limits;
6. Petroleum oil, non-biodegradable cutting oil, or products of mineral oil origin in amounts that will cause Interference or Pass Through;
7. Pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity that may cause acute worker health and safety problems;
8. Any trucked or hauled pollutants, except at discharge points designated by the POTW.

B. The permittee shall require any indirect discharger to the treatment works to comply with the reporting requirements of Sections 204(b), 307, and 308 of the Clean Water Act (CWA), including any requirements established under 40 CFR Part 403.

C. The permittee shall provide adequate notice to the Division of the following:

1. Any new introduction of pollutants into the treatment works from an indirect discharger which would be subject to Sections 301 or 306 of the CWA if it were directly discharging those pollutants; and
2. Any substantial change in the volume or character of pollutants being introduced into the treatment works by a source introducing pollutants into the treatment works at the time of issuance of the permit.

Any notice shall include information on (i) the quality and quantity of effluent to be introduced into the treatment works, and (ii) any anticipated impact of the change on the quality or quantity of effluent to be discharged from the POTW.

* According to 40 CFR 403.3(k), the term *Interference* means a Discharge which, alone or in conjunction with a discharge or discharges from other sources, both:

1. Inhibits or disrupts the POTW, its treatment processes or operations, or its sludge processes, use or disposal; and
2. Therefore is a cause of a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation) or of the prevention of sewage sludge use or disposal in compliance with the following statutory provisions and regulations or permits issued thereunder (or more stringent State or local regulations): Section 405 of the CWA, the Solid Waste Disposal Act (SWDA) (including title II, more commonly referred to as the Resource Conservation and Recovery Act (RCRA), and including State regulations contained in any State sludge management plan prepared pursuant to subtitle D of the SWDA), the Clean Air Act, the Toxic Substances Control Act, and the Marine Protection, Research and Sanctuaries Act.

** According to 40 CFR 403.3(p), the term *Pass Through* means a Discharge which exits the POTW into waters of the United States in quantities or concentrations which, alone or in conjunction with a discharge or discharges from other sources, is a cause of a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation).

8. Monitoring Frequency Reduction

The permittee may request a one-time monitoring frequency reduction for pollutants listed in Part I, Section A, *Effluent Limitations and Monitoring Requirements*. Any request for a monitoring frequency reduction must be submitted in writing to DEQ, and signed by the Responsible Official, in accordance with Part III.D.11.A of the permit.

The following requirements must be met before a review of the monitoring frequency reduction request will be performed:

- A. Compliance with the permit limits for at least the last two (2) years for the pollutants for which a request has been made for a monitoring frequency reduction;
- B. No operational or design changes have been made to the facility for at least the last two (2) years (or during period of review, if greater than two (2) years), and are not anticipated for the remaining term of this permit.

If the above conditions are met, a detailed review of the DMR data will be performed for the pollutants for which a monitoring frequency reduction has been requested. Compliance with the limits does not guarantee a monitoring frequency reduction will be granted. Data must

show that the average concentration of the pollutants in the discharge are less than 75% of the permit limits for a monitoring frequency reduction to be granted.

If a monitoring frequency reduction is granted, the frequency can be reduced by no more than half the rate of the corresponding frequency listed in Part I, Section A, *Effluent Limitations and Monitoring Frequencies*. For example, a monitoring frequency of 4 per month will not be reduced to less than 2 per month. Additionally, the frequency will be no less frequent than monthly.

PART III STANDARD CONDITIONS

SECTION A – GENERAL CONDITIONS

1. Duty to Comply

The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Water Act and the Arkansas Water and Air Pollution Control Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; and/or for denial of a permit renewal application. **Any values reported in the required Discharge Monitoring Report (DMR) which are in excess of an effluent limitation specified in Part I shall constitute evidence of violation of such effluent limitation and of this permit.**

2. Penalties for Violations of Permit Conditions

The Arkansas Water and Air Pollution Control Act provides that any person who violates any provisions of a permit issued under the Act shall be guilty of a misdemeanor and upon conviction thereof shall be subject to imprisonment for not more than one (1) year, or a fine of not more than twenty-five thousand dollars (\$25,000) or by both such fine and imprisonment for each day of such violation. Any person who violates any provision of a permit issued under the Act may also be subject to civil penalty in such amount as the court shall find appropriate, not to exceed ten thousand dollars (\$10,000) for each day of such violation. The fact that any such violation may constitute a misdemeanor shall not be a bar to the maintenance of such civil action.

3. Permit Actions

This permit may be modified, revoked and reissued, or terminated for cause including, but not limited to the following:

- A. Violation of any terms or conditions of this permit.
- B. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts.
- C. A change in any conditions that requires either a temporary or permanent reduction or elimination of the authorized discharge.
- D. A determination that the permitted activity endangers human health or the environment and can only be regulated to acceptable levels by permit modification or termination.
- E. Failure of the permittee to comply with the provisions of APC&EC Rule No. 9 (Permit fees) as required by Part III.A.11 herein.

The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

4. **Toxic Pollutants**

Notwithstanding Part III.A.3, if any toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under APC&EC Rule No. 2, as amended, or Section 307(a) of the Clean Water Act for a toxic pollutant which is present in the discharge and that standard or prohibition is more stringent than any limitations on the pollutant in this permit, this permit shall be modified or revoked and reissued to conform to the toxic effluent standards or prohibition and the permittee so notified.

The permittee shall comply with effluent standards, narrative criteria, or prohibitions established under APC&EC Rule No. 2, as amended, or Section 307(a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

5. **Civil and Criminal Liability**

Except as provided in permit conditions for “Bypass of Treatment Facilities” (Part III.B.4), and “Upset” (Part III.B.5), nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance. Any false or materially misleading representation or concealment of information required to be reported by the provisions of this permit or applicable state and federal statutes or regulations which defeats the regulatory purposes of the permit may subject the permittee to criminal enforcement pursuant to the Arkansas Water and Air Pollution Control Act (Ark. Code Ann. § 8-4-101 et seq.).

6. **Oil and Hazardous Substance Liability**

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject to under Section 311 of the Clean Water Act.

7. **State Laws**

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation under authority preserved by Section 510 of the Clean Water Act.

8. **Property Rights**

The issuance of this permit does not convey any property rights of any sort, or any exclusive privileges, nor does it authorize any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State, or local laws or regulations.

9. **Severability**

The provisions of this permit are severable, and if any provision of this permit, or the application of any provisions of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

10. **Applicable Federal, State or Local Requirements**

Permittees are responsible for compliance with all applicable terms and conditions of this permit. Receipt of this permit does not relieve any operator of the responsibility to comply with any other applicable federal requirements such as endangered species, state or local statute, ordinance or regulation.

11. **Permit Fees**

The permittee shall comply with all applicable permit fee requirements (i.e., including annual permit fees following the initial permit fee that will be invoiced every year the permit is active) for wastewater discharge permits as described in APC&EC Rule No. 9 (Rule for the Fee System for Environmental Permits). Failure to promptly remit all required fees shall be grounds for the Director to initiate action to terminate this permit under the provisions of 40 CFR Parts 122.64 and 124.5(d), as adopted in APC&EC Rule No. 6 and the provisions of APC&EC Rule No. 8.

SECTION B – OPERATION AND MAINTENANCE OF POLLUTION CONTROLS

1. **Proper Operation and Maintenance**

A. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit.

B. The permittee shall provide an adequate operating staff which is duly qualified to carryout operation, maintenance, and testing functions required to ensure compliance with the conditions of this permit.

2. **Need to Halt or Reduce not a Defense**

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. Upon reduction, loss, or failure of the treatment facility, the permittee shall, to the extent necessary to maintain compliance with its permit, control production or discharges or both until the facility is restored or an alternative method of

treatment is provided. This requirement applies, for example, when the primary source of power for the treatment facility is reduced, is lost, or alternate power supply fails.

3. **Duty to Mitigate**

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment or the water receiving the discharge.

4. **Bypass of Treatment Facilities**

“Bypass” means the intentional diversion of waste streams from any portion of a treatment facility, as defined at 40 CFR 122.41(m)(1)(i).

A. Bypass not exceeding limitation

The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts III.B.4.B and 4.C.

B. Notice

1. Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten days before the date of the bypass.
2. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Part III.D.6 (24-hour notice).

C. Prohibition of bypass

1. Bypass is prohibited and the Director may take enforcement action against a permittee for bypass, unless:
 - (a) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 - (b) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if the permittee could have installed adequate backup equipment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - (c) The permittee submitted notices as required by Part III.B.4.B.
2. The Director may approve an anticipated bypass, after considering its adverse effects, if the Director determines that it will meet the three conditions listed above in Part III.B.4.C(1).

5. **Upset Conditions**

- A. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of Part III.B.5.B of this section are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
- B. Conditions necessary for demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
1. An upset occurred and that the permittee can identify the specific cause(s) of the upset.
 2. The permitted facility was at the time being properly operated.
 3. The permittee submitted notice of the upset as required by Part III.D.6.
 4. The permittee complied with any remedial measures required by Part III.B.3.
- C. Burden of proof. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

6. **Removed Substances**

- A. Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in a manner such as to prevent any pollutant from such materials from entering waters of the State. The Permittee must comply with all applicable state and Federal regulations governing the disposal of sludge, including but not limited to 40 CFR Part 503, 40 CFR Part 257, and 40 CFR Part 258.
- B. Any changes to the permittee's disposal practices described in the Statement of Basis, as derived from the permit application, will require at least 180 days prior notice to the Director to allow time for additional permitting. Please note that the 180 day notification requirement may be waived if additional permitting is not required for the change.

7. **Power Failure**

The permittee is responsible for maintaining adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failure either by means of alternate power sources, standby generators, or retention of inadequately treated effluent.

SECTION C – MONITORING AND RECORDS

1. **Representative Sampling**

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge during the entire monitoring period. All samples shall be taken at the monitoring points specified in this permit and, unless otherwise specified, before the effluent joins or is diluted by any other waste stream, body of water, or substance. Monitoring points shall not be changed without notification to and the approval of the Director. Intermittent discharge shall be monitored.

2. **Flow Measurement**

Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated, and maintained to ensure the accuracy of the measurements are consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than +/- 10% from true discharge rates throughout the range of expected discharge volumes and shall be installed at the monitoring point of the discharge.

Calculated Flow Measurement

For calculated flow measurements that are performed in accordance with either the permit requirements or a Division approved method (i.e., as allowed in the *Other Specified Monitoring Requirements* condition under Part II), the +/- 10% accuracy requirement described above is waived. This waiver is only applicable when the method used for calculation of the flow has been reviewed and approved by the Division.

3. **Monitoring Procedures**

Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit. The permittee shall calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals frequent enough to ensure accuracy of measurements and shall ensure that both calibration and maintenance activities will be conducted. An adequate analytical quality control program, including the analysis of sufficient standards, spikes, and duplicate samples to ensure the accuracy of all required analytical results shall be maintained by the permittee or designated commercial laboratory. At a minimum, spikes and duplicate samples are to be analyzed on 10% of the samples.

4. **Penalties for Tampering**

The Arkansas Water and Air Pollution Control Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate, any monitoring device or method required to be maintained under the Act shall be guilty of a misdemeanor and upon conviction thereof

shall be subject to imprisonment for not more than one (1) year or a fine of not more than ten thousand dollars (\$10,000) or by both such fine and imprisonment.

5. **Reporting of Monitoring Results**

40 CFR 127.11(a)(1) and 40 CFR 127.16(a) require that monitoring reports must be reported on a Discharge Monitoring Reports (DMR) and filed electronically. Signatory Authorities must initially request access for a NetDMR account. Once a NetDMR account is established, access to electronic filing should use the following link <https://cdx.epa.gov>. Permittees who are unable to file electronically may request a waiver from the Director in accordance with 40 CFR 127.15. Monitoring results obtained during the previous monitoring period shall be summarized and reported on a DMR dated and submitted no later than the 25th day of the month, following the completed reporting period beginning on the effective date of the permit.

6. **Additional Monitoring by the Permittee**

If the permittee monitors any pollutant more frequently than required by this permit, using test procedures approved under 40 CFR Part 136 or as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR. Such increased frequency shall also be indicated on the DMR.

7. **Retention of Records**

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit for a period of at least 3 years from the date of the sample, measurement, report, or application. This period may be extended by request of the Director at any time.

8. **Record Contents**

Records and monitoring information shall include:

- A. The date, exact place, time and methods of sampling or measurements, and preservatives used, if any.
- B. The individual(s) who performed the sampling or measurements.
- C. The date(s) and time analyses were performed.
- D. The individual(s) who performed the analyses.
- E. The analytical techniques or methods used.
- F. The measurements and results of such analyses.

9. **Inspection and Entry**

The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

- A. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit.
- B. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit.
- C. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit.
- D. Sample, inspect, or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act, any substances or parameters at any location.

SECTION D – REPORTING REQUIREMENTS

1. **Planned Changes**

The Permittee shall give notice to the Director as soon as possible but no later than 180 days prior to any planned physical alterations or additions to the permitted facility [40 CFR 122.41(l)]. Notice is required only when:

- A. The alteration or addition to a permitted facility may meet one of the criteria for new sources at 40 CFR 122.29(b).
- B. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants subject to effluent limitations in the permit, or to the notification requirements under 40 CFR 122.42(b).

2. **Anticipated Noncompliance**

The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

3. **Transfers**

The permit is nontransferable to any person except after notice to the Director. The Director may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Act.

4. **Monitoring Reports**

Monitoring results shall be reported at the intervals and in the form specified in Part III.C.5. **Discharge Monitoring Reports must be submitted even when no discharge occurs during the reporting period.**

5. **Compliance Schedule**

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date. Any reports of noncompliance shall include the

cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

6. **Twenty-four Hour Report**

Please be aware that the notifications can be sent by email to water-enforcement-report@adeq.state.ar.us or at 501-682-0624 for immediate reporting:

- A. The permittee shall report any noncompliance which may endanger health or the environment within 24 hours from the time the permittee becomes aware of the circumstances to the Enforcement Branch of the Office of Water Quality of DEQ. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain the following information:
1. A description of the noncompliance and its cause.
 2. The period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue.
 3. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.
- B. The following must be reported within 24 hours:
1. Any unanticipated bypass which exceeds any effluent limitation in the permit.
 2. Any upset which exceeds any effluent limitation in the permit.
 3. Violation of a maximum daily discharge limitation for any of the pollutants listed by the Director in Part I of the permit.
- C. The Director may waive the written report on a case-by-case basis if the notification has been received within 24 hours to the Enforcement Branch of the Office of Water Quality of the DEQ.

7. **Other Noncompliance**

The permittee shall report all instances of noncompliance not reported under Parts III.D.4, 5, and 6, at the time monitoring reports are submitted. The reports shall contain the information listed at Part III.D.6.

8. **Changes in Discharge of Toxic Substances for Industrial Dischargers including Existing Manufacturing, Commercial, Mining, and Silvicultural Dischargers**

The Director shall be notified as soon as the permittee knows or has reason to believe:

- A. That any activity has occurred or will occur which would result in the discharge on a routine or frequent basis of any toxic pollutant including those listed in 40 CFR 401.15 which is not limited in the permit, if that discharge will exceed the highest of the “notification levels” described in 40 CFR Part 122.42(a)(1).

- B. That any activity has occurred or will occur which would result in any discharge on a non-routine or infrequent basis of a toxic pollutant including those listed in 40 CFR 401.15 which is not limited in the permit, if that discharge will exceed the highest of the “notification levels” described in 40 CFR Part 122.42(a)(2).

9. **Duty to Provide Information**

The permittee shall furnish to the Director, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit. Information shall be submitted in the form, manner and time frame requested by the Director.

10. **Duty to Reapply**

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. The complete application shall be submitted at least 180 days before the expiration date of this permit. The Director may grant permission to submit an application less than 180 days in advance but no later than the permit expiration date. Continuation of expiring permits shall be implemented through procedures outlined by APC&EC Rule No. 6.

11. **Signatory Requirements**

All applications, reports, or information submitted to the Director shall be signed and certified as follows:

A. All **permit applications** shall be signed as follows:

1. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:
 - (a) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation.
 - (b) The manager of one or more manufacturing, production, or operation facilities, provided: the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

2. For a partnership or sole proprietorship: by a general partner or proprietor, respectively.
 3. For a municipality, State, Federal, or other public agency, by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes:
 - (a) The chief executive officer of the agency.
 - (b) A senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.
- B. All **reports** required by the permit and **other information** requested by the Director shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
1. The authorization is made in writing by a person described above.
 2. The authorization specified either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field, superintendent, or position of equivalent responsibility. (A duly authorized representative may thus be either a named individual or any individual occupying a named position).
 3. The written authorization is submitted to the Director.
- C. Certification. Any person signing a document under this section shall make the following certification:

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

12. Availability of Reports

Except for data determined to be confidential under 40 CFR Part 2 and APC&EC Rule No. 6, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Division of Environmental Quality. As required by the Regulations, the name and address of any permit applicant or permittee, permit applications, permits, and effluent data shall not be considered confidential.

13. Penalties for Falsification of Reports

The Arkansas Air and Water Pollution Control Act provides that any person who knowingly makes any false statement, representation, or certification in any application, record, report,

plan, or other document filed or required to be maintained under this permit shall be subject to civil penalties specified in Part III.A.2 and/or criminal penalties under the authority of the Arkansas Water and Air Pollution Control Act (Ark. Code Ann. § 8-4-101 et seq.).

14. **Other Information**

Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, it shall promptly submit such facts or information.

PART IV DEFINITIONS

All definitions contained in Section 502 of the Clean Water Act and 40 CFR 122.2 shall apply to this permit and are incorporated herein by reference. Additional definitions of words or phrases used in this permit are as follows:

1. **“7-Day average” (“average weekly”)** the highest allowable average of “daily discharges” over a calendar week, calculated as the sum of all “daily discharges” measured during a calendar week divided by the number of “daily discharges” measured during that week
2. **“Act”** the Clean Water Act, Public Law 95-217 (33.U.S.C. 1251 et seq.) as amended
3. **“Administrator”** the Administrator of the U.S. Environmental Protection Agency
4. **“APC&EC”** the Arkansas Pollution Control and Ecology Commission
5. **“Applicable effluent standards and limitations”** all State and Federal effluent standards and limitations to which a discharge is subject under the Act, including, but not limited to, effluent limitations, standards of performance, toxic effluent standards and prohibitions, and pretreatment standards
6. **“Applicable water quality standards”** all water quality standards to which a discharge is subject under the federal Clean Water Act and which has been (a) approved or permitted to remain in effect by the Administrator following submission to the Administrator pursuant to Section 303(a) of the Act, or (b) promulgated by the Director pursuant to Section 303(b) or 303(c) of the Act, and standards promulgated under (APC&EC) Rule No. 2, as amended
7. **“Best Management Practices (BMPs)”** activities, practices, maintenance procedures, and other management practices designed to prevent or reduce the pollution of waters of the State; includes treatment technologies, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw sewage; may include structural devices or nonstructural practices
8. **“Bypass”** the intentional diversion of waste streams from any portion of a treatment facility, as defined at 40 CFR 122.41(m)(1)(i)
9. **“Composite sample”** a mixture of grab samples collected at the same sampling point at different times, formed either by continuous sampling or by mixing a minimum of 4 effluent portions collected at equal time intervals (but not closer than one hour apart) during operational hours, within the 24-hour period, and combined proportional to flow or a sample collected at more frequent intervals proportional to flow over the 24-hour period
10. **“Daily Discharge”** the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling
 - A. **Mass Calculations:** for pollutants with limitations expressed in terms of mass, the “daily discharge” is calculated as the total mass of pollutant discharged over the sampling day
 - B. **Concentration Calculations:** for pollutants with limitations expressed in other units of measurement, the “daily discharge” is calculated as the average measurement of the pollutant over the day
11. **“Daily Maximum”** the highest allowable “daily discharge” during the calendar month
12. **“Director”** the Director of the Division of Environmental Quality
13. **“Dissolved oxygen limit”** shall be defined as follows:

- A. when limited in the permit as a minimum monthly average, shall mean the lowest acceptable monthly average value, determined by averaging all samples taken during the calendar month.
- B. when limited in the permit as an instantaneous minimum value, shall mean that no value measured during the reporting period may fall below the stated value
14. **“Division”** the Division of Environmental Quality (**DEQ**)
15. **“E. coli”** a sample consists of one effluent grab portion collected during a 24-hour period at peak loads; for *E. coli*, report the 7-Day Average as the geometric mean of all “daily discharges” within a calendar week and the Monthly Average as the geometric mean of all “daily discharges” within a calendar month, in colonies per 100 ml
16. **“Fecal Coliform Bacteria (FCB)”** a sample consists of one effluent grab portion collected during a 24-hour period at peak loads; for FCB, report the 7-Day Average as the geometric mean of all “daily discharges” within a calendar week and the Monthly Average as the geometric mean of all “daily discharges” within a calendar month, in colonies per 100 ml
17. **“Grab sample”** an individual sample collected in less than 15 minutes in conjunction with an instantaneous flow measurement
18. **“Industrial User”** a nondomestic discharger, as identified in 40 CFR Part 403, introducing pollutants to a publicly owned treatment works (POTW)
19. **“Instantaneous flow measurement”** the flow measured during the minimum time required for the flow-measuring device or method to produce a result in that instance; to the extent practical, instantaneous flow measurements coincide with the collection of any grab samples required for the same sampling period so that together the samples and flow are representative of the discharge during that sampling period
20. **“Instantaneous Maximum”** no value measured during the reporting period may fall above the stated value
21. **“Instantaneous Minimum”** no value measured during the reporting period may fall below the stated value
22. **“Monitoring and Reporting”** when a permit becomes effective, monitoring requirements are of the immediate period of the permit effective date; for monitoring requirements for an effluent characteristic of monthly or more frequently, the Discharge Monitoring Report (DMR) shall be submitted by the 25th of the month following the sampling; for monitoring requirements for an effluent characteristic of Quarterly, Semi-Annual, Annual, or Yearly, the DMR shall be submitted by the 25th of the month following the monitoring period end date
- A. **MONTHLY** a calendar month or any portion of a calendar month for monitoring requirement frequency of once/month or more frequently.
- B. **BI-MONTHLY** two (2) calendar months or any portion of 2 calendar months for monitoring requirement frequency of once/2 months or more frequently
- C. **QUARTERLY:**
1. a **fixed calendar quarter** or any part of the fixed calendar quarter for a non-seasonal effluent characteristic with a measurement frequency of once/quarter; fixed calendar quarters are January through March, April through June, July through September, and October through December
 2. a **fixed three month period** (or any part of the fixed three month period) of or dependent upon the seasons specified in the permit for a seasonal effluent characteristic with a monitoring requirement frequency of once/quarter that does not coincide with the fixed calendar quarter; seasonal calendar quarters are May through

July, August through October, November through January, and February through April

- D. **SEMI-ANNUAL** the fixed time periods January through June, and July through December (or any portion thereof) for an effluent characteristic with a measurement frequency of once/6 months or twice/year
- E. **ANNUAL or YEARLY** a fixed calendar year (January through December) or any portion of the fixed calendar year for an effluent characteristic or parameter with a measurement frequency of once/year
23. **“Monthly Average”** the highest allowable average of “daily discharges” over a calendar month, calculated as the sum of all “daily discharges” measured during a calendar month divided by the number of “daily discharges” measured during that month; for Fecal Coliform Bacteria (FCB) or *E. coli*, report the Monthly Average as the geometric mean of all “daily discharges” within a calendar month (see Part IV.15 and IV.16 above)
24. **“National Pollutant Discharge Elimination System”** the national program for issuing, modifying, revoking and reissuing, terminating, monitoring and enforcing permits, and imposing and enforcing pretreatment requirements under Sections 307, 402, 318, and 405 of the Clean Water Act
25. **“POTW”** Publicly Owned Treatment Works; a treatment works (see Part IV.29 below) which is owned by a state or municipality
26. **“Reduction of CBOD₅/BOD₅ and TSS Formula”** $[(\text{Influent} - \text{Effluent}) / \text{Influent}] \times 100$
27. **“Severe property damage”** substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass; does not include economic loss caused by delays in products
28. **“Sewage sludge”** the solids, residues, and precipitate separated from or created in sewage by the unit processes at a POTW; any wastes, including wastes from humans, households, commercial establishments, industries, and stormwater runoff that are discharged to or otherwise enter a POTW
29. **“Treatment works”** any devices and systems used in storage, treatment, recycling, and reclamation of municipal sewage and industrial wastes, of a liquid nature to implement section 201 of the Act, or necessary to recycle reuse water at the most economic cost over the estimated life of the works, including intercepting sewers, sewage collection systems, pumping, power and other equipment, and alterations thereof; elements essential to provide a reliable recycled supply such as standby treatment units and clear well facilities, and any works, including site acquisition of the land that will be an integral part of the treatment process or is used for ultimate disposal of residues resulting from such treatment
30. **Units of Measure:**
- “cfs”** cubic feet per second
 - “µg/l”** micrograms per liter or parts per billion (ppb)
 - “MGD”** million gallons per day
 - “mg/l”** milligrams per liter or parts per million (ppm)
 - “ppm”** parts per million
 - “s.u.”** standard units
31. **“Upset”** an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee; does not include noncompliance to the extent caused

by operational error, improperly designed treatment facilities, lack of preventive maintenance, or careless, or improper operations

32. **“Visible sheen”** the presence of a film or sheen upon or a discoloration of the surface of the discharge; a sheen can also be from a thin glistening layer of oil on the surface of the discharge
33. **“Weekday”** Monday – Friday.

Statement of Basis

This Statement of Basis is for information and justification of the permit requirements only. Please note that it is not enforceable. This permitting decision is for renewal of the discharge Permit Number AR0034037 with Arkansas Department of Energy and Environment – Division of Environmental Quality (DEQ) Arkansas Facility Identification Number (AFIN) 45-00023 to discharge to Waters of the State.

1. PERMITTING AUTHORITY

The issuing office is:

Division of Environmental Quality
5301 Northshore Drive
North Little Rock, Arkansas 72118-5317

2. APPLICANT

The applicant's mailing address is:

City of Yellville
P.O. Box 647
Yellville, AR 72687

The facility address is:

City of Yellville
1385 Marion County 6001
Yellville, AR 72687

3. PREPARED BY

The permit was prepared by:

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4. PERMIT ACTIVITY

Previous Permit Effective Date: March 1, 2010
Previous Permit Expiration Date: February 28, 2015

The permittee submitted a permit renewal application on July 21, 2014. The permit was placed on administrative hold due to pending mineral water quality criteria revisions and was

removed from hold on September 10, 2020. The permittee submitted an updated renewal application on November 5, 2020. The current discharge permit is being reissued for a 5-year term in accordance with regulations promulgated at 40 CFR Part 122.46(a).

DOCUMENT ABBREVIATIONS

In the document that follows, various abbreviations are used. They are as follows:

APC&EC - Arkansas Pollution Control and Ecology Commission

BAT - best available technology economically achievable

BCT - best conventional pollutant control technology

BMP - best management practice

BOD₅ - five-day biochemical oxygen demand

BPJ - best professional judgment

BPT - best practicable control technology currently available

CBOD₅ - carbonaceous biochemical oxygen demand

CD - critical dilution

CFR - Code of Federal Regulations

cfs - cubic feet per second

COD - chemical oxygen demand

COE - United States Corp of Engineers

CPP - continuing planning process

CWA - Clean Water Act

DMR - discharge monitoring report

DO - dissolved oxygen

ELG - effluent limitation guidelines

EPA - United States Environmental Protection Agency

ESA - Endangered Species Act

FCB - fecal coliform bacteria

gpm - gallons per minute

MGD - million gallons per day

MQL - minimum quantification level

NAICS - North American Industry Classification System

NH₃-N - ammonia nitrogen

NO₃ + NO₂-N - nitrate + nitrite nitrogen

NPDES - National Pollutant Discharge Elimination System

O&G - oil and grease

Rule 2 - APC&EC Rule No. 2

Rule 6 - APC&EC Rule No. 6

Rule 8 - APC&EC Rule No. 8

Rule 9 - APC&EC Rule No. 9

RP - reasonable potential

SIC - standard industrial classification

SSO - sanitary sewer overflow

TDS - total dissolved solids

TMDL - total maximum daily load

TP - total phosphorus
TRC - total residual chlorine
TSS - total suspended solids
UAA - use attainability analysis
USF&WS - United States Fish and Wildlife Service
USGS - United States Geological Survey
WET - whole effluent toxicity
WQMP - water quality management plan
WQS - Water Quality Standards
WWTP - wastewater treatment plant

Compliance and Enforcement History:

The compliance and enforcement history for this facility can be reviewed by using the following web link:

https://www.adeq.state.ar.us/downloads/WebDatabases/PermitsOnline/NPDES/PermitInformation/AR0034037_Compliance%20Review_20200702.pdf

5. SIGNIFICANT CHANGES FROM THE PREVIOUSLY ISSUED PERMIT

The permittee is responsible for carefully reading the permit in detail and becoming familiar with all of the changes therein:

1. The mailing address has been removed from the cover page.
2. A significant digit has been changed for TSS and Nitrate + Nitrite Nitrogen based on updated rounding procedure.
3. The effluent limit for DO for the months of May through October has been changed from 6.0 mg/l (Inst. Min.) to 6.2 mg/l (Inst. Min.). A three year schedule of compliance has been included in Part I.B of the permit and section 14 of this Statement of Basis.
4. Monitoring and reporting requirements for chloride, sulfate, and TDS have been included in the permit. See Section 12.A of this Statement of Basis for more information.
5. 7-Day Avg. effluent limit for NO₃ + NO₂-N has been changed from 15.0 mg/l to 10.0 mg/l. A three year schedule of compliance has been included in Part I.B of the permit. See Section 12.A and 14 of this Statement of Basis for more information.
6. Part II.1 of the permit now requires a Class II operator instead of Class III based on an updated wastewater class evaluation.
7. The Sanitary Sewer Overflows (SSOs) condition has been revised. See Part II.6 of the permit.
8. Part III.C.5 of the permit now requires that DMRs be submitted electronically via NetDMR.
9. Part III.D.14, Other Information, has been included in the permit.

6. RECEIVING STREAM SEGMENT AND DISCHARGE LOCATION

The outfall is located at the following coordinates based on the previous permit and confirmed with Google Earth using WGS84:

Latitude: 36° 13' 15" N; Longitude: 92° 39' 50" W

The receiving waters named:

Crooked Creek, thence to the White River in Segment 4I of the White River Basin. The receiving stream with USGS Hydrologic Unit Code (H.U.C.) of 11010003 and Reach #048 is a Water of the State classified for primary and secondary contact recreation, raw water source for domestic (public and private), industrial, and agricultural water supplies; propagation of desirable species of fish and other aquatic life; and other compatible uses.

The facility is discharging into a losing stream segment.¹

7. 303(d) LIST, TOTAL MAXIMUM DAILY LOADS, ENDANGERED SPECIES, AND ANTI-DEGRADATION CONSIDERATIONS

A. 303(d) List

The receiving stream is not listed on the 2018 303(d) list. Therefore, no additional permitting action is required at this time.

B. Applicable Total Maximum Daily Load (TMDL) Reports

There are no applicable TMDL reports for this facility. Therefore, no additional permitting action is required at this time.

C. Endangered Species

No comments on the application were received from the USF&WS. The draft permit and Statement of Basis were sent to the USF&WS for their review.

D. Anti-Degradation

The limitations and requirements set forth in this permit for discharge into waters of the State are consistent with the Anti-degradation Policy and all other applicable water quality standards found in APC&EC Rule No. 2.

8. OUTFALL, TREATMENT PROCESS DESCRIPTION, AND FACILITY CONSTRUCTION

The following is a description of the facility described in the application:

A. Design Flow: 0.75 MGD

¹ The entire surface flow in Crooked Creek is diverted underground at Yellville at river mile 23 during low-flow conditions, based on a USGS report entitled, "Streamflow Gain and Loss of Selected Streams in Northern Arkansas", 1987, Freiwald, David A., USGS Scientific Investigations Report No. 86-4185. Therefore, this stream segment is considered a losing stream based on Reg. 6.301(B), and the 7Q10 of Crooked Creek at Yellville is considered to be zero at this discharge location.

- B. Type of Treatment: screening, an extended aeration activated sludge system followed by clarification, UV disinfection, and post aeration
- C. Discharge Description: treated municipal wastewater
- D. Facility Status: This facility is classified as a minor municipal since the design flow of the facility listed above is less than 1.0 MGD.
- E. Facility Construction: This permit does not authorize or approve the construction or modification of any part of the treatment system or facilities. Approval for such construction must be by permit issued under Rule 6.202.

9. ACTIVITY

Under the Standard Industrial Classification (SIC) code of 4952 or North American Industry Classification System (NAICS) code of 221320, the applicant's activities are the operation of a sewage treatment plant.

10. INDUSTRIAL WASTEWATER CONTRIBUTIONS

Currently, it does not appear the facility receives process wastewater from any significant industrial users as defined by 40 CFR §403.3(v). In accordance with 40 CFR §403.5(a)(1) and (b), General and Specific Pretreatment Prohibitions and reporting requirements are deemed appropriate at this time.

11. SEWAGE SLUDGE PRACTICES

Sludge generated by this facility is disposed of at a permitted landfill. Any change to the sludge disposal method shall be in accordance with Part III.B.6 of the permit.

12. DEVELOPMENT AND BASIS FOR PERMIT CONDITIONS

The Division of Environmental Quality has determined to issue a permit for the discharge described in the application. Permit requirements are based on federal regulations (40 CFR Parts 122, 124, and Subchapter N), the National Pretreatment Regulation in 40 CFR Part 403 and regulations promulgated pursuant to the Arkansas Water and Air Pollution Control Act (Ark. Code Ann. 8-4-101 et seq.). All of the information contained in the application, including all of the submitted effluent testing data, was reviewed to determine the need for effluent limits and other permit requirements.

The following is an explanation of the derivation of the conditions of the permit and the reasons for them or, in the case of notices of intent to deny or terminate, reasons suggesting the decisions as required under 40 CFR Part 124.7.

