



118 East Broad Street
Texarkana, AR 71854
PHONE 870.216.1906 • FAX 870.216.1907

July 1, 2019

Ms. Bailey Taylor
Water Division, Enforcement Analyst
Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118-5317

Re: City of Magnolia, AR
AFIN: 14-00059 NPDES Permit No. AR0043613
Certificate of Adequacy of Treatment

Dear Ms. Taylor:

Please find transmitter herewith one (1) copy of the plans and specifications for the automatic chemical feed project for the Magnolia Waste Water Treatment Plant. The project was bid in the spring of 2018 and placed in service in September of 2018 and includes the automatic dosing of caustic soda for pH adjustment. The 1989 original design of the plant included the ability for pH adjustment. Prior to this improvement, the Utility was adjusting pH manually with little consistency. I have also included a Safety Data Sheet (SDS) for caustic soda for your reverence.

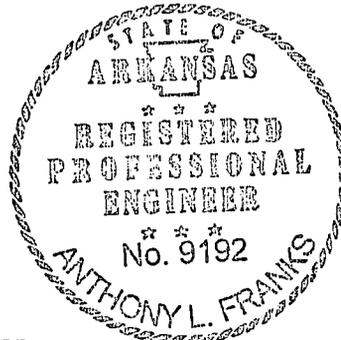
The dosing is controlled by an electronic signal from a 4-20 milli-amp probe that initiates the chemical feed pump at a pH of 6.5. Should influent pH drop to 6.2, the pump begins to operate at 100% until the pH returns to greater than 6.5. The maximum pump rate is 158 gallons per hour and the average volume of caustic soda used is approximately 30 gallons per month. Since the automated feed system was placed in service there was one pH excursion in December of 2018 which was due to excessive rainfall and documented in a non-compliance report.

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

Sincerely,

A. L. FRANKS ENGINEERING, INC.


Anthony L. (Andy) Franks, P.E.
President/CEO



CC: Mayor Parnell Vann
Russell Thomas, Magnolia Waste Water

ARKANSAS CERTIFICATE OF AUTHORIZATION NUMBER 1681

OKLAHOMA CERTIFICATE OF AUTHORIZATION NUMBER 5503

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NORTH LITTLE ROCK AR 72118

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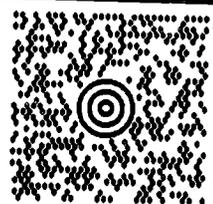
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TO: ARKANSAS DEPT OF ENVIRONMENTAL QUALITY
5301 NORTHSORE DR

A.L. FRANKS ENGINEERING
(903) 490-3701
118 EAST BROAD ST.
TEXARKANA AR 71854

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TO: ARKANSAS DEPT OF ENVIRONMENTAL QUALITY
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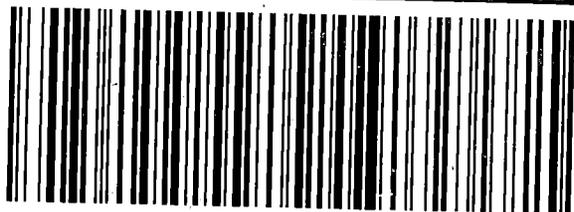
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