

## MAGNOLIA WASTEWATER SYSTEM

P.O. BOX 666

MAGNOLIA, ARKANSAS 71754-066

(870) 234-2955

mwws@sbcglobal.net



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

23 August 2022

Gija Geme  
Southern Arkansas University  
P.O. Box 9289  
Magnolia, AR 71754-9289

Project: Magnolia Effluent/Influent Sample(s)  
Project Number: August 2022 – Effluent  
SDG Number: 2208238

Enclosed are the results of analyses for samples received by the laboratory on 16-Aug-22 09:09. If you have any questions concerning this report, please feel free to contact me.

#### Sample Receipt Information:

Custody Seals	✓
Containers Correct	✓
COC/Labels Agree	✓
Received On Ice	✓
Temperature on Receipt	2.0°C

Sincerely,

A handwritten signature in blue ink that reads "Norma James".

Norma James  
Technical Director

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2022

Joshua Hickey  
Enforcement Analyst  
Division of Environmental Quality  
Office of Water Quality  
5301 Northshore Dr.  
North Little Rock, Arkansas 72118

RE: Progress report; City of Magnolia-Big Creek WWTP NPDES Permit No. AR0043613,  
AFIN 14-00059.

Joshua Hickey,

This Letter will serve as the City of Magnolia-Big Creek WWTP progress report as required by NPDES  
No. AR0043613.

### TRC;

The City of Magnolia-Big Creek WWTP is currently using chlorine gas to reduce pathogens and using  
Sulfur Dioxide to remove the chlorine from the final effluent to obtain the current permit requirements.

	January	February	March	April	May	June	July	August	September	October	November	December	
TRC,mg/l	0.04	0.03	0.02	0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	2020
TRC,mg/l	0.08	0.00	0.01	0.00	0.00	0.04	0.03	0.02	0.00	0.00	0.00	0.00	2021
TRC,mg/l	0.00	0.00	0.00	0.00	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2022

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The City of Magnolia remained in compliance in 2019 with the current permit requirements. We are currently exploring other alternative options of disinfection of our final effluent. We have enlisted A.L. Franks Engineering to design an alternative disinfection for the plant, such as paracetic acid.

### **Total Recoverable lead;**

The City of Magnolia is still in dialogue with A.L. Franks engineering to determine how we will meet the new permit requirements.

	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
Lead/ug/l				
2020	0.013	0.86	164.0	10.0
2021	0.5	15.0	15.0	15.0
2022	0.5	15.6	n/a	n/a

### **\*UPDATED AS OF 08/24/2022**

Upon further review and examination of the reports received, we have discovered that the laboratory analysis performed was done so incorrectly. The MQL for lead was not met; therefore, erroneous results were obtained. A retest of the sample was performed on 08/14/2022 with a resulting lead concentration of 0.313 ug/l.

We believe this was due to a miscommunication with the lab. They were unaware of the MQL. However, they have been made aware and will run to the correct MQL from now on. Due to the low results obtained after correcting the method, we no longer believe we have any lead issues. We will continue to monitor with increased frequency the lead concentrations.

### **WET Testing;**

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The City of Magnolia has met the current permit requirements for WET testing 2020

In 2021 the lab had some problems with their material used in testing, we also experienced some pathogen interference during our test.

We are discussing the permit requirement changes with our current Lab.

	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
2020	PASS	PASS	PASS	PASS
retest				
retest				
retest				

	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
2021	PASS	PASS/FAIL	PASS/FAIL	PASS
retest		PASS	PASS	
retest			PASS	
retest				

	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
2022	PASS	PASS	N/A	N/A
retest				
retest				
retest				

If you have any questions, please feel free in contacting me at 870-234-2955

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Thank you,

Russell Thomas, Superintendent  
City of Magnolia Big-Creek WWTP  
NPDES Permit No. AR0043613  
AFIN # 1400059