Technology-Based Versus Water Quality-Based Effluent Limitations and Conditions

Following regulations promulgated at 40 CFR Part 122.44, the permit limits are based on either technology-based effluent limits pursuant to 40 CFR Part 122.44(a) or on State water

quality standards and requirements pursuant to 40 CFR Part 122.44(d), whichever are more stringent as follows:

Parameter	Water Quality-Based		Technology-Based/BPJ		Previous Permit		Permit Limit	
	Monthly Avg. mg/l	7-day Avg. mg/l	Monthly Avg. mg/l	7-day Avg. mg/l	Monthly Avg. mg/l	7-day Avg. mg/l	Monthly Avg. mg/l	7-day Avg. mg/l
CBOD ₅	> 10*	N/A	10	15	10	15	10	15
TSS	N/A	N/A	15.0	23	15	23	15.0	22.5
NH ₃ -N								
(April)	3.9	3.9	N/A	N/A	3.9	3.9	3.9	3.9
(May – October)	1.0	1.5	N/A	N/A	1.0	1.5	1.0	1.5
(November – March)	5.0	7.5	N/A	N/A	5.0	7.5	5.0	7.5
DO								
INTERIM:								
(year - around)	6.0 (Inst. Min.)		N/A		6.0 (Inst. Min.)		6.0 (Inst. Min.)	
FINAL:								
(May – October)	6.2 (Inst. Min.)		N/A		6.0 (Inst. Min.)		6.2 (Inst. Min.)	
(November – March)	6.0 (Inst. Min.)		N/A		6.0 (Inst. Min.)		6.0 (Inst. Min.)	
FCB (col/100 ml)								
(May – September)	200	400	200	400	200	400	200	400
(October – April)	1000	2000	200	400	200	400	200	400
NO ₃ + NO ₂ - N								
INTERIM:	N/A	N/A	10.0	10.0	10.0	15.0	10.0	15.0
FINAL:	N/A	N/A	10.0	10.0	10.0	15.0	10.0	10.0
Cl	N/A	N/A	Report	Report	N/A	N/A	Report	Report
SO ₄	N/A	N/A	Report	Report	N/A	N/A	Report	Report
TDS	N/A	N/A	Report	Report	N/A	N/A	Report	Report
pH	6.0-9.0 s.u.		6.0-9.0 s.u.		6.0-9.0 s.u.		6.0-9.0 s.u.	

* The technology limit was modeled to ensure compliance with water quality standards for DO.

A. Justification for Limitations and Conditions of the Permit

Parameter	Water Quality or Technology	Justification
CBOD ₅	Technology	Rule 6.301(C)(2)(a), Water Quality Model dated December 21, 2020, 40 CFR 122.44(l), and previous permit

Parameter	Water Quality or Technology	Justification
TSS	Technology	Rule 6.301(C)(2)(b), 40 CFR 122.44(l), and previous permit
NH ₃ -N	Water Quality	Rule 2.512, Water Quality Model dated December 21, 2020, CWA § 402(o), and previous permit
DO	Water Quality	Rule 2.505, Water Quality Model dated December 21, 2020,
FCB	Technology	Rule 6.301(C)(2)(d), 40 CFR 122.44(l), and previous permit
NO ₃ + NO ₂ -N*	Technology	Rule 6.301(C)(2)(e), 40 CFR 122.44(l), and previous permit
Cl**	Technology	CPP
SO ₄ **	Technology	CPP
TDS**	Technology	CPP
pH	Water Quality	Rule 6.301(C)(2)(c), Rule 2.504, CWA § 402(o), and previous permit

* **Nitrate plus Nitrite Nitrogen (NO₃ + NO₂-N)**

The facility is discharging into a losing stream segment and is therefore subject to Rule 6.301(C). The effluent limitation for Nitrate + Nitrite Nitrogen has been changed from 10.0/15.0 mg/l (Monthly Avg./7-Day Avg.) to 10.0/10.0 mg/l (Monthly Avg./7-Day Avg.). The change is based on Rule 6.301(C)(2)(e), which states “Nitrate plus Nitrite Nitrogen levels shall not exceed ten (10) mg/l.” There is no EPA approved testing method that is able to measure instantaneous Nitrate plus Nitrite Nitrogen readily available to this time. Therefore, compliance with the requirement must be demonstrated by taking one grab sample per test.

** **Cl, SO₄, and TDS**

In a letter dated December 12, 2017, EPA approved the site specific criteria changes for chloride, sulfate and total dissolved solids (TDS) in the upstream reach and TDS in the downstream of the Crooked Creek. In accordance with the CPP, monitoring and reporting requirements for Cl, SO₄, and TDS have been included in the permit. TDS data submitted with the renewal application did not show reasonable potential to exceed the water quality criteria for TDS. Therefore, monitoring and reporting requirements have been included. The data will be evaluated at the time of the next permit renewal to determine if additional permitting action is necessary at that time. The reasonable potential evaluation for TDS can be found below:

https://www.adeq.state.ar.us/downloads/WebDatabases/PermitsOnline/NPDES/PermitInformation/AR0034037_TDS%20RP%20evaluaton_20201218.pdf

B. Anti-backsliding

The permit is consistent with the requirements to meet Anti-backsliding provisions of the Clean Water Act (CWA), Section 402(o) [40 CFR 122.44(l)]. The final effluent limitations for reissuance permits must be as stringent as those in the previous permit, unless the less stringent limitations can be justified using exceptions listed in CWA 402(o)(2), CWA 303(d)(4), or 40 CFR 122.44(l)(2)(i).

The permit meets or exceeds the requirements of the previous permit.

C. Limits Calculations

1. Mass Limits:

In accordance with 40 CFR 122.45(f)(1), all pollutants limited in permits shall have limitations expressed in terms of mass if feasible. 40 CFR 122.45(f)(2) allows for pollutants which are limited in terms of mass to also be limited in terms of other units of measurement.

The calculation of the loadings (lbs per day) uses a design flow of 0.75 MGD and the following equation:

$$\text{Mass (lbs/day)} = \text{Concentration (mg/l)} \times \text{Flow (MGD)} \times 8.34$$

2. 7-Day Average Limits:

The 7-day average limit for CBOD₅ is based on Rule 6.301(C)(2)(a).

The 7-day average limits for NH₃-N (May through March) as well as TSS is based on Section 5.4.2 of the Technical Support Document for Water Quality-based Toxics Control:

$$\text{7-day average limits} = \text{monthly average limits} \times 1.5$$

The 7-day average NH₃-N limit for the month of April is based on the requirements of Rule 2.512.

The 7-day average limit for FCB is based on Rule 6.301(C)(2)(e).

D. 208 Plan (Water Quality Management Plan)

The 208 Plan, developed by the DEQ under provisions of Section 208 of the federal Clean Water Act, is a comprehensive program to work toward achieving federal water goals in Arkansas. The initial 208 Plan, adopted in 1979, provides for annual updates, but can be revised more often if necessary.

The 208 Plan has been updated to revise the instantaneous minimum DO limit from 6.0 mg/L to 6.2 mg/L during May-October.

13. SAMPLE TYPE AND FREQUENCY

Regulations require permits to establish monitoring requirements to yield data representative of the monitored activity [40 CFR Part 122.48(b)] and to ensure compliance with permit limitations [40 CFR Part 122.44(i)(1)].

Requirements for sample type for CBOD₅, TSS, and NH₃-N have been changed to composite type instead of 3-hr composite to allow flexibility when taking the required samples. See composite sample as defined in Part IV.9 of the permit. Requirements for sample type and sampling frequency for Cl, SO₄, and TDS have been based in accordance with the CPP. Requirements for sample type and sampling frequency for other parameters have been based on the previous discharge permit.

Parameter	Previous Permit		Final Permit	
	Frequency of Sample	Sample Type	Frequency of Sample	Sample Type
Flow	once/day	totalizing meter	once/day	totalizing meter
CBOD ₅	two/month	3-hr composite	two/month	composite
TSS	two/month	3-hr composite	two/month	composite
NH ₃ -N	three/month	3-hr composite	three/month	composite
DO	three/month	grab	three/month	grab
FCB	three/month	grab	three/month	grab
NO ₃ + NO ₂ - N	two/month	grab	two/month	grab
Cl	N/A	N/A	once/month	grab
SO ₄	N/A	N/A	once/month	grab
TDS	N/A	N/A	once/month	grab
pH	three/month	grab	three/month	grab

14. PERMIT COMPLIANCE SCHEDULE

A three year Schedule of Compliance has been included in this permit for Dissolved Oxygen and Nitrate + Nitrite-Nitrogen.

15. MONITORING AND REPORTING

The applicant is at all times required to monitor the discharge on a regular basis and report the results monthly. The monitoring results will be available to the public.

16. SOURCES

The following sources were used to draft the permit:

- A. Application No. AR0034037 received July 21, 2014, with an updated renewal application received on November 5, 2020.

- B. Arkansas Water Quality Management Plan (WQMP).
- C. APC&EC Rule No. 2.
- D. APC&EC Rule No. 3.
- E. APC&EC Rule No. 6, which incorporates by reference certain federal regulations included in Title 40 of the Code of Federal Regulations at Rule 6.104.
- F. 40 CFR Parts 122, 125, 133 and 403.
- G. Discharge permit file AR0034037.
- H. Discharge Monitoring Reports (DMRs).
- I. USGS StreamStats report for USGS station 07055608.
- J. “2018 Integrated Water Quality Monitoring and Assessment Report,” DEQ.
- K. “2018 List of Impaired Waterbodies (303(d) List),” DEQ, May 2020.
- L. Continuing Planning Process (CPP).
- M. Technical Support Document for Water Quality-based Toxic Control.
- N. [EPA approval of Crooked Creek Site Specific WQS for Minerals dated December 12, 2017.](#)
- O. [Inspection Report dated March 27, 2020.](#)
- P. [Compliance Review Memo dated July 2, 2020.](#)
- Q. [Planning Review Memo dated July 6, 2020.](#)
- R. [Planning Review Memo dated July 8, 2020.](#)
- S. [Wastewater Class License evaluation dated November 5, 2020.](#)
- T. [Water Quality Model dated December 21, 2020.](#)
- U. [TDS RP evaluation dated December 18, 2020.](#)
- V. [No Comment Letter from Arkansas Department of Health dated March 9, 2021.](#)
- W. [Final Compliance Review Memo dated March 17, 2021.](#)

17. PUBLIC NOTICE

The public notice of the draft permit was published for public comment on February 18, 2021. The last day of the comment period was March 22, 2021. No public comments were received on the draft permit.

Copies of the draft permit and public notice were sent via email to the Corps of Engineers, the Regional Director of the U.S. Fish and Wildlife Service, the Department of Parks, Heritage, and Tourism, the EPA, and the Arkansas Department of Health.

18. PERMIT FEE

In accordance with Rule No. 9.403(C)(1), the annual fee for the permit is calculated from the Design Flow (Q, in MGD) as follows:

$$\text{Fee} = \$200 + (5,600 \times Q) = \$200 + (5,600 \times 0.75) = \$4,400$$

19. POINT OF CONTACT

For additional information, contact:

Kai Imamura, E.I.
Permits Branch, Office of Water Quality
Division of Environmental Quality
5301 Northshore Drive
North Little Rock, Arkansas 72118-5317
Telephone: (501) 682-0045

APPENDIX B

Discharge Monitoring Reports

(Jan 2022 – Feb 2023)

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Environmental Services Co, Inc. 13715 W Markham St, Little Rock, AR 72211 (501)221-2565

Attachments

No attachments.

Report Last Saved By

Yellville, City of

User: WATERCLERK1
Name: Shelia Batterton
E-Mail: sbatterton@cityofyellville.org
Date/Time: 2022-02-25 11:33 (Time Zone: -06:00)

Report Last Signed By

User: WATERCLERK1
Name: Shelia Batterton
E-Mail: sbatterton@cityofyellville.org
Date/Time: 2022-02-25 11:34 (Time Zone: -06:00)

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Environmental Services Co, Inc. 13715 W Markham St, Little Rock, AR 72211 (501)221-2565

Attachments

No attachments.

Report Last Saved By

Yellville, City of

User: WATERCLERK1
Name: Shelia Batterton
E-Mail: sbatterton@cityofyellville.org
Date/Time: 2022-03-24 13:59 (Time Zone: -05:00)

Report Last Signed By

User: WATERCLERK1
Name: Shelia Batterton
E-Mail: sbatterton@cityofyellville.org
Date/Time: 2022-03-24 14:00 (Time Zone: -05:00)

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Environmental Services Co, Inc. 13715 W Markham St, Little Rock, AR 72211 (501)221-2565

Attachments

No attachments.

Report Last Saved By

Yellville, City of

User: WATERCLERK1
Name: Shelia Batterton
E-Mail: sbatterton@cityofyellville.org
Date/Time: 2022-04-22 14:38 (Time Zone: -05:00)

Report Last Signed By

User: WATERCLERK1
Name: Shelia Batterton
E-Mail: sbatterton@cityofyellville.org
Date/Time: 2022-04-22 14:39 (Time Zone: -05:00)

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

Yellville, City of

User: WATERCLERK1
Name: Shelia Batterton
E-Mail: sbatterton@cityofyellville.org
Date/Time: 2022-05-25 10:49 (Time Zone: -05:00)

Report Last Signed By

User: WATERCLERK1
Name: Shelia Batterton
E-Mail: sbatterton@cityofyellville.org
Date/Time: 2022-05-25 10:49 (Time Zone: -05:00)

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

Yellville, City of

User: WATERCLERK1
Name: Shelia Batterton
E-Mail: sbatterton@cityofyellville.org
Date/Time: 2022-06-08 09:31 (Time Zone: -05:00)

Report Last Signed By

User: WATERCLERK1
Name: Shelia Batterton
E-Mail: sbatterton@cityofyellville.org
Date/Time: 2022-06-08 09:31 (Time Zone: -05:00)

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

Yellville, City of

User: WATERCLERK1
Name: Shelia Batterton
E-Mail: sbatterton@cityofyellville.org
Date/Time: 2022-07-14 10:01 (Time Zone: -05:00)

Report Last Signed By

User: WATERCLERK1
Name: Shelia Batterton
E-Mail: sbatterton@cityofyellville.org
Date/Time: 2022-07-14 10:02 (Time Zone: -05:00)

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

Parameter		Monitoring Location	Field	Type	Description	Acknowledge
Code	Name					
00630	Nitrite + Nitrate total [as N]	1 - Effluent Gross	Quality or Concentration Sample Value 2	Soft	The provided sample value is outside the permit limit. Please verify that the value you have provided is correct.	Yes

Comments**Attachments**

Name	Type	Size
NonComplianceLetterJuly2022.pdf	pdf	121686.0

Report Last Saved By**Yellville, City of**

User: WATERCLERK1
 Name: Shelia Batterton
 E-Mail: sbatterton@cityofyellville.org
 Date/Time: 2022-08-16 09:57 (Time Zone: -05:00)

Report Last Signed By

User: WATERCLERK1
 Name: Shelia Batterton
 E-Mail: sbatterton@cityofyellville.org
 Date/Time: 2022-08-16 09:58 (Time Zone: -05:00)

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

Yellville, City of

User: WATERCLERK1
Name: Shelia Batterton
E-Mail: sbatterton@cityofyellville.org
Date/Time: 2022-09-15 10:35 (Time Zone: -05:00)

Report Last Signed By

User: WATERCLERK1
Name: Shelia Batterton
E-Mail: sbatterton@cityofyellville.org
Date/Time: 2022-09-15 10:35 (Time Zone: -05:00)

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

Yellville, City of

User: WATERCLERK1
Name: Shelia Batterton
E-Mail: sbatterton@cityofyellville.org
Date/Time: 2022-10-19 13:50 (Time Zone: -05:00)

Report Last Signed By

User: WATERCLERK1
Name: Shelia Batterton
E-Mail: sbatterton@cityofyellville.org
Date/Time: 2022-10-19 13:52 (Time Zone: -05:00)

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

Parameter		Monitoring Location	Field	Type	Description	Acknowledge
Code	Name					
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	Quality or Concentration Sample Value 3	Soft	The provided sample value is outside the permit limit. Please verify that the value you have provided is correct.	Yes
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	Quality or Concentration Sample Value 2	Soft	The provided sample value is outside the permit limit. Please verify that the value you have provided is correct.	Yes
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	Quantity or Loading Sample Value 1	Soft	The provided sample value is outside the permit limit. Please verify that the value you have provided is correct.	Yes

Comments**Attachments**

Name	Type	Size
YellvilleNonComplianceLetterOct2022.pdf	pdf	151884.0

Report Last Saved By**Yellville, City of**

User: WATERCLERK1
 Name: Shelia Batterton
 E-Mail: sbatterton@cityofyellville.org
 Date/Time: 2022-11-18 13:59 (Time Zone: -06:00)

Report Last Signed By

User: WATERCLERK1
 Name: Shelia Batterton
 E-Mail: sbatterton@cityofyellville.org
 Date/Time: 2022-11-18 14:00 (Time Zone: -06:00)

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

Yellville, City of

User: WATERCLERK1
Name: Shelia Batterton
E-Mail: sbatterton@cityofyellville.org
Date/Time: 2022-12-15 09:04 (Time Zone: -06:00)

Report Last Signed By

User: WATERCLERK1
Name: Shelia Batterton
E-Mail: sbatterton@cityofyellville.org
Date/Time: 2022-12-15 09:04 (Time Zone: -06:00)

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

Yellville, City of

User: WATERCLERK1
Name: Shelia Batterton
E-Mail: sbatterton@cityofyellville.org
Date/Time: 2023-01-19 13:36 (Time Zone: -06:00)

Report Last Signed By

User: WATERCLERK1
Name: Shelia Batterton
E-Mail: sbatterton@cityofyellville.org
Date/Time: 2023-01-19 13:37 (Time Zone: -06:00)

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

Yellville, City of

User: WATERCLERK1
Name: Shelia Batterton
E-Mail: sbatterton@cityofyellville.org
Date/Time: 2023-02-14 09:27 (Time Zone: -06:00)

Report Last Signed By

User: WATERCLERK1
Name: Shelia Batterton
E-Mail: sbatterton@cityofyellville.org
Date/Time: 2023-02-14 09:28 (Time Zone: -06:00)

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

Yellville, City of

User: WATERCLERK1
Name: Shelia Batterton
E-Mail: sbatterton@cityofyellville.org
Date/Time: 2023-03-23 12:50 (Time Zone: -05:00)

Report Last Signed By

User: WATERCLERK1
Name: Shelia Batterton
E-Mail: sbatterton@cityofyellville.org
Date/Time: 2023-03-23 12:50 (Time Zone: -05:00)

APPENDIX C

Non-Compliance Letter

CITY OF YELLVILLE
WATER AND SEWER DEPARTMENT
P.O. BOX 647
YELLVILLE, AR 72687
(870) 449-5210

August 4, 2022

Arkansas Department of Environmental Quality
Enforcement Section/ Water Division
5301 Northshore Drive
North Little Rock, AR 72118

RE: Arkansas NPDES Permit Number AR 0034037

Dear Ms. Harbin,

This letter is to inform you of the City of Yellville's non-compliance with effluent limitations for the month of July 2022.

