



## DEPARTMENT OF THE AIR FORCE

HEADQUARTERS 19TH AIRLIFT WING (AMC)  
LITTLE ROCK AIR FORCE BASE, ARKANSAS

26 July 2018

MEMORANDUM FOR 19 CES/CEOIU  
19 CES/CEIE  
19 AW/PA  
19 AW/JA

FROM: 19 AMDS/SGPB

SUBJECT: Little Rock AFB (LRAFB) Water Quality Report (Q2 2018)

1. In accordance with (IAW) AFI 48-144, *Drinking Water Surveillance*, the LRAFB Bioenvironmental Engineering (BE) Flight conducts the water surveillance and compliance program for the installation. The base drinking water program is supported by numerous base agencies which include Civil Engineering-Water/Fuels Maintenance (CEOIU), Civil Engineering-Environmental (CEIE), Public Affairs (PA), Judge Advocate (JA) and BE, referred to as the Drinking Water Working Group (DWWG). The water surveillance and compliance program consists of 1) Routine compliance sampling to meet federal, state, and Air Force (AF) requirements, 2) Non-routine/response samples required following incidents affecting drinking water quality (i.e. water service line breaks), 3) Cooperation with the Jacksonville Water Board (Water Purveyor) and 4) Correspondence with the Arkansas Department of Health (ADH). The ADH has primacy for the state of Arkansas and regulates all public water systems within the state, IAW the Safe Drinking Water Act.
2. BE conducted routine compliance sampling during the months of April and May only for Q2, 2018 due to privatization occurring in May. Sampling conducted by BE included bacteriological, chlorine and pH monitoring conducted at 10 locations throughout the water system. Quarterly disinfection by product samples were collected by the ADH at 2 locations during the same period.
  - a. All routine samples taken by BE during Q2 were found to be total coliform and fecal coliform absent. This complies with all ADH and AF requirements. Additionally, 24 samples collected at child development centers, youth centers, community centers and aircraft water servicing points were found to be coliform and fecal coliform absent IAW AFI 48-144.
  - b. Chlorine measurements collected by BE for the system during Q2 demonstrate an effective disinfectant residual is being maintained within the system. The range of free-available chlorine during this period was 0.31 mg/L to 1.12 mg/L. This complies with ADH and AF requirements.
  - c. PH measured throughout the system during Q2 ranged from 6.9 to 7.3. This compares to the Safe Drinking Water Act secondary standards of 6.5 to 7.3.
  - d. Two samples were collected by the ADH in Q2 for disinfection by-products IAW the Disinfectant By-Product Monitoring Rule. Analysis was performed on these samples for Total Trihalomethanes (TTHM) and Haloacetic Acids (HAA5) contaminants. These samples were collected at Building 1423 and the water main adjacent to Building 1389. Compliance is based on a running annual average for the entire water system and a locational running average for each location. The Q2 2018 annual running average for the system was 64 parts per billion (ppb) for TTHM contaminants and 25 ppb for HAA5 contaminants. The Q2 2018 Operational Evaluation Limit was 55 ppb for TTHM contaminants and 29 ppb for HAA5 contaminants. This compares to a compliance standard of 80 ppb for TTHM and 60 ppb for HAA5.

3. Members of the LRAFB water quality team attended a private water review board meeting with Jacksonville Water Works on 24 July 2018. Attendees included: Lt Col Weaver and TSgt Metts from BE, Capt Downing from PA and Mr. Jake Short, Mr. Sal Pappalardo and Mr. Chris Long from Jacksonville Water Works. Topics discussed in the meeting included:

- a. Successful purveyor ownership transition from LRAFB CEOIU to Jacksonville Water Works (occurred 1 May 2018).
  - b. Successful implementation of weekly flushing (occurs every Saturday) by the purveyor at Building 1389. NOTE: Until contracting procurement occurs to loop this location to the water line on Centennial Drive, Jacksonville Water Works will work with local sellers to add an auto flusher in replacement of weekly manual flushing.
  - c. Plans to replace water lines within enlisted housing to meet demand levels with properly sized pipes. Until this project occurs, the purveyor will continue use of 5 auto flushers within housing.
  - d. Recommendation for LRAFB to add a timed auto flusher at the newly constructed Fire Department training building (building number TBD, location is near fuel yard on base). Current water lines are fire lines only and lead to dead ends. The LRAFB Fire Department would like to add water to this location for members to use during training, however due to lack of demand and no usage at this location, both the purveyor and BE have concerns about members potentially drinking the stagnant water. To prevent this, it is recommended LRAFB install the auto timer prior to putting water lines into use at the location and attached signage clearly demarcating non-potable usage. Project POCs are Mr. Danny Mills (CORE) and Mrs. Diane Priddy (Contracting).
  - e. BE has agreed to notify Jacksonville Water Works (Mr. Chris Long) in advance of any upcoming exercises within the Camp Warlord area for additional flushing preparations.
  - f. ADH will continue to perform routine Fluoride sampling for LRAFB. The purveyor has agreed to send BE any future Fluoride results (POC is Mr. Sal Pappalardo).
4. If you have any questions regarding this survey please contact TSgt Metts or me at 987-7398.



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Bioