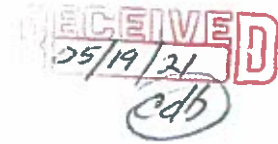


LANCE R. LEFLEUR
DIRECTOR



KAY IVEY
GOVERNOR

Alabama Department of Environmental Management
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1400 Coliseum Blvd. 36110-2400 ■ Post Office Box 301463
Montgomery, Alabama 36130-1463
(334) 271-7700 ■ FAX (334) 271-7950



May 14, 2021

Mr. C. Daryl Baker, General Manager
Water Works and Sewer Board of the City of Eufaula
P.O. Box 26
Eufaula, Alabama 36072

RE: Sanitary Survey – FY2021
PWSID AL0000085
Barbour County

Dear Mr. Baker:

On May 4, 2021, a sanitary survey was conducted of Eufaula Water Works and Sewer Board. The Eufaula water system is a community system and consists of seven (7) wells with a total capacity of 3,805 GPM, eleven (11) storage tanks with a total storage capacity of 4,557,000 gallons, and distribution mains to serve approximately 5,990 customer connections. Please thank the water staff for their assistance during the inspection.

According to the USEPA, a sanitary survey must include a comprehensive review of eight areas within the system: source, treatment, distribution system, finished water storage, pumps, monitoring/reporting, management/operation, and operator compliance.

SOURCE:

Ground water from seven (7) wells with a total capacity of 3,805 GPM. For the previous twelve months, the water system produced an average of 49.9 million gallons per month with a maximum of 60.5 million gallons per month. Auxiliary power is available. The Department recommends all systems have access to auxiliary power in case of emergency.

TREATMENT:

Treatment at all wells consists of gaseous chlorine for disinfection. A chlorine residual of 2.42 mg/l with a pocket colorimeter and a residual of 2.63 mg/l with an in-line chlorine analyzer were recorded from the same point in the distribution system. The chlorine concentration is satisfactory. The Department recommends evaluating the in-line chlorine analyzers for improper function due to the significant deviation in instrumentational measurements.

DISTRIBUTION SYSTEM:

The distribution system serves approximately 5,990 service connections. The water loss for the previous 12 months averaged 23.7% before adjustment and 11.4% after adjustment which is

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(205) 942-6168
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2715 Sandlin Road, S.W.
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Mobile Branch
2204 Perimeter Road
Mobile, AL 36615-1131
(251) 450-3400
(251) 479-2593 (FAX)

Mobile-Coastal
3664 Dauphin Street, Suite B
Mobile, AL 36608
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Mr. C. Daryl Baker, General Manager
May 14, 2021
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satisfactory. The Department recommends an adjusted water loss of no more than 15%. Interconnections are maintained to purchase or sell water from Bakerhill and Cowikee water systems for emergencies.

FINISHED WATER STORAGE:

Water storage consists of three ground storage tanks and eight elevated storage tanks with a total storage capacity of 4,557,000 gallons. Fencing and signage at water storage tanks was in unsatisfactory condition due to storm damage and will need repair. The Department recommends all systems install SCADA to assist in running the distribution system properly.

PUMPS:

Three booster pumping stations with combined capacity of 1,700 GPM. One 1,000 GPM booster pump (Broad St BPS), one 400 GPM booster pump (Clayton Hwy BPS), and one 300 GPM booster pump (Foxridge). The pumps, pump houses, and fencing were all in satisfactory condition.

MONITORING/REPORTING:

Prior to conducting the onsite visit, the Department files were reviewed and this information was compared to the files kept at the water treatment plant.

The bacteriological sample site, lead/copper, disinfection byproduct, cross connection control plans were readily available during the inspection. These plans were reviewed and the information was found to be current. These plan should be updated when there is a change in lab, personnel, contact information, etc.

The monthly bacteriological results and monthly operational reports have been timely and satisfactorily completed.

The last lead/copper compliance monitoring was completed in 2020. No violations were noted in this round of sampling. The next compliance monitoring for this rule must be conducted June-September 2023.

Disinfection byproduct monitoring must be performed according to the approved plan. There have been no disinfection byproduct monitoring and reporting violations within the last 3 years.

MANAGAEMENT/OPERATION:

Overall, the system appeared to be operating properly. The staff are receiving adequate training and instructions by the water system management.

Aesthetics play a significant role in the customers' perception of the safety of their drinking water. The maintenance and cleanliness of the well and tank sites were satisfactory.

OPERATOR COMPLIANCE:

Two Grade III, six grade II, and one grade I certified operators are employed, which is satisfactory. The operators are knowledgeable about the water system and ADEM requirements.

Mr. C. Daryl Baker, General Manager
May 14, 2021
Page 3

A well log was noted at the treatment plants, all necessary documents and recordkeeping applicable to this inspection were properly maintained. Please continue submitting the MORs in a timely manner.

The following deficiencies were identified:

1. The Department recommends evaluating the in-line chlorine analyzers for improper function due to the significant deviation in instrumentational measurements.
2. Fencing and signage at water storage tanks was in unsatisfactory condition due to storm damage and will need repair.

Enclosed is a copy of the sanitary survey form.

The next annual Consumer Confidence Report (CCR) must be completed for calendar year 2020. If your water system sells to another water system, your water quality information must be provided to the purchasing system(s) by April 1, 2021, unless another date has been agreed upon by all systems. The Department recommends the use of an updated CCR Certification Form, available on the ADEM Drinking Water website or can be accessed via direct link at adem.alabama.gov/DeptForms/Form347.pdf. The CCR must be properly delivered to your customers no later than July 1, 2021. A copy of the CCR and CCR Certification Form must be received by the Department in an electronic format no later than July 1, 2021. If you have any questions regarding the CCR, please call Ms. Laura Taylor at (334) 271-7820 or email her at lat@adem.alabama.gov.

Please continue to stay updated on changes to Division 7 and Division 10 regulations. The most current regulations and forms can be found at www.adem.alabama.gov. Also, please be mindful of ADEM Admin. Code 335-7-10-.06 and all electronic data reporting and correspondence requirements, which can be met through the Electronic Drinking Water Reporting System (eDWRS). This can be found at <http://app.adem.alabama.gov/edwr>. If you need any assistance, please contact the eDWRS coordinator Donna Barton at 334-271-7726 or eDWR@adem.alabama.gov.

If you have any questions concerning this correspondence, please contact me at (334) 274-4244 or robert.compton@adem.alabama.gov.

Sincerely,



Robert Compton
Water Supply Engineering Section
Drinking Water Branch

Enclosure: Sanitary Survey Form

Alabama Department of Environmental Management - Drinking Water Branch Public Water System Evaluation Form

Annual Inspection
 Sanitary Survey

Surface
 Ground
 Purchase
 NTNC

System Name: Evaula Water Works and Sewer Board PWSID#: AL88888888
 County: Barbour Survey Date (MM/DD/YY): 5/4/2021
 Operator: Michael A Taylor
 Certification Grade: II Operating Permit Exp Date (MM/DD/YY): 10/31/2023

Average Daily Production: 1,681,660 Gallons
 Maximum Daily Production: 2,016,800 Gallons
 Raw Water Pumping Capacity: 5.4797 MGD
 Finished Water Pumping: 5.4792 MGD

WATER CONNECTIONS
 Total Number of Connections: 5940 STORAGE CAPACITY: 11
 # of Purchase Connections: 2 Total Storage (gals): 4,557,000
 Gals. Purchased Per Month: 5

C12: 2.42 pH/C: 5 psi
 Well #5: 2.13 cont.

OVERALL RATING: 5
 Robert J. Compton
ADEM INSPECTOR
Michael J
SYSTEM REPRESENTATIVE



SYSTEM O&M

| | |
|--------------------------------------|---|
| 30. Facility Security | I |
| 31. Routine Maintenance Program | S |
| 32. Preventative Maintenance Program | S |
| 33. Supplies/Spare Parts | S |
| 34. Instrument Calibration Schedule | S |
| 35. Waste Disposal | S |
| 36. SOP Manual | S |

OPERATION AND CONTROL

| | |
|---------------------------|---|
| 37. Certified Operators | S |
| 38. Laboratory Equipment | S |
| 39. SCM/SCD | N |
| 40. Online Turbidimeters | N |
| 41. Computer Capabilities | S |
| 42. Standby Generators | S |

MONITORING/REPORTING/RECORDKEEPING

| | |
|--|---|
| 43. Lead and Copper Plan 2020 | S |
| 44. Bac-T Sample Site Plan | S |
| 45. Cross Connection Control Policy | S |
| 46. DBP Monitoring Plan | S |
| 47. Disinfection By-Product Monitoring | S |
| 48. Chemical Monitoring Schedule | S |
| 49. Water Conservation Plan | S |
| 50. Source Water Assessment Plan 2013 | S |
| 51. Vulnerability Assessment | S |
| 52. Emergency Response Plan 2011 | S |
| 53. Consumer Confidence Reporting | S |
| 54. Monthly Operation Data Reports | S |
| 55. Customer Complaint Records | S |

SOURCE

| | |
|---------------------|---|
| 1. Quantity | S |
| 2. Security | I |
| 3. Pumping Capacity | S |
| 4. Intake Structure | S |
| 5. Pumps | S |
| 6. Screen | S |

TREATMENT

| | |
|------------------------------------|---|
| 7. Flash Mix | N |
| 8. Flocculation | N |
| 9. Sedimentation | N |
| 10. Filtration | N |
| 11. Mechanical Equipment Condition | S |
| 12. Chemical Storage | S |
| 13. Chemical Feed Equipment | S |
| 14. Chemical Dosages | S |

DISTRIBUTION SYSTEM

| | |
|-------------------------------------|---|
| 15. Finished Water Pumping Capacity | S |
| 16. Water Quality | S |
| 17. Pressure | S |
| 18. Fire Flow | S |
| 19. Distribution System Condition | S |
| 20. Valve/Hydrant Maintenance | S |
| 21. Flushing Program | S |
| 22. Leak Detection/Repair | S |
| 23. System Map | S |
| 24. Disinfectant Residual | S |
| 25. Booster Pumping Stations | S |

STORAGE

| | |
|--------------------------------------|---|
| 26. Capacity | S |
| 27. Protection/Security | I |
| 28. Bypass/Drain/Overflow/Sample Tap | S |
| 29. Maintenance Program | S |

Additional Comments: Well #2 not survey due to access, only 6 in monthly, barbs in well #5 fencing, Well #6, Well #7 print, Well #4 off-line, Well #6 analytical monitoring, Well #3 check valve blocked.