1. Description of Violations:

- a. NO3+NO2-N, NPDES AVG 10.0, REPORTED 12.30.

2. Reason for Violations:

- a. The blowers were not staging on as programmed during the high heat period resulting in a blower coming on and staying on for an extended period. This caused our Aeration Basin to not de-nitrify.

3. Duration of the Violation:

- a. The high heat lasted approximately 10 days. After that, the blowers were coming on and staging up correctly.

4. Corrective Action Being Taken to Eliminate Violations:

- a. There is thermal protection for the blowers, however, if we disable it, it may prove to be detrimental to the safe operation of the blowers. We are looking into the possibility of providing temporary shade for the blowers.

Thank you for your time and considerations. If you should have any questions, please call my office at (870) 449-5210.

Sincerely,

Shawn Lane, Mayor
City of Yellville

APPENDIX D
Progress Report No.1



Shawn L. Lane
Mayor

CITY OF YELVILLE

P.O. Box 647
Yellville, AR 72687
(870) 449-6581 Office
(870) 449-4142 Fax



Melissa Dorsey
Clerk/Treasurer

April 19, 2022

Arkansas Department of Environmental Quality
5301 Northshore Dr.
North Little Rock, AR 72118

RE: City of Yellville water enforcement report

To whom it may concern,

As per regulations, the City of Yellville has completed a progress report towards the compliance of the new permit issued on March 29, 2021. Please accept this letter as the progress report. Included in this letter is documentation demonstrating the compliance.

The City of Yellville is currently in compliance with the new permit limits of Dissolved Oxygen and Nitrate + Nitrite Nitrogen. In June of 2021, we began the process of repairing numerous air leaks in the air line feeding the diffusers in the aeration basin. After the air leaks had been repaired, it was noticed that the nitrate levels were starting to rise, and we were in non-compliance with nitrate + nitrite in the effluent. We feel the levels started to rise because after the repair of the air leaks, the blowers were not staying off long enough to cause the aeration basin to go anoxic and allow the basin to de-nitrify. The process of fine tuning the blower program lasted a couple of months and since October of 2021, we have been in compliance with the nitrate + nitrite limitations.

At this time, we feel that this report demonstrates that the plant is in compliance with the new permit levels. If there are any further questions, please feel free to contact my office at 870-449-5210.

Documentation included with this report are the following lab reports:

04082021esc, 04152021esc, 05272021esc, 06032021esc, 06102021esc, 07082021esc, 07152021esc, 08052021esc, 08122021, 09022021esc, 09092021esc, 10072021esc, 10142021esc, 11042021esc, 11112021esc, 12022021esc, 12102021esc, 01052022esc, 01122022esc, 02162022esc, 02222022esc, 03032022esc, and 03092022esc.

Sincerely

Shawn L. Lane
Mayor
City of Yellville

Environmental Services Company, Inc.

Corporate Office
 13715 West Markham
 Little Rock, AR 72211
 Tel. (501)221-2565 Fax (501)221-1341

Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2104010181
 Customer Name : YELLVILLE WASTEWATER
 Customer/Permit No. : 3770 / ar0034037 001a
 Report Date : 04/27/21

Sample Date : 04/08/21
 Sample Time : 1128
 Sample Type : GRAB WWATER
 Sample From : FINAL EFFLUENT

Collected By: SO
 Delivery By : SO
 Work Order :
 Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>					<u>Parameter</u>	<u>% RPD</u>
04/16	1002	BXW	Chloride (as Cl)	39.9 mg/L		SM 2011 4500 Cl C	0.00	100.0
04/24	1340	KNM	Solids, Total Dissolved	304.0 mg/L		SM 2011 2540 C	19.88	N/A *
04/14	1025	AKA	Sulfate (as SO4)	< 1.000 mg/L		EPA 375.4	0.00	N/A *
04/08	1612	BXW	Fecal Coliform	> 2419.6 /100ml	(b)	06/2012 Colilert18	0.00	N/A *
04/12	0750	KNM	Nitrate + Nitrite	0.06 mg/L		HACH 10206	2.19	94.1 *

* QA data shown is from a different sample or standard on the same date.
 (b) Exceeds Permit Limits for Maximum Concentration

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature _____


 Environmental Services Co., Inc.

Environmental Services Company, Inc.
 Northwest Arkansas
 1107 Century Street
 Springdale, Arkansas 72762
 website: www.esclabs.com



Corporate Office, Little Rock, Arkansas
 501-221-2565
 Carlsbad, New Mexico
 575-887-1ESC

Phone: 479-750-1170 Fax: 479-750-1172

Client Information				Project Information						Requested Parameters				
Client:		Yellville WW		Permit/Project #:		AR0034037				Chloride (7), Sulfate (36), TDS (27) Fecal Coliform (43.IF) NO3+NO2 (91)				
Address:		PO Box 647 Yellville Ar 72687		Purchase Order #:										
Phone:		(870)449-5210		Sampler Name(s):		STUART OXFORD								
Fax:		(870) 449-4142		and Signature(s):		<i>Stuart Oxford</i>								
Contact:		Mr. Stuart Oxford		ESC Client Number:		3770								
Sample Identification		Sample Collection				Sample Containers								
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#					
Final Effluent	2104010181	4/8/21	1129	Grab	Wwater	Plastic	1 Liter	Cool ≤6°C	1	X				
	I	I	I	Grab	Wwater	Plastic	100 mls	Cool ≤6°C	1		X			
				Grab	Wwater	Plastic	8 oz	H2SO4	1			X		
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:		Used?	Intact?			
<i>Stuart Oxford</i> STUART OXFORD		4/8/21	11:31 AM	<i>William Willoughby</i> William Willoughby		4/8/21	1131	Regular <input checked="" type="checkbox"/> Special <input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>			
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Turnaround:		Regular	Special			
<i>William Willoughby</i> William Willoughby		4/8/21	1610	<i>William Willoughby</i> William Willoughby		4/8/21	1610	Were samples properly preserved:		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			
Comments:		FLOW DATA		Field Test		Time	Analyst	Result	Result	Units				
		Analyst:		pH:										
		Time:		DO:										
per Stuart Oxford, no pt1 & DO recorded w/GW		Reading:		Temp:										
		Units:		Fecolst		1612	BXLJ							
Cool all samples to 6 degrees C.		Chlorinated?		No		This Document is Page		1 of 1						

BXW

Environmental Services Company, Inc.

Corporate Office
 13715 West Markham
 Little Rock, AR 72211
 Tel. (501)221-2565 Fax (501)221-1341

Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2105010331
 Customer Name : YELLVILLE WASTEWATER
 Customer/Permit No. : 3770 / ar0034037 001a
 Report Date : 06/04/21

Sample Date : 05/27/21
 Sample Time : 1058
 Sample Type : GRAB WWATER
 Sample From : FINAL EFFLUENT

Collected By: HMK
 Delivery By : HMK
 Work Order :
 Purchase Order :

Laboratory Analysis

Analysis			Laboratory Analysis				Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision	Accuracy
								% RPD	% Recovery
06/02	1130	BXW	Chloride (as Cl)	20.0 mg/L		60.85 #/day	SM 2011 4500 Cl C	0.00	100.0
05/27	1058	HMK	Dissolved Oxygen	8.52 mg/L		25.92 #/day	HACH 10360 R1.2	1.63	N/A
05/27	1058	HMK	pH	7.8 S.U.			SM 2011 4500-H+B	1.27	N/A
06/01	1518	EJD	Solids, Total Dissolved	344.0 mg/L		1046.59 #/day	SM 2011 2540 C	7.85	N/A
06/01	0815	EJD	Sulfate (as SO4)	< 1.000 mg/L		3.04 #/day	EPA 375.4	0.00	N/A
05/27	1058	HMK	Temperature	21.80 °C			SM 2000 2550 B	2.27	N/A
05/27	1540	BXW	Fecal Coliform	6.3 /100ml			06/2012 Colilert18	0.00	N/A *
06/01	1245	NTR	Nitrate + Nitrite	2.22 mg/L		6.75 #/day	HACH 10206	2.19	101.2
			Flow	0.365090 MGD					

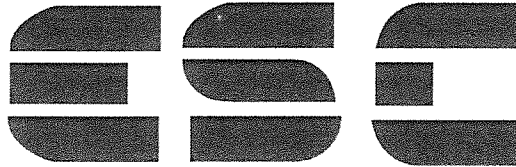
* QA data shown is from a different sample or standard on the same date.

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature *Krist Mullis*
 Environmental Services Co., Inc.

NR

Environmental Services Company, Inc.
 Northwest Arkansas
 1107 Century Street
 Springdale, Arkansas 72762
 website: www.esclabs.com



Corporate Office, Little Rock, Arkansas
 501-221-2565
 Carlsbad, New Mexico
 575-887-1ESC

Phone: 479-750-1170 Fax: 479-750-1172

CHAIN OF CUSTODY

Client Information				Project Information							Requested Parameters											
Client:	Yellville WW			Permit/Project #:	AR0034037							Chloride (7), Sulfate (36), TDS (27) Fecal Coliform (43.IF) NO3+NO2 (91)										
Address:	PO Box 647 Yellville Ar 72687			Purchase Order #:																		
Phone:	(870)449-5210			Sampler Name(s):	<i>Hayden Kelly</i>																	
Fax:	(870) 449-4142			and Signature(s):	<i>[Signature]</i>																	
Contact:	Mr. Stuart Oxford																					
ESC Client Number:	3770																					
Sample Identification			Sample Collection				Sample Containers															
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#													
Final Effluent	<i>25-2002105010331</i>	<i>5/27/21</i>	<i>1058</i>	Grab	Wwater	Plastic	1 Liter	Cool ≤6°C	1	X												
	<i>5/14/21</i>	<i>↓</i>	<i>↓</i>	Grab	Wwater	Plastic	100 mls	Cool ≤6°C	1		X											
	<i>+</i>	<i>↓</i>	<i>↓</i>	Grab	Wwater	Plastic	8 oz	H2SO4	1			X										
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:														
								Used? <input checked="" type="checkbox"/> Intact? <input type="checkbox"/>														
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Turnaround:														
								Regular <input checked="" type="checkbox"/> Special <input type="checkbox"/>														
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Were samples properly preserved:														
<i>Hayden Kelly</i>		<i>5/27/21</i>	<i>1456</i>	<i>[Signature]</i>		<i>5/27/21</i>	<i>1456</i>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>														
Comments: Per Stewart Oxford, record fecal temperatures below				FLOW DATA		Field Test		Time	Analyst	Result	Result	Units										
Picked up	Temp °C	Time	Analyst	Analyst:	pH:	DO:																
	<i>↓</i>			<i>HMK</i>	<i>6.58</i>	<i>↓</i>		<i>HMK</i>	<i>7.80</i>	<i>7.94</i>												
Received by Lab				Time:	Temp:			<i>↓</i>	<i>8.52</i>	<i>8.66</i>												
				Reading:				<i>21.8</i>	<i>22.3</i>													
				Units:				<i>MGT</i>	<i>Fecal</i>	<i>1540</i>	<i>BXL</i>											
Cool all samples to 6 degrees C.							Chlorinated? No			This Document is Page <i>6 of 6</i>												

Environmental Services Company, Inc.

Corporate Office
 13715 West Markham
 Little Rock, AR 72211
 Tel. (501)221-2565 Fax (501)221-1341

Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2106010088
 Customer Name : YELLVILLE WASTEWATER
 Customer/Permit No. : 3770 / ar0034037 001a
 Report Date : 06/11/21

Sample Date : 06/03/21
 Sample Time : 1125
 Sample Type : GRAB WWATER
 Sample From : FINAL EFFLUENT

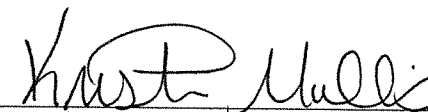
Collected By: WGW
 Delivery By : WGW
 Work Order :
 Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>		
Analysis							Precision	Accuracy	
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>% RPD</u>	<u>% Recovery</u>
06/08	1303	BXW	Chloride (as Cl)	9.9 mg/L		41.66 #/day	SM 2011 4500 Cl C	0.00	100.0 *
06/03	1130	WGW	Dissolved Oxygen	13.79 mg/L		58.03 #/day	HACH 10360 R1.2	0.00	N/A *
06/03	1130	WGW	pH	7.5 S.U.			SM 2011 4500-H+B	0.00	N/A *
06/03	1130	WGW	Temperature	20.20 °C			SM 2000 2550 B	0.00	N/A *
06/03	1651	BXW	Fecal Coliform	7.3 /100ml			06/2012 Colilert18	0.00	N/A *
06/07	0928	KNM	Nitrate + Nitrite	3.71 mg/L		15.61 #/day	HACH 10206	0.00	90.1 *
			Flow	0.505000 MGD					

* QA data shown is from a different sample or standard on the same date.

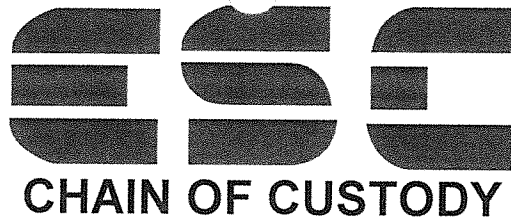
All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature



Environmental Services Co., Inc.

Environmental Services Company, Inc.
 Northwest Arkansas
 1107 Century Street
 Springdale, Arkansas 72762
 website: www.esclabs.com



Corporate Office, Little Rock, Arkansas
 501-221-2565
 Carlsbad, New Mexico
 575-887-1ESC

Phone: 479-750-1170 Fax: 479-750-1172

Client Information				Project Information						Requested Parameters										
Client:	Yellville WW			Permit/Project #:	AR0034037						KMM Chloride (7), Sulfate (36), IDS (27) Fecal Coliform (43.IF) NO3+NO2 (91)									
Address:	PO Box 647 Yellville Ar 72687			Purchase Order #:																
Phone:	(870)449-5210			Sampler Name(s):	William Willoughby															
Fax:	(870) 449-4142			and Signature(s):	<i>William Willoughby</i>															
Contact:	Mr. Stuart Oxford																			
ESC Client Number:	3770																			
Sample Identification		Sample Collection				Sample Containers														
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#	Chloride (7)	Sulfate (36)	IDS (27)	Fecal Coliform (43.IF)	NO3+NO2 (91)						
Final Effluent	2106010088	6/3/21	1125	Grab	Wwater	Plastic	8oz + Liter	Cool ≤6°C	1	X										
	↓	↓	↓	Grab	Wwater	Plastic	100 mls	Cool ≤6°C	1		X									
				Grab	Wwater	Plastic	8 oz	H2SO4	1				X							
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:		Used?	<input checked="" type="checkbox"/>	In tact?	<input type="checkbox"/>							
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Turnaround:		Regular	<input checked="" type="checkbox"/>	Special	<input type="checkbox"/>							
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Were samples properly preserved:		Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>							
Comments: Per Stewart Oxford, record fecal temperatures below/				FLOW DATA		Field Test		Time	Analyst	Result	Result	Units								
Picked up	Temp °C	Time	Analyst	Analyst:	WGV	pH:	1130	WGV	7.5	7.5										
Received by Lab				Time:	1130	DO:	1130	WGV	13.74	13.74										
Bottle preservative was acidic, not tested - KMM 4/14/21				Reading:	0.506	Temp:	1130	WGV	20.2	20.2	°C									
				Units:	ML-B	Chlorinated? No		This Document is Page 1 of 1												

BXU

Environmental Services Company, Inc.

Corporate Office
 13715 West Markham
 Little Rock, AR 72211
 Tel. (501)221-2565 Fax (501)221-1341

Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2106010192
 Customer Name : YELLVILLE WASTEWATER
 Customer/Permit No. : 3770 / ar0034037 001a
 Report Date : 06/16/21

Sample Date : 06/10/21
 Sample Time : 1155
 Sample Type : GRAB WWATER
 Sample From : FINAL EFFLUENT

Collected By: JGK
 Delivery By : JGK
 Work Order :
 Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>					<u>Parameter</u>	<u>% RPD</u>
06/14	1305	BXW	Chloride (as Cl)	9.9 mg/L		SM 2011 4500 Cl C	0.00	100.0 *
06/10	1200	JK	Dissolved Oxygen	7.50 mg/L		HACH 10360 R1.2	0.00	N/A
06/10	1200	JK	pH	7.9 S.U.		SM 2011 4500-H+B	0.00	N/A
06/11	1502	EJD	Solids, Total Dissolved	370.0 mg/L		SM 2011 2540 C	1.49	N/A *
06/11	1239	EJD	Sulfate (as SO4)	< 1.000 mg/L		EPA 375.4	2.60	N/A *
06/10	1200	JK	Temperature	24.10 °C		SM 2000 2550 B	0.00	N/A
06/10	1600	BXW	Fecal Coliform	6.0 /100ml		06/2012 Colilert18	0.00	N/A
06/14	1611	EJD	Nitrate + Nitrite	3.80 mg/L		HACH 10206	3.74	101.0 *

* QA data shown is from a different sample or standard on the same date.

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature *Krist Muller*
 Environmental Services Co., Inc.

MR

Environmental Services Company, Inc.

Corporate Office
 13715 West Markham
 Little Rock, AR 72211
 Tel. (501)221-2565 Fax (501)221-1341

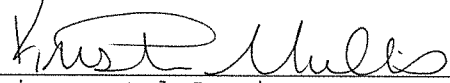
Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2107010153	Composite Date: 07/07/21 - 07/07/21	Collected By: ANTHONY HOYT
Customer Name : YELLVILLE WASTEWATER	Sample Time : 1300-1600	Delivery By : DMP
Customer/Permit No. : 3770 / ar0034037 001a	Sample Type : COMP WWATER	Work Order :
Report Date : 07/14/21	Sample From : EFFLUENT	Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>					<u>Parameter</u>	<u>% RPD</u>
07/09	1445	EJD	Ammonia as N, (HACH/SM)	0.06 mg/L		SM 2011 4500-NH3-G	0.00	97.2 *
07/13	1256	KNM	Solids, Total Suspended	< 4.20 mg/L		SM 2011 2540 D	25.36	N/A *
07/09	0600	BXW	BOD, Carbonaceous	< 2.0 mg/L		SM 2011 5210 B	19.81	137.0 *

* QA data shown is from a different sample or standard on the same date.

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Signature 
 Environmental Services Co., Inc.

Bsw

Environmental Services Company, Inc.

Corporate Office
 13715 West Markham
 Little Rock, AR 72211
 Tel. (501)221-2565 Fax (501)221-1341

Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2107010156
 Customer Name : YELLVILLE WASTEWATER
 Customer/Permit No. : 3770 / ar0034037 001a
 Report Date : 07/15/21

Sample Date : 07/08/21
 Sample Time : 1120
 Sample Type : GRAB WWATER
 Sample From : EFFLUENT

Collected By: DMP
 Delivery By : DMP
 Work Order :
 Purchase Order :


Laboratory Analysis

<u>Analysis</u>							<u>Quality Assurance</u>		
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
								<u>% RPD</u>	<u>% Recovery</u>
07/13	1125	BXW	Chloride (as Cl)	49.9 mg/L			SM 2011 4500 Cl C	0.00	90.0 *
07/08	1135	DMP	Dissolved Oxygen	7.10 mg/L			HACH 10360 R1.2	0.00	N/A *
07/08	1135	DMP	pH	7.5 S.U.			SM 2011 4500-H+B	0.00	N/A *
07/13	1445	EJD	Solids, Total Dissolved	400.0 mg/L			SM 2011 2540 C	10.35	N/A *
07/09	0923	EJD	Sulfate (as SO4)	< 1.000 mg/L			EPA 375.4	2.60	N/A *
07/08	1640	EJD	Fecal Coliform	13.3 /100ml			06/2012 Colilert18	0.00	N/A *
07/09	1005	EJD	Nitrate + Nitrite	14.60 mg/L	(b)		HACH 10206	0.00	101.0 *

* QA data shown is from a different sample or standard on the same date.
 (b) Exceeds Permit Limits for Average Concentration

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Signature



Environmental Services Co., Inc.

TSW

ENVIRONMENTAL SERVICES COMPANY, INC.

Corporate Office:
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Fax: (501) 221-1341

Branch Office:
1107 Century Ave.
Springdale, AR 72764
Phone: (501) 750-1170
Fax: (501) 750-1172

Chain of custody

Company Name:		City of Yellville							Parameter					Turn Around				
Address:		Po Box 647							CBOD, TSS	NH3	FECAL COLI	NO3+NO2	Chloride, Sulfate, TDS				Regular	X
		Yellville, AR 72687															48 Hour	
Phone Number:		(870) 449-5210			Customer Number:												24 Hour	
Fax Number:		(870) 449-4142			Pur. Order Number:												Special:	
Location:									Lab ID Number									
Sample Identification	Date & Time Collected	Matrix	G	C	F	Container Size & Type	No.	Preservative										
Effluent	7/7/2021 1300-1600	H2O		X		1 Quart PLASTIC	1	NONE 6 DEG CENT	X								2107010153	
Effluent	7/7/2021 1300-1600	H2O		X		8 oz PLASTIC	1	H2SO4 6 DEG CENT		X							I	
Effluent	7/8/2021 1130	H2O	X			1 Quart PLASTIC	1	NONE 6 DEG CENT				X					2107010156	
Effluent	7/8/2021 1130	H2O	X			8 oz PLASTIC	1	H2SO4 6 DEG CENT			X						I	
Effluent	7/8/2021 1120	H2O	X			100 ml PLASTIC	1	NONE 6 DEG CENT			X						I	

Sampled By: Anthony Hoyt	Date: 7/7/2021 7/8/2021	Time: 1300-1600	Relinquished By: Anthony Hoyt	Date: 7/8/2021	Time: 1120	Received by: David Pierce DAVID PIERCE	Date: 07/08/21	Time: 1120	
Shipped by:	Date:	Time:	Relinquished by:	Date:	Time:	Received by:	Date:	Time:	
Shipped through:								Date:	Time:
Relinquished by: David Pierce	Date: 07/08/21	Time: 1640	Received by:	Date:	Time:	Received for lab by: Janet [Signature]	Date: 7/8/21	Time: 1640	

Comments: Client wrote Relinquish time in Sample Grab times. PM 7.5/7.5 at 1135
David Pierce sampled Grab at 1130 D.O. 7.10/7.07 at 1135

BXW

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Control Number: 2107010239	Composite Date: 07/14/21 - 07/14/21	Collected By: ANTHONY HOYT
Customer Name : YELLVILLE WASTEWATER	Sample Time : 1300-1600	Delivery By : DMP
Customer/Permit No. : 3770 / ar0034037 001a	Sample Type : COMP WWATER	Work Order :
Report Date : 07/21/21	Sample From : EFFLUENT	Purchase Order :

<u>Laboratory Analysis</u>						<u>Quality Assurance</u>	
Analysis						Precision	Accuracy
<u>Date</u> <u>Time</u> <u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>% RPD</u>	<u>% Recovery</u>
07/16 1350 EJD	Ammonia as N, (HACH/SM)	0.05 mg/L			SM 2011 4500-NH3-G	1.90	98.4 *
07/16 1023 EJD	Solids, Total Suspended	2.50 mg/L			SM 2011 2540 D	2.51	N/A *
07/16 0620 KNM	BOD, Carbonaceous	3.2 mg/L			SM 2011 5210 B	0.00	103.0 *

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Signature 
 Environmental Services Co., Inc.

NR

Environmental Services Company, Inc.

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Control Number: 2107010242
 Customer Name : YELLVILLE WASTEWATER
 Customer/Permit No. : 3770 / ar0034037 001a
 Report Date : 07/19/21

Sample Date : 07/15/21
 Sample Time : 1250
 Sample Type : GRAB WWATER
 Sample From : FINAL EFFLUENT

Collected By: DMP
 Delivery By : DMP
 Work Order :
 Purchase Order :

Laboratory Analysis

<u>Analysis</u>						<u>Quality Assurance</u>			
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
								<u>% RPD</u>	<u>% Recovery</u>
07/15	1255	DMP	Dissolved Oxygen	7.79 mg/L			HACH 10360 R1.2	0.64	N/A
07/15	1255	DMP	pH	7.8 S.U.			SM 2011 4500-H+B	0.00	N/A
07/15	1650	EJD	Fecal Coliform	14.8 /100ml			06/2012 Colilert18	0.00	N/A *
07/19	0920	EJD	Nitrate + Nitrite	10.60 mg/L	(b)		HACH 10206	1.36	98.9 *

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 (b) Exceeds Permit Limits for Average Concentration

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Signature _____


 Environmental Services Co., Inc.

ENVIRONMENTAL SERVICES COMPANY, INC.

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Phone: (501) 750-1170
Fax: (501) 750-1172

Chain of custody

Company Name:	City of Yellville		Parameter										Turn Around			
Address:	Po Box 647		CBOD, TSS	NH3	FECAL COLI	NO2+NO3									Regular	X
	Yellville, AR 72687														48 Hour	
Phone Number:	(870) 449-5210	Customer Number:													24 Hour	
Fax Number:	(870) 449-4142	Pur. Order Number:													Special:	
Location:																

Sample Identification	Date & Time Collected	Matrix	G	C	F	Container Size & Type	No.	Preservative	CBOD, TSS	NH3	FECAL COLI	NO2+NO3					Lab ID Number
Effluent	7/14/2021 1300-1600	H2O		X		1 Liter PLASTIC	1	NONE 6 DEG CENT	X								2107010239
Effluent	7/14/2021 1300-1600	H2O		X		8 OZ PLASTIC	1	H2SO4 6 DEG CENT		X							I
Effluent	7/15/2021 07/15/2021 1250	H2O	X			8 OZ PLASTIC	1	H2SO4 6 DEG CENT				X					2107010242
Effluent	7/15/2021 1250	H2O	X			100 ML PLASTIC	1	NONE 6 DEG CENT			X						I

Sampled By: Anthony Hoyt	Date: 7/14/2021 7/15/2021	Time: 1300-1600	Relinquished By: Anthony Hoyt	Date: 7/15/2021	Time: 1300	Received by: David Piece	Date: 7/14/2021 07/15/21	Time: 1300
Shipped by:	Date:	Time:	Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Shipped through:	Date:	Time:	Relinquished by:	Date:	Time:	Received for lab by:	Date:	Time:
Relinquished by: David Piece	Date: 07/15/21	Time: 1645	Received by:	Date:	Time:	Received for lab by: Jungman Benjamin	Date: 7/15/21	Time: 1645

Comments: Fecal start 1650 EID
 PH taken at 1255 was 7.8/7.8 S.U.
 DO taken at 1255 was 7.79/7.74 mg/L
 Temp taken at 1255 was 27.2/27.1°C

BXW

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Control Number: 2108010131

Sample Date : 08/05/21

Collected By: DMP

Customer Name : YELLVILLE WASTEWATER

Sample Time : 1200

Delivery By : DMP

Customer/Permit No. : 3770 / ar0034037 001a

Sample Type : GRAB WWATER

Work Order :

Report Date : 08/13/21

Sample From : FINAL EFFLUENT

Purchase Order :

Laboratory Analysis

Analysis						Quality Assurance		
Date	Time By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
08/09	1400 BXW	Chloride (as Cl)	69.9 mg/L			SM 2011 4500 Cl C	0.00	100.0 *
08/05	1205 DMP	Dissolved Oxygen	8.06 mg/L			HACH 10360 R1.2	0.75	N/A
08/05	1205 DMP	pH	7.8 S.U.			SM 2011 4500-H+B	1.27	N/A *
08/12	0925 EJD	Solids, Total Dissolved	368.0 mg/L			SM 2011 2540 C	3.47	N/A *
08/10	1400 BXW	Sulfate (as SO4)	30.000 mg/L			EPA 375.4	0.00	N/A *
08/05	1840 DMP	Fecal Coliform	1553.1 /100ml	(b)		06/2012 Colilert18	0.00	N/A *
08/10	1110 AAL	Nitrate + Nitrite	10.10 mg/L	(c)		HACH 10206	0.00	103.0 *

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(b) Exceeds Permit Limits for Maximum Concentration

(c) Exceeds Permit Limits for Average Concentration

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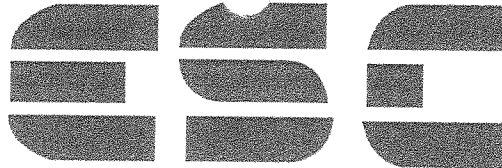
Signature



Environmental Services Co., Inc.

BXW

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Corporate Office, Little Rock, Arkansas
 501-221-2565

Carlsbad, New Mexico
 575-887-1ESC

Phone: 479-750-1170 Fax: 479-750-1172

CHAIN OF CUSTODY

Client Information				Project Information						Requested Parameters								
Client: Yellville WW				Permit/Project #: AR0034037						Chloride (7), Sulfate (36), TDS (27) Fecal Coliform (43.IF) NO3+NO2 (91)								
Address: PO Box 647				Purchase Order #:														
Yellville Ar 72687				Sampler Name(s): <i>DAVID PIERCE</i>														
Phone: (870)449-5210				and Signature(s): <i>David Pierce</i>														
Fax: (870) 449-4142																		
Contact:																		
ESC Client Number: 3770																		
Sample Identification			Sample Collection			Sample Containers												
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#									
Final Effluent	2108010131	08/05/21	1200	Grab	Wwater	Plastic	1 Liter	Cool ≤6°C	1	X								
	↓	↓	↓	Grab	Wwater	Plastic	100 mls	Cool ≤6°C	1		X							
				Grab	Wwater	Plastic	8 oz	H2SO4	1			X						
Relinquished By: (Signature and Printed Name)				Date	Time	Received By: (Signature and Printed Name)				Date	Time	Custody Seals:						
<i>David Pierce DAVID PIERCE</i>				08/05/21	1820	<i>Secure Walk in</i>				08/05/21	1820	Used? <input checked="" type="checkbox"/>	Intact? <input type="checkbox"/>	Turnaround:				
<i>secure walk in</i>				8/6/21	0510	<i>Jammy Benjamin</i>				8/6/21	0510	Regular <input checked="" type="checkbox"/>	Special <input type="checkbox"/>	Were samples properly preserved:				
Comments: Per Stewart Oxford, record fecal temperatures below.												Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>					
	Temp °C	Time	Analyst	Fecal Coliform				Field Test	Time	Analyst	Result	Result	Units					
Picked up								pH:	1205	DMP	7.8	7.9	S.U					
Received by Lab								DO:	1205	DMP	8.06	8.00	mg/L					
								Temp:	1205	DMP	27.8	27.8	°C					
								Units:										
Cool all samples to 6 degrees C.										Chlorinated? No				This Document is Page 1 of 1				

Environmental Services Company, Inc.

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Control Number: 2108010197
 Customer Name : YELLEVILLE WASTEWATER
 Customer/Permit No. : 3770 / ar0034037 001a
 Report Date : 08/18/21

Sample Date : 08/12/21
 Sample Time : 1020
 Sample Type : GRAB WWATER
 Sample From : FINAL EFFLUENT

Collected By: HMK
 Delivery By : HMK
 Work Order :
 Purchase Order :

<u>Laboratory Analysis</u>						<u>Quality Assurance</u>		
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>					<u>Parameter</u>	<u>% RPD</u>
08/16	1120	BXW	Chloride (as Cl)	60.0 mg/L		SM 2011 4500 Cl C	0.00	100.0 *
08/12	1020	HMK	Dissolved Oxygen	7.80 mg/L		HACH 10360 R1.2	1.61	N/A *
08/12	1020	HMK	pH	6.8 S.U.		SM 2011 4500-H+B	0.00	N/A *
08/16	1440	EJD	Solids, Total Dissolved	402.0 mg/L		SM 2011 2540 C	3.35	N/A *
08/16	1028	EJD	Sulfate (as SO4)	15.000 mg/L		EPA 375.4	0.00	N/A *
08/12	1540	EJD	Fecal Coliform	866.4 /100ml	(b)	06/2012 Colilert18	0.00	N/A *
08/12	1020	HMK	Temperature (°F)	83.7 °F		SM 2000 2550 B	0.24	N/A
08/16	1501	EJD	Nitrate + Nitrite	11.20 mg/L	(c)	HACH 10206	0.00	98.9

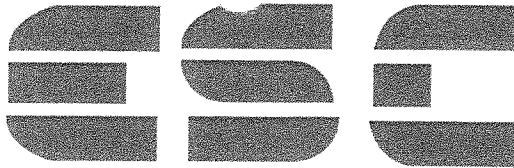
* QA data shown is from a different sample or standard on the same date.
 (b) Exceeds Permit Limits for Maximum Concentration
 (c) Exceeds Permit Limits for Average Concentration

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Signature 
 Environmental Services Co., Inc.

BXW

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Carlsbad, New Mexico
 575-887-1ESC

Phone: 479-750-1170 Fax: 479-750-1172

CHAIN OF CUSTODY

Client Information				Project Information							Requested Parameters												
Client:	Yellville WW			Permit/Project #:	AR0034037						Chloride (7), Sulfate (36), TDS (27)	Fecal Coliform (43,IF)	NO3+NO2 (91)										
Address:	PO Box 647 Yellville Ar 72687			Purchase Order #:																			
Phone:	(870)449-5210			Sampler Name(s):	Hayden Kelly																		
Fax:	(870) 449-4142			and Signature(s):	[Signature]																		
Contact:																							
ESC Client Number:	3770																						
Sample Identification			Sample Collection				Sample Containers																
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#														
Final Effluent	2108010295	8/12/21	1000	Grab	Wwater	Plastic	1 Liter	Cool ≤6°C	1	X													
	I	I	I	Grab	Wwater	Plastic	100 mls	Cool ≤6°C	1		X												
	2108010197			Grab	Wwater	Plastic	8 oz	H2SO4	1			X											
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:		Used?	<input checked="" type="checkbox"/>	Intact?	<input type="checkbox"/>										
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Turnaround:		Regular	<input checked="" type="checkbox"/>	Special	<input type="checkbox"/>										
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Were samples properly preserved:		Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>										
Comments: Per Stewart Oxford, record fecal temperatures below				Temp °C	Time	Analyst	FLOW DATA	Field/Test	Time	Analyst	Result	Result	Units										
Picked up	N/A	14 MLC						pH	0.20	HMK	6.86	6.84											
Received by Lab	N/A	8/12/21						DO:	I	I	7.85	7.71											
								Reading:			83.7	83.5											
								Units:	Fecal	1540	EJO												
Cool all samples to 6 degrees C.										Chlorinated?	No		This Document is Page 1 of 1										

Environmental Services Company, Inc.

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Control Number: 2109010070
 Customer Name : YELLEVILLE WASTEWATER
 Customer/Permit No. : 3770 / ar0034037 001a
 Report Date : 09/13/21

Sample Date : 09/02/21
 Sample Time : 1115
 Sample Type : GRAB WWATER
 Sample From : FINAL EFFLUENT

Collected By: JGK
 Delivery By : JGK
 Work Order :
 Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>				<u>% RPD</u>	<u>% Recovery</u>
09/13	1122	BXW	Chloride (as Cl)	89.9 mg/L		SM 2011 4500 Cl C	8.00	109.9
09/02	1120	JK	Dissolved Oxygen	7.40 mg/L		HACH 10360 R1.2	0.00	N/A *
09/02	1120	JK	pH	7.0 S.U.		SM 2011 4500-H+B	0.00	N/A *
09/09	1235	AKA	Solids, Total Dissolved	410.0 mg/L		SM 2011 2540 C	2.97	N/A
09/09	1157	AKA	Sulfate (as SO4)	32.000 mg/L		EPA 375.4	3.17	N/A
09/02	1120	JK	Temperature	26.40 °C		SM 2000 2550 B	0.00	N/A
09/02	1655	EJD	Fecal Coliform	131.3 /100ml		06/2012 Colilert18	0.00	N/A *
09/07	1300	BXW	Nitrate + Nitrite	9.83 mg/L		HACH 10206	17.78	97.1 *

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Signature



Environmental Services Co., Inc.

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Environmental Services Company, Inc.

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Northwest Arkansas Branch
 1107 Century Avenue
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Control Number: 2109010171
 Customer Name : YELLVILLE WASTEWATER
 Customer/Permit No. : 3770 / ar0034037 001a
 Report Date : 09/13/21

Sample Date : 09/09/21
 Sample Time : 1232
 Sample Type : GRAB WWATER
 Sample From : FINAL EFFLUENT

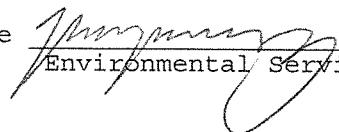
Collected By: HMK
 Delivery By : HMK
 Work Order :
 Purchase Order :

Laboratory Analysis

Analysis			Laboratory Analysis				Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
09/09	1232	HMK	Dissolved Oxygen	8.04 mg/L			HACH 10360 R1.2	0.30	N/A *
09/09	1232	HMK	pH	8.3 S.U.			SM 2011 4500-H+B	0.00	N/A *
09/09	1644	BXW	Fecal Coliform	1.0 /100ml			06/2012 Colilert18	0.00	N/A *
09/10	1400	AKA	Nitrate + Nitrite	12.60 mg/L	(b)		HACH 10206	1.90	99.6 *

* QA data shown is from a different sample or standard on the same date.
 (b) Exceeds Permit Limits for Average Concentration

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature 
 Environmental Services Co., Inc.

Handwritten initials

Environmental Services Company, Inc.

Corporate Office
 13715 West Markham
 Little Rock, AR 72211
 Tel. (501)221-2565 Fax (501)221-1341

Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2110010141
 Customer Name : YELLVILLE WASTEWATER
 Customer/Permit No. : 3770 / ar0034037 001a
 Report Date : 10/12/21

Sample Date : 10/07/21
 Sample Time : 1240
 Sample Type : GRAB WWATER
 Sample From : FINAL EFFLUENT

Collected By: WGW
 Delivery By : WGW
 Work Order :
 Purchase Order :

Analysis			Laboratory Analysis				Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
10/11	1358	BXW	Chloride (as Cl)	29.9 mg/L			SM 2011 4500 Cl C	0.00	100.0
10/07	1245	WGW	Dissolved Oxygen	7.59 mg/L			HACH 10360 R1.2	0.00	N/A *
10/07	1245	WGW	pH	7.8 S.U.			SM 2011 4500-H+B	0.00	N/A *
10/11	1053	BXW	Solids, Total Dissolved	550.0 mg/L			SM 2011 2540 C	0.83	N/A *
10/11	1130	BXW	Sulfate (as SO4)	40.000 mg/L			EPA 375.4	0.00	N/A
10/07	1245	WGW	Temperature	25.50 °C			SM 2000 2550 B	0.00	N/A
10/07	1700	SLL	Fecal Coliform	< 1.0 /100ml			06/2012 Colilert18	0.00	N/A *
10/08	1215	NTR	Nitrate + Nitrite	8.66 mg/L			HACH 10206	0.39	101.2 *

* QA data shown is from a different sample or standard on the same date.

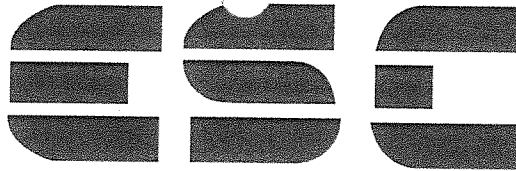
All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature _____


 Environmental Services Co., Inc.

Handwritten mark

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Corporate Office, Little Rock, Arkansas
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Carlsbad, New Mexico
 575-887-1ESC

Phone: 479-750-1170 Fax: 479-750-1172

CHAIN OF CUSTODY

Client Information						Project Information					Requested Parameters									
Client:		Yellville WW				Permit/Project #:		AR0034037			Chloride (7), Sulfate (36), TDS (27)	Fecal Coliform (43,IF)	NO3+NO2 (91)							
Address:		PO Box 647 Yellville Ar 72687				Purchase Order #:														
Phone:		(870) 232-2984				Sampler Name(s):		William Willoughby												
Fax:		(870) 449-4142				and Signature(s):		<i>William Willoughby</i>												
Contact:		Anthony Holt				ESC Client Number:		3770												
Sample Identification			Sample Collection			Sample Containers														
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#											
Final Effluent	2110010148	10/7/21	1240	Grab	Wwater	Plastic	1 Liter	Cool ≤6°C	1	X										
	2110010140	↓	↓	Grab	Wwater	Plastic	100 mls	Cool ≤6°C	1		X									
				Grab	Wwater	Plastic	8 oz	H2SO4	1			X								
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:		Used?	<input checked="" type="checkbox"/>	Intact?	<input type="checkbox"/>							
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Turnaround:		Regular	<input checked="" type="checkbox"/>	Special	<input type="checkbox"/>							
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Were samples properly preserved:		Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>							
Comments: Per Stewart Oxford, record fecal temperatures below										FLOW DATA		Field Test		Time	Analyst	Result	Result	Units		
Picked up	Temp °C	Time	Analyst	Analyst:		pH:	1245	W6W	7.8	7.8										
Received by Lab	2.4 °C	1245	W6W	Time:		DO:	1245	W6W	7.99	7.59										
				Reading:		Temp:	1245	W6W	25.5	25.5	60									
				Units:																
Cool all samples to 6 degrees C.										Chlorinated? No		This Document is Page 1 of 1								

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Northwest Arkansas Branch
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Control Number: 2110010244
 Customer Name : YELLVILLE WASTEWATER
 Customer/Permit No. : 3770 / AR0034037 001A
 Report Date : 10/18/21

Sample Date : 10/14/21
 Sample Time : 1050
 Sample Type : GRAB WWATER
 Sample From : FINAL EFFLUENT

Collected By: WGW
 Delivery By : WGW
 Work Order :
 Purchase Order :


Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
10/14	1055	WGW	Dissolved Oxygen	7.87 mg/L			HACH 10360 R1.2	0.00	N/A
10/14	1035	WGW	pH	7.3 S.U.			SM 2011 4500-H+B	0.00	N/A
10/14	1055	WGW	Temperature	22.60 °C			SM 2000 2550 B	0.00	N/A
10/14	1630	SLL	Fecal Coliform	1.0 /100ml			06/2012 Colilert18	0.00	N/A *
10/15	1205	BXW	Nitrate + Nitrite	8.51 mg/L			HACH 10206	0.91	100.0 *

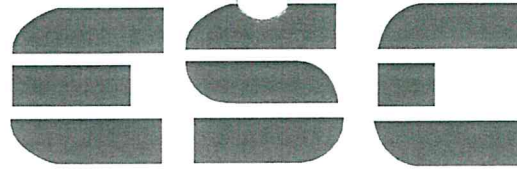
* QA data shown is from a different sample or standard on the same date.

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature _____


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Carlsbad, New Mexico
 575-887-1ESC

Phone: 479-750-1170 Fax: 479-750-1172

CHAIN OF CUSTODY

Client Information				Project Information						Requested Parameters										
Client:		Yellville WW		Permit/Project #:		AR0034037				Fecal Coliform (43.IF) NO3+NO2 (91)										
Address:		PO Box 647		Purchase Order #:																
		Yellville Ar 72687		Sampler Name(s):		William Willoughby														
Phone:		(870) 232-2984		and Signature(s):		<i>William Willoughby</i>														
Fax:		(870) 449-4142		ESC Client Number:		3770														
Contact:		Anthony Holt																		
Sample Identification		Sample Collection				Sample Containers														
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#											
Final Effluent	2110016244	10/14/21	1650	Grab	Wwater	Plastic	100 mls	Cool ≤6°C	1	X										
	↓	↓	↓	Grab	Wwater	Plastic	8 oz	H2SO4	1		X									
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:												
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Used? <input checked="" type="checkbox"/> Intact? <input type="checkbox"/>												
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Turnaround: <input checked="" type="checkbox"/> Regular <input type="checkbox"/> Special <input type="checkbox"/>												
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Were samples properly preserved: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No												
Comments: Per Stewart Oxford, record fecal temperatures below.				(FLOW DATA)		Field Test	Time	Analyst	Result	Result	Units									
Picked up		Temp °C	Time	Analyst		Analyst:	pH:	1055	W&W	7.3	7.5									
Received by Lab						Time:	DO:	1055	W&W	7.87	7.87									
						Reading:	Temp:	1055	W&W	22.6	22.6	°C								
						Units:	Fecal St	1630	SLC											
Cool all samples to 6 degrees C.							Chlorinated? No			This Document is Page 1 of 1										

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Environmental Services Company, Inc.

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Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
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Control Number: 2111010122
 Customer Name : YELLVILLE WASTEWATER
 Customer/Permit No. : 3770 / AR0034037 001A
 Report Date : 12/01/21

Sample Date : 11/04/21
 Sample Time : 1300
 Sample Type : GRAB WWATER
 Sample From : FINAL EFFLUENT

Collected By: JGK
 Delivery By : JGK
 Work Order :
 Purchase Order :

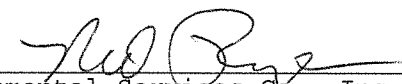
Laboratory Analysis

<u>Analysis</u>							<u>Quality Assurance</u>		
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
								<u>% RPD</u>	<u>% Recovery</u>
11/08	1000	NTR	Chloride (as Cl)	50.0 mg/L			SM 2011 4500 Cl C	0.00	98.0
11/04	1305	JGK	Dissolved Oxygen	8.50 mg/L			HACH 10360 R1.2	0.00	N/A *
11/04	1305	JGK	pH	7.7 S.U.			SM 2011 4500-H+B	0.00	N/A *
11/08	1000	EJD	Solids, Total Dissolved	412.0 mg/L			SM 2011 2540 C	2.96	N/A
11/08	1000	NTR	Sulfate (as SO4)	20.000 mg/L			EPA 375.4	0.00	N/A
11/04	1305	JGK	Temperature	16.50 °C			SM 2000 2550 B	0.00	N/A
11/04	1730	JGK	Fecal Coliform	1.0 /100ml			06/2012 Colilert18	0.00	N/A *
11/12	1312	JNT	Nitrate + Nitrite	8.02 mg/L			HACH 10206	0.00	98.2 *

* QA data shown is from a different sample or standard on the same date.

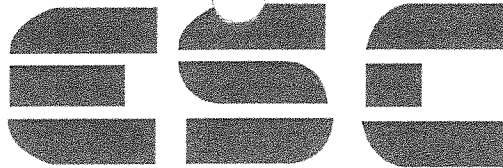
All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature _____


 Environmental Services Co., Inc.

NY

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Carlsbad, New Mexico
 575-887-1ESC

Phone: 479-750-1170 Fax: 479-750-1172

CHAIN OF CUSTODY

Client Information				Project Information						Requested Parameters					
Client: Yellville WW				Permit/Project #: AR0034037						Chloride (7), Sulfate (36), TDS (27) Fecal Coliform (43.1F) NO3+NO2 (91)					
Address: PO Box 647				Purchase Order #:											
Yellville Ar 72687				Sampler Name(s): J. Koenrich											
Phone: (870) 232-2984				and Signature(s): <i>[Signature]</i>											
Fax: (870) 449-4142															
Contact: Anthony Holt				ESC Client Number: 3770											
Sample Identification		Sample Collection				Sample Containers									
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#						
Final Effluent	2111010122	11/4/21	1300	Grab	Wwater	Plastic	1 Liter	Cool ≤6°C	1	X					
		I	I	Grab	Wwater	Plastic	100 mls	Cool ≤6°C	1		X				
				Grab	Wwater	Plastic	8 oz	H2SO4	1			X			
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:							
								Used? <input checked="" type="checkbox"/> Intact? <input type="checkbox"/>							
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Turnaround:							
								Regular <input checked="" type="checkbox"/> Special <input type="checkbox"/>							
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Were samples properly preserved:							
<i>[Signature]</i>		11/4/21	1705	<i>[Signature]</i> James Throck		11/4/21	1705	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>							
Comments: Per Stewart Oxford, record fecal temperatures below				FLOW DATA		Field Test		Time	Analyst	Result	Result	Units			
Picked up		Temp °C	Time	Analyst		pH:		1305	JN	7.7	7.7				
Received by Lab				Time:		DO:		1305	BK	8.5	8.5				
				Reading:		Temp:		1305	JN	16.5	16.5				
				Units:											
Cool all samples to 6 degrees C.						Chlorinated? No			This Document is Page 1 of 1						

Environmental Services Company, Inc.

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 1107 Century Avenue
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Control Number: 2111010219
 Customer Name : YELLVILLE WASTEWATER
 Customer/Permit No. : 3770 / AR0034037 001A
 Report Date : 12/01/21

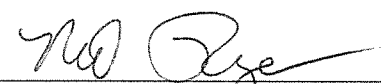
Sample Date : 11/11/21
 Sample Time : 1200
 Sample Type : GRAB WWATER
 Sample From : FINAL EFFLUENT

Collected By: DLD
 Delivery By : DLD
 Work Order :
 Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>				<u>% RPD</u>	<u>% Recovery</u>
11/11	1210	DLD	Dissolved Oxygen	4.90 mg/L	(b)	HACH 10360 R1.2	2.06	N/A
11/11	1205	DLD	pH	6.6 S.U.		SM 2011 4500-H+B	0.00	N/A *
11/11	1205	DLD	Temperature	17.90 °C		SM 2000 2550 B	0.00	N/A
11/11	1630	JNT	Fecal Coliform	2.0 /100ml		06/2012 Colilert18	0.00	N/A
11/19	1000	NTR	Nitrate + Nitrite	9.29 mg/L		HACH 10206	5.26	91.9 *

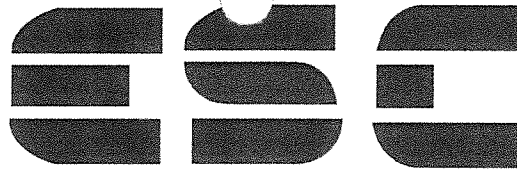
* QA data shown is from a different sample or standard on the same date.
 (b) Under Minimum Permit Limits

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature 
 Environmental Services Co., Inc.

158

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 575-887-1ESC

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CHAIN OF CUSTODY

Client Information				Project Information						Requested Parameters						
Client:		Yellville WW		Permit/Project #:		AR0034037				Fecal Coliform (43.1F) NO3+NO2 (91)						
Address:		PO Box 647		Purchase Order #:												
		Yellville Ar 72687		Sampler Name(s):		DAVID LARRU										
Phone:		(870) 232-2984		and Signature(s):												
Fax:		(870) 449-4142														
Contact:		Anthony Holt														
ESC Client Number:		3770														
Sample Identification		Sample Collection				Sample Containers										
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#							
Final Effluent	211010219	11-11-21	1200	Grab	Wwater	Plastic	100 mls	Cool ≤6°C	1	X						
	211010219	11-11-21	1203	Grab	Wwater	Plastic	8 oz	H2SO4	1	X						
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:								
								Used? <input checked="" type="checkbox"/> Intact? <input type="checkbox"/>								
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Turnaround:								
								Regular <input checked="" type="checkbox"/> Special <input type="checkbox"/>								
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Were samples properly preserved:								
		11/11/21	1600			11/11/21	1630	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>								
Comments: Per Stewart Oxford, record fecal temperatures below:				FLOW DATA		Field Test		Time	Analyst	Result	Result	Units				
Picked up	Temp °C	Time	Analyst	Analyst:		pH:	1265	18	6.60	6.58	mg/L					
Received by Lab				Time:		DO:	1210	18	6.50	6.58	mg/L					
				Reading:		Temp:	1205	18	17.9	17.9	°C					
				Units:				18								
Cool all samples to 6 degrees C.						Chlorinated? No		This Document is Page <u>1</u> of <u>1</u>								

Fecal Start 11/11/21 JNT

4.9, 4.8
 12/11/21

Environmental Services Company, Inc.

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Control Number: 2112010064	Composite Date: 12/01/21 - 12/01/21	Collected By: ANTHONY HOYT
Customer Name : YELLVILLE WASTEWATER	Sample Time : 1300-1600	Delivery By : WGW
Customer/Permit No. : 3770 / AR0034037 001A	Sample Type : COMP WATER	Work Order :
Report Date : 12/28/21	Sample From : EFFLUENT	Purchase Order :

<u>Laboratory Analysis</u>						<u>Quality Assurance</u>				
Analysis	Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision	Accuracy
									% RPD	% Recovery
	12/23	0900	KSR	Ammonia as N, (HACH/SM)	0.14 mg/L			SM 2011 4500-NH3-G	1.84	103.0 *
	12/08	1410	AAL	Solids, Total Suspended	< 2.50 mg/L			SM 2011 2540 D	4.26	N/A *
	12/03	0630	SLL	BOD, Carbonaceous	< 2.0 mg/L			SM 2011 5210 B	0.00	114.0 *

* QA data shown is from a different sample or standard on the same date.

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Signature _____

Ashley Greene
 Environmental Services Co., Inc.

JW

Environmental Services Company, Inc.

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 Springdale, AR 72762
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Control Number: 2112010068
 Customer Name : YELLVILLE WASTEWATER
 Customer/Permit No. : 3770 / AR0034037 001A
 Report Date : 12/30/21

Sample Date : 12/02/21
 Sample Time : 1300/1400/1500
 Sample Type : GRAB WATER
 Sample From : EFFLUENT

Collected By: ANTHONY HOYT
 Delivery By : WGW
 Work Order :
 Purchase Order :

Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision	Accuracy
								% RPD	% Recovery
12/15	0940	DWC	Chloride (as Cl)	40.0 mg/L			SM 2011 4500 Cl C	0.00	98.0 *
12/03	0600	NTR	Solids, Total Dissolved	416.0 mg/L			SM 2011 2540 C	0.68	N/A *
12/23	0730	NTR	Sulfate (as SO4)	10.000 mg/L			EPA 375.4	0.00	N/A
12/02	1720	WGW	Fecal Coliform	34.1 /100ml			06/2012 Colilert18	0.00	N/A *
12/13	1000	NTR	Nitrate + Nitrite	6.62 mg/L			HACH 10206	4.21	101.8 *

* QA data shown is from a different sample or standard on the same date.

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature _____

Ashley Greene
 Environmental Services Co., Inc.

12/30

ENVIRONMENTAL SERVICES COMPANY, INC.

Corporate Office:
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Fax: (501) 221-1341

Branch Office:
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Springdale, AR 72764
Phone: (501) 750-1170
Fax: (501) 750-1172

Chain of custody

Company Name:	City of Yellville	<h1 style="font-size: 2em;">Sample Period One</h1>	Parameter							Turn Around		
Address:	Po Box 647										Regular	X
	Yellville, AR 72687										48 Hour	
Phone Number:	(870) 449-5210										24 Hour	
Fax Number:	(870) 449-4142									Special:		
Location:												

Sample Identification	Date & Time Collected	Matrix	G	C	F	Container Size & Type	No.	Preservative	TSS(28) CBOD(70)	NH3-N(15-A)	FECAL COLI(43IF)	NO3+NO2(91)	Chloride(7) Sulfate(6) TDS(25)	Lab ID Number
Effluent <i>2112010064</i>	12/1/2021 1300-1600	H2O		X		1 LITER PLASTIC	1	NONE 6 DEG CENT	X					
Effluent <i>L</i>	12/1/2021 1300-1600	H2O		X		8 OUNCE PLASTIC	1	H2SO4 6 DEG CENT		X				
Effluent <i>2112010008</i>	12/2/2021 <i>1300</i>	H2O	X			100 ML PLASTIC	1	NONE 6 DEG CENT			X			
Effluent <i>I</i>	12/2/2021 <i>1400</i>	H2O	X			8 OUNCE PLASTIC	1	H2SO4 6 DEG CENT			X			
Effluent <i>I</i>	12/2/2021 <i>1500</i>	H2O	X			1 LITER PLASTIC	1	NONE 6 DEG CENT				X		

Sampled By: <i>Anthony Hoyt</i> <i>Anthony Hoyt</i>	Date: 12/1/2021 12/2/2021	Time: 1300-1600 <i>1400</i>	Relinquished By: <i>Anthony Hoyt</i> <i>Anthony Hoyt</i>	Date: 12/2/2021	Time: <i>1150</i>	Received by: <i>William Wiloughby</i> <i>William Wiloughby</i>	Date: 12/2/21	Time: 1150
Shipped by:	Date:	Time:	Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Shipped through:								
Relinquished by: <i>William Wiloughby</i> <i>William Wiloughby</i>	Date: 12/2/21	Time: 1700	Received by: <i>Secure walk-in cooler</i> <i>Secure walk-in cooler</i>	Date: 12/2/21	Time: 0900	Received for job by: <i>James Thornton</i> <i>James Thornton</i>	Date: 12/2/21	Time: 0900

Comments:

WT

Environmental Services Company, Inc.

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 13715 West Markham
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Northwest Arkansas Branch
 1107 Century Avenue
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 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2112010177	Composite Date: 12/09/21 - 12/09/21	Collected By: RODNEY CONN
Customer Name : YELLVILLE WASTEWATER	Sample Time : 1300-1600	Delivery By : DMP
Customer/Permit No. : 3770 / AR0034037 001A	Sample Type : COMPOSITE SAMPLE	Work Order :
Report Date : 12/22/21	Sample From : EFFLUENT	Purchase Order :

Laboratory Analysis

<u>Analysis</u>						<u>Quality Assurance</u>			
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
								<u>% RPD</u>	<u>% Recovery</u>
12/17	1530	KSR	Ammonia as N, (HACH/SM)	0.10 mg/L			SM 2011 4500-NH3-G	1.49	98.7 *
12/17	1406	SLL	Solids, Total Suspended	< 14.90 mg/L			SM 2011 2540 D	6.13	N/A *
12/15	0855	SLL	BOD, Carbonaceous	13.3 mg/L	(b)		SM 2011 5210 B	0.00	96.0 *

* QA data shown is from a different sample or standard on the same date.
 (b) Exceeds Permit Limits for Average Concentration

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Signature Ashley Greene
 Environmental Services Co., Inc.

DN

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Control Number: 2112010180
 Customer Name : YELLVILLE WASTEWATER
 Customer/Permit No. : 3770 / AR0034037 001A
 Report Date : 12/15/21

Sample Date : 12/10/21
 Sample Time : 0845
 Sample Type : GRAB WATER
 Sample From : EFFLUENT

Collected By: DMP
 Delivery By : DMP
 Work Order :
 Purchase Order :

Laboratory Analysis

<u>Analysis</u>						<u>Quality Assurance</u>			
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
								<u>% RPD</u>	<u>% Recovery</u>
12/10	0850	DMP	Dissolved Oxygen	9.08 mg/L			HACH 10360 R1.2	0.22	N/A
12/10	0850	DMP	pH	7.4 S.U.			SM 2011 4500-H+B	1.34	N/A
12/10	1555	DMP	Fecal Coliform	< 1.0 /100ml			06/2012 Colilert18	0.00	N/A *
12/13	1000	NTR	Nitrate + Nitrite	5.17 mg/L			HACH 10206	4.21	101.8 *

* QA data shown is from a different sample or standard on the same date.

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Signature _____

Ashley Greene
 Environmental Services Co., Inc.

DL

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Control Number: 2112010573
 Customer Name : YELLVILLE SEWER - INFLUENT
 Customer Number : 3769
 Report Date : 12/22/21

Sample Date : 12/09/21
 Sample Time : 1645
 Sample Type : GRAB WATER
 Sample From : INFLUENT

Collected By: ROBERT PUGSLEY
 Delivery By : DMP
 Work Order :
 Purchase Order :

Laboratory Analysis

Analysis			Result	Notes	Quantity	Method
Date	Time	By	Parameter			
12/20	1400	ACL	Solids, Total Suspended			SM 2011 2540 D
12/15	0855	SLL	BOD, Carbonaceous			SM 2011 5210 B

Quality Assurance	
Precision	Accuracy
% RPD	% Recovery
0.00	N/A *
0.00	96.0 *

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Signature _____

Ashley Green
 Environmental Services Co., Inc.

JK

Environmental Services Company, Inc.

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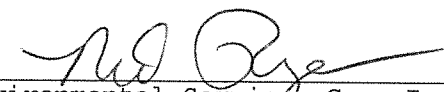
Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2201010116	Composite Date: 01/05/22 - 01/05/22	Collected By: CHRISTOPHER KNI
Customer Name : YELLVILLE WASTEWATER	Sample Time : 1300-1600	Delivery By : DMP
Customer/Permit No. : 3770 / AR0034037 001A	Sample Type : COMPOSITE WWATER	Work Order :
Report Date : 01/19/22	Sample From : EFFLUENT	Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>			
Analysis	<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
									<u>% RPD</u>	<u>% Recovery</u>
	01/10	1730	EJC	Ammonia as N, (HACH/SM)	< 0.01 mg/L			SM 2011 4500-NH3-G	0.00	101.0 *
	01/11	0952	EJC	Solids, Total Suspended	< 4.20 mg/L			SM 2011 2540 D	1.57	N/A *
	01/07	0500	NTR	BOD, Carbonaceous	< 2.0 mg/L			SM 2011 5210 B	0.00	99.1 *

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Signature 
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Control Number: 2201010119
 Customer Name : YELLVILLE WASTEWATER
 Customer/Permit No. : 3770 / AR0034037 001A
 Report Date : 01/19/22

Sample Date : 01/06/22
 Sample Time : 1430
 Sample Type : GRAB WWATER
 Sample From : EFFLUENT

Collected By: CHRISTOPHER KNI
 Delivery By : DMP
 Work Order :
 Purchase Order :

Laboratory Analysis

Analysis			Laboratory Analysis				Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
01/12	1545	DWC	Chloride (as Cl)	40.0 mg/L			SM 2011 4500 Cl C	0.00	93.9
01/06	1434	DMP	Dissolved Oxygen	10.23 mg/L			HACH 10360 R1.2	0.18	N/A *
01/06	1434	DMP	pH	7.5 S.U.			SM 2011 4500-H+B	0.00	N/A *
01/13	1510	EJC	Solids, Total Dissolved	208.0 mg/L			SM 2011 2540 C	13.45	N/A
01/13	1555	JNT	Sulfate (as SO4)	< 1.000 mg/L			EPA 375.4	22.22	N/A *
01/06	1917	DMP	Fecal Coliform	1.0 /100ml			06/2012 Colilert18	0.00	N/A *
01/07	1135	KSR	Nitrate + Nitrite	4.05 mg/L			HACH 10206	15.62	101.0 *

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Signature

Ashley Greene

 Environmental Services Co., Inc.

AW

ENVIRONMENTAL SERVICES COMPANY, INC.

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Springdale, AR 72764
Phone: (501) 750-1170
Fax: (501) 750-1172

Chain of custody

Company Name:	City of Yellville	<h1 style="font-size: 2em;">Sample Period One</h1>	Parameter										Turn Around			
	Address:		Po Box 647	TSS(28) CBOD(70)	NH3-N(15.A)	FECAL COLI(43IF)	NO3+NO2(91)	Chloride(7) Sulfate(36) TDS(27)							Regular	X
			Yellville, AR 72687												48 Hour	
Phone Number:	(870) 449-5210	Customer Number:												24 Hour		
Fax Number:	(870) 449-4142	Pur. Order Number:												Special:		
Location:																

Sample Identification	Date & Time Collected	Matrix	G	C	F	Container Size & Type	No.	Preservative	TSS(28) CBOD(70)	NH3-N(15.A)	FECAL COLI(43IF)	NO3+NO2(91)	Chloride(7) Sulfate(36) TDS(27)							Lab ID Number		
Effluent 2201010116	1/5/2022	H2O		X		1 LITER	1	NONE	X													
	1300-1600					PLASTIC		6 DEG CENT														
Effluent 2201010116	1/5/2022	H2O		X		8 OUNCE	1	H2SO4		X												
	1300-1600					PLASTIC		6 DEG CENT														
Effluent 2201010119	1/6/2022	H2O	X			100 ML	1	NONE			X											
	1430					PLASTIC		6 DEG CENT														
Effluent 2201010119	1/6/2022	H2O	X			8 OUNCE	1	H2SO4			X											
	1430					PLASTIC		6 DEG CENT														
Effluent 2201010119	1/6/2022	H2O	X			1 LITER	1	NONE				X										
	1430					PLASTIC		6 DEG CENT														

Sampled By:	Date:	Time:	Relinquished By:	Date:	Time:	Received by:	Date:	Time:
<i>Christopher Knight</i>	1/5/2022	1300-1600	<i>Christopher Knight</i>	1/6/2022	1435	<i>David Pierce</i>	01/06/22	1435
	1/6/2022							
Shipped by:	Date:	Time:	Relinquished by:	Date:	Time:	Received by:	Date:	Time:
			<i>David Pierce</i>	01/06/2022	1915	<i>Secure Walkin Code</i>	01/06/2022	1915
Shipped through:								
Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Received for lab by:	Date:	Time:
<i>Secure Walkin cooler</i>	1-7-22	0400				<i>Ned Ryerson</i>	1-7-22	0400

Comments: *Field Test Results: @ 1434 PH: 7.5/7.5 DO: 10.23/10.25*
Field Results completed by DMP. at 1/19/22

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 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2201010207
 Customer Name : YELLVILLE WASTEWATER
 Customer/Permit No. : 3770 / AR0034037 001A
 Report Date : 01/19/22

Composite Date: 01/12/22 - 01/12/22
 Sample Time : 1250-1250
 Sample Type : COMP WWATER
 Sample From : FINAL EFFLUENT


Collected By: TKB
 Delivery By : TKB
 Work Order :
 Purchase Order :

Laboratory Analysis

<u>Analysis</u>						<u>Quality Assurance</u>			
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
								<u>% RPD</u>	<u>% Recovery</u>
01/18	1305	ACL	Ammonia as N, (HACH/SM)	0.05 mg/L		0.07 #/day	SM 2011 4500-NH3-G	5.22	100.0 *
01/14	1215	AAC	Solids, Total Suspended	< 4.50 mg/L		5.93 #/day	SM 2011 2540 D	9.83	N/A *
01/14	0700	DWC	BOD, Carbonaceous	< 2.0 mg/L		2.64 #/day	SM 2011 5210 B	0.00	103.0 *
			Flow	0.158104	MGD				

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Signature 
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ny

Environmental Services Company, Inc.

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Control Number: 2201010210
 Customer Name : YELLVILLE WASTEWATER
 Customer/Permit No. : 3770 / AR0034037 001A
 Report Date : 01/18/22


Sample Date : 01/13/22
 Sample Time : 1300
 Sample Type : GRAB WWATER
 Sample From : FINAL EFFLUENT

Collected By: TKB
 Delivery By : TKB
 Work Order :
 Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>		
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>	
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>				<u>% RPD</u>	<u>% Recovery</u>	
01/13	1300	TKB	Dissolved Oxygen	10.20 mg/L		13.44 #/day	HACH 10360 R1.2	0.00	N/A *
01/13	1300	TKB	pH	8.0 S.U.			SM 2011 4500-H+B	0.00	N/A *
01/13	1300	TKB	Temperature	6.10 °C			SM 2000 2550 B	0.00	N/A *
01/13	1640	TKB	Fecal Coliform	8.6 /100ml			06/2012 Colilert18	0.00	N/A *
01/14	1053	AAC	Nitrate + Nitrite	9.10 mg/L		11.99 #/day	HACH 10206	0.55	100.0 *
			Flow	0.158104	MGD				

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Signature 
 Environmental Services Co., Inc.

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ENVIRONMENTAL SERVICES COMPANY, INC.

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Springdale, AR 72764
Phone: (501) 750-1170
Fax: (501) 750-1172

Chain of custody

Company Name:	City of Yellville	<h1>Sample Period Two</h1>	Parameter					Turn Around	
Address:	Po Box 647		TSS(28) CBOD(70)	NH3-N(15.A)	FECAL COLI(43IF)	NO3+NO2(91)	TSS(28) CBOD(70)	Regular	X
	Yellville, AR 72687							48 Hour	
Phone Number:	(870) 449-5210		Customer Number:					24 Hour	
Fax Number:	(870) 449-4142		Pur. Order Number:					Special:	
Location:									

Sample Identification	Date & Time Collected	Matrix	G	C	F	Container Size & Type	No.	Preservative	TSS(28) CBOD(70)	NH3-N(15.A)	FECAL COLI(43IF)	NO3+NO2(91)	TSS(28) CBOD(70)	Lab ID Number
Effluent 1-207	1/12/2022 1300-1600	H2O		X		1 LITER PLASTIC	1	NONE 6 DEG CENT	X					
Effluent 1	1/12/2022 1300-1600	H2O		X		8 OUNCE PLASTIC	1	H2SO4 6 DEG CENT		X				
Effluent 1-210	1/13/2022 12:50 PM	H2O	X			100 ML PLASTIC		NONE 6 DEG CENT			X			
Effluent 1	1/13/2022 12:50 PM	H2O	X			8 OUNCE PLASTIC		H2SO4 6 DEG CENT				X		

Sampled By:	Date:	Time:	Relinquished By:	Date:	Time:	Received by:	Date:	Time:
Christopher Knight	1/12/2022	1300-1600	Christopher Knight	1/13/2022	12:50 PM	Taylor Berger	1/13/22	12:50 PM

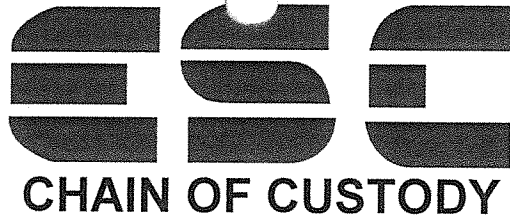
Shipped by:	Date:	Time:	Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Shipped through:	Date:	Time:	Received by:	Date:	Time:	Received for lab by:	Date:	Time:
Taylor Berger	1/13/22	1625				Gene Coy Echo Coy	1/13/22	1625

Comments:

JM

Environmental Services Company, Inc.
 Northwest Arkansas
 1107 Century Street
 Springdale, Arkansas 72762
 website: www.esclabs.com



Corporate Office, Little Rock, Arkansas
 501-221-2565
 Carlsbad, New Mexico
 575-887-1ESC

Phone: 479-750-1170 Fax: 479-750-1172

Client Information				Project Information						Requested Parameters					
Client: Yellville WW				Permit/Project #: AR0034037						Fecal Coliform (43.IF) NO3+NO2 (91)					
Address: PO Box 647 Yellville Ar 72687				Purchase Order #:											
Phone: (870) 232-2984				Sampler Name(s): Taylor Bager											
Fax: (870) 449-4142				and Signature(s): <i>[Signature]</i>											
Contact: Anthony Holt				ESC Client Number: 3770											
Sample Identification		Sample Collection				Sample Containers									
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#						
Final Effluent	220100210	1/13/22	1300	Grab	Wwater	Plastic	100 mls	Cool ≤6°C	1	X					
				Grab	Wwater	Plastic	8 oz	H2SO4	1	X					
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:							
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Used? <input checked="" type="checkbox"/> Intact? <input type="checkbox"/>							
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab: (Signature and Printed Name)		Date	Time	Turnaround: Regular <input checked="" type="checkbox"/> Special <input type="checkbox"/>							
Comments: Per Stewart Oxford, record fecal temperatures below:		1/13/22 1625		Stewart Oxford Echo Cox		1/13/22 1625		Were samples properly preserved: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>							
	Temp °C	Time	Analyst	FLOW DATA		Field Test		Time	Analyst	Result	Result	Units			
Picked up				Analyst: TB	pH: 12.0	Time: 12:00	Analyst: TB	8.0	8.0						
Received by Lab				Time: 12:00	DO: 12.2	Reading: 12.81024	Temp: 13.00	6.1°C	6.1°C						
				Units: MBV											
Cool all samples to 6 degrees C.								Chlorinated? No		This Document is Page 1 of 1					

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Control Number: 2202010326
 Customer Name : YELLVILLE WASTEWATER
 Customer/Permit No. : 3770 / AR0034037 001A
 Report Date : 02/25/22

Composite Date: 02/16/22 - 02/16/22
 Sample Time : 1300-1600
 Sample Type : COMP WWATER
 Sample From : EFFLUENT

Collected By: CK
 Delivery By : DMP
 Work Order :
 Purchase Order :

Laboratory Analysis

<u>Analysis</u>			<u>Laboratory Analysis</u>				<u>Quality Assurance</u>		
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
								<u>% RPD</u>	<u>% Recovery</u>
02/24	1420	AAC	Ammonia as N, (HACH/SM)	0.04 mg/L			SM 2011 4500-NH3-G	4.44	99.0 *
02/18	0850	ACL	BOD, Carbonaceous	3.3 mg/L			SM 2011 5210 B	0.00	112.0 *

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Signature _____



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Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2202010327
 Customer Name : YELLVILLE WASTEWATER
 Customer/Permit No. : 3770 / AR0034037 001A
 Report Date : 02/22/22

Sample Date : 02/17/22
 Sample Time : 1130
 Sample Type : GRAB WWATER
 Sample From : FINAL EFFLUENT

Collected By: CK
 Delivery By : DMP
 Work Order :
 Purchase Order :

Laboratory Analysis

Analysis			Laboratory Analysis				Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision	Accuracy
								% RPD	% Recovery
02/17	1135	DMP	Dissolved Oxygen	9.88 mg/L			HACH 10360 R1.2	0.21	N/A *
02/17	1135	DMP	pH	7.5 S.U.			SM 2011 4500-H+B	0.00	N/A *
02/17	1635	JGK	Fecal Coliform	10.9 /100ml			06/2012 Colilert18	0.00	N/A *
02/28	1415	ACL	Nitrate + Nitrite	2.29 mg/L			HACH 10206	0.00	97.0 *

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Signature *Jan Boston*
 Environmental Services Co., Inc.

WJ

ENVIRONMENTAL SERVICES COMPANY, INC.

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Chain of custody

Company Name:		City of Yellville		<h1>Sample Period Two</h1>										Parameter					Turn Around	
Address:		Po Box 647												TSS(28) CBOD(70)					NH3-N(15-A)	
Phone Number:		Yellville, AR 72687		FECAL COLI(43IF)					NO3+NO2(91)					48 Hour						
Fax Number:		(870) 449-5210		TSS(28) CBOD(70)										24 Hour						
Location:		(870) 449-4142												Special:						
		Customer Number:												Lab ID Number						
		Pur. Order Number:												2202010326						
Sample Identification	Date & Time Collected	Matrix	G	C	F	Container Size & Type	No.	Preservative	TSS(28) CBOD(70)	NH3-N(15-A)	FECAL COLI(43IF)	NO3+NO2(91)	TSS(28) CBOD(70)							
Effluent 02-326	2/16/2022 1300-1600	H2O		X		1 LITER PLASTIC	1	NONE 6 DEG CENT	X					↓ 2202010327						
Effluent 02-326	2/16/2022 1300-1600	H2O		X		8 OUNCE PLASTIC	1	H2SO4 6 DEG CENT		X										
Effluent 02-327	2/17/2022 11:30 AM	H2O	X			100 ML PLASTIC		NONE 6 DEG CENT			X									
Effluent 02-327	2/17/2022 11:30 AM	H2O	X			8 OUNCE PLASTIC		H2SO4 6 DEG CENT				X								

Sampled By:	Date:	Time:	Relinquished By:	Date:	Time:	Received by:	Date:	Time:
Christopher Muight	2/16/2022	1300-1600	Christopher Muight	2/17/2022	11:30 AM	David Prew	02/17/2022	1130
Shipped by:	Date:	Time:	Relinquished by:	Date:	Time:	Received by:	Date:	Time:
			David Prew	02/17/22	1630	James J. J. 2/17		
Shipped through:								
Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Received for lab by:	Date:	Time:
						James Thigpen James Thigpen	2/17/22	1630

Comments: Results: pH: 7.5/7.5 @ 1135 by DMP
D.O.: 9.88/9.90 @ 1135 by DMP
Fecal start: 1635 by DMP
JGR

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Environmental Services Company, Inc.

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Control Number: 2202010762	Composite Date: 02/22/22 - 02/22/22	Collected By: ROBERT PUGSLEY/
Customer Name : YELLVILLE WASTEWATER	Sample Time : 1600-1900/1819	Delivery By : NTR
Customer/Permit No. : 3770 / AR0034037 001A	Sample Type : COMPOSITE/GRAB	Work Order :
Report Date : 03/04/22	Sample From : 2202020111 YELLVILLE	Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
Analysis			Result	Notes	Quantity	Method	Precision	Accuracy
Date	Time	By					Parameter	% RPD
03/01	0715	NTR	Chloride (as Cl)	30.0 mg/L	150.50 #/day	SM 2011 4500 Cl C	9.53	97.9
02/28	1822	NTR	Dissolved Oxygen	10.26 mg/L	51.47 #/day	HACH 10360 R1.2	0.29	N/A
02/28	1822	NTR	pH	7.4 S.U.		SM 2011 4500-H+B	0.00	N/A
03/01	0630	NTR	Solids, Total Dissolved	320.0 mg/L	1605.33 #/day	SM 2011 2540 C	12.50	N/A
02/28	2135	NTR	Solids, Total Suspended	< 2.50 mg/L	12.54 #/day	SM 2011 2540 D	2.49	N/A *
03/01	0705	NTR	Sulfate (as SO4)	10.000 mg/L	50.17 #/day	EPA 375.4	0.00	N/A
02/28	2115	NTR	Fecal Coliform	< 1.0 /100ml		06/2012 Colilert18	0.00	N/A
03/03	0705	NTR	Nitrate + Nitrite	2.94 mg/L	14.75 #/day	HACH 10206	0.55	101.8 *
			Flow	0.602000	MGD			

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Signature 
 Environmental Services Co., Inc.

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ENVIRONMENTAL SERVICES COMPANY, INC.

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Fax: (501) 750-1172

Chain of custody

Company Name:	City of Yellville	Sample Period Three	Parameter						Turn Around				
Address:	Po Box 647		NH ₃ -N(15.A)	FECAL COLI(43IF)	TSS (66) CONTROL						Regular <input checked="" type="checkbox"/>		
	Yellville, AR 72687												48 Hour <input type="checkbox"/>
Phone Number:	(870) 449-5210					Customer Number:							24 Hour <input type="checkbox"/>
Fax Number:	(870) 449-4142					Pur. Order Number:							Special: <input type="checkbox"/>
Location:													

Sample Identification	Date & Time Collected	Matrix	G	C	F	Container Size & Type	No.	Preservative	NH ₃ -N(15.A)	FECAL COLI(43IF)	TSS (66) CONTROL									Lab ID Number
Effluent	2/22/2022	H2O		X		8 OUNCE	1	H2SO4	X											2202010762
	1600-1900					PLASTIC		6 DEG CENT												
Effluent <i>2-28-22</i>	2/23/2022	H2O	X			100 ML	1	NONE		X										
	<i>1819</i>					PLASTIC		6 DEG CENT												
<i>Effluent</i>	<i>2/22/2022</i>																			
	<i>1600-1900</i>	<i>H2O</i>		<i>X</i>																

*pH 7.4 D.O. 10.26 } 2-28-22 @ 1822 NPL
pH 7.4 D.O. 10.22*

Sampled By: Robert Pugsley	Date: 2/22/2022	Time: 1600-1900	Relinquished By:	Date: 2/23/2022	Time: 1825	Received by:	Date:	Time:
<i>[Signature]</i>			<i>[Signature]</i>					
Shipped by:	Date:	Time:	Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Shipped through:	Date:	Time:	Received by:	Date:	Time:	Received for lab by:	Date:	Time:
						<i>Red Pugsley</i>	<i>2-28-22</i>	<i>1825</i>

Comments:
Springdale control number 2202020762

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Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2203010093
Customer Name : YELLVILLE WASTEWATER
Customer/Permit No. : 3770 / AR0034037 001A
Report Date : 03/14/22

Sample Date : 03/03/22
Sample Time : 1245
Sample Type : GRAB WWATER
Sample From : FINAL EFFLUENT

Collected By: JGK
Delivery By : JGK
Work Order :
Purchase Order :

Laboratory Analysis

Analysis						Quality Assurance			
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision	Accuracy
								% RPD	% Recovery
03/10	1530	ACL	Chloride (as Cl)	50.0 mg/L			SM 2011 4500 Cl C	10.53	95.0 *
03/03	1250	JGK	Dissolved Oxygen	8.30 mg/L			HACH 10360 R1.2	0.00	N/A *
03/03	1250	JGK	pH	7.6 S.U.			SM 2011 4500-H+B	0.00	N/A *
03/10	1446	AAC	Solids, Total Dissolved	354.0 mg/L			SM 2011 2540 C	24.60	N/A *
03/10	1415	AAC	Sulfate (as SO4)	10.000 mg/L			EPA 375.4	0.00	N/A *
03/03	1250	JGK	Temperature	19.20 °C			SM 2000 2550 B	0.00	N/A
03/03	1715	JGK	Fecal Coliform	30.1 /100ml			06/2012 Colilert18	0.00	N/A *
03/11	1350	JNT	Nitrate + Nitrite	2.42 mg/L			HACH 10206	0.82	97.9 *

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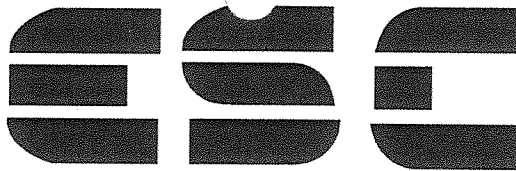
Signature _____



Environmental Services Co., Inc.

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Environmental Services Company, Inc.
 Northwest Arkansas
 1107 Century Street
 Springdale, Arkansas 72762
 website: www.esclabs.com



Corporate Office, Little Rock, Arkansas...
 501-221-2565
 Carlsbad, New Mexico
 575-887-1ESC

Phone: 479-750-1170 Fax: 479-750-1172

CHAIN OF CUSTODY

Client Information						Project Information					Requested Parameters								
Client:		Yellville WW				Permit/Project #:		AR0034037			Chloride (7), Sulfate (36), TDS (27)	Fecal Coliform (43,IF)	NO3+NO2 (91)						
Address:		PO Box 647 Yellville Ar 72687				Purchase Order #:													
Phone:		(870) 232-2984				Sampler Name(s):		J. Krenschild											
Fax:		(870) 449-4142				and Signature(s):													
Contact:		Anthony Holt				ESC Client Number:		0											
Sample Identification			Sample Collection			Sample Containers													
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#										
Final Effluent	2203010093	3/13/22	1245	Grab	Wwater	Plastic	1 Liter	Cool ≤6°C	1	X									
		L	L	Grab	Wwater	Plastic	100 mls	Cool ≤6°C	1		X								
				Grab	Wwater	Plastic	8 oz	H2SO4	1			X							
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:		Used?	<input checked="" type="checkbox"/>	Intact?	<input type="checkbox"/>						
		3/13/22	1245	walk-in cooler		3/13/22	1700	Turnaround:		Regular	<input type="checkbox"/>	Special	<input type="checkbox"/>						
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Were samples properly preserved:		Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>						
		3/13/22	1700	James Thornton		3/14/22	0800												
Comments: Per Stewart Oxford, record fecal temperatures below:						FLOW DATA		Field Test	Time	Analyst	Result	Result	Units						
	Temp °C	Time	Analyst	Analyst:		pH:		1250	08		7.6	7.6							
	Picked up			Time:		DO:		1250	08		8.3	8.3							
	Received by Lab			Reading:		Temp:		1250	08		19.2	19.2							
				Units:		Fecal coliform		1710	08										
Cool all samples to 6 degrees C.						Chlorinated?		No		This Document is Page 1 of 1									

Received from secure walkin cooler

Environmental Services Company, Inc.

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Control Number: 2203010216
 Customer Name : YELLVILLE WASTEWATER
 Customer/Permit No. : 3770 / AR0034037 001A
 Report Date : 03/18/22

Composite Date: 03/10/22 - 03/10/22
 Sample Time : 1300-1600
 Sample Type : COMP WWATER
 Sample From : EFFLUENT

Collected By: JGK
 Delivery By : JGK
 Work Order :
 Purchase Order :

Laboratory Analysis

Analysis			Laboratory Analysis				Quality Assurance	
Date	Time By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
03/15	153 ACL	Ammonia as N, (HACH/SM)	0.03 mg/L			SM 2011 4500-NH3-G	40.00	109.0 *
03/17	1516 AAC	Solids, Total Suspended	4.00 mg/L			SM 2011 2540 D	0.32	N/A *
03/11	0840 ACL	BOD, Carbonaceous	< 2.0 mg/L			SM 2011 5210 B	0.00	88.0 *

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Signature 
 Environmental Services Co., Inc.

Handwritten initials

Environmental Services Company, Inc.

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Control Number: 2203010219
 Customer Name : YELLVILLE WASTEWATER
 Customer/Permit No. : 3770 / AR0034037 001A
 Report Date : 03/15/22

Sample Date : 03/10/22
 Sample Time : 1240
 Sample Type : GRAB WWATER
 Sample From : FINAL EFFLUENT

Collected By: JGK
 Delivery By : JGK
 Work Order :
 Purchase Order :

Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
03/10	1245	JGK	Dissolved Oxygen	8.90 mg/L			HACH 10360 R1.2	0.00	N/A *
03/10	1245	JGK	pH	7.5 S.U.			SM 2011 4500-H+B	0.00	N/A *
03/10	1245	JGK	Temperature	13.20 °C			SM 2000 2550 B	0.00	N/A *
03/10	1655	JGK	Fecal Coliform	8.9 /100ml			06/2012 Colilert18	0.00	N/A *
03/15	1323	ACL	Nitrate + Nitrite	3.61 mg/L			HACH 10206	2.06	113.0 *

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Signature 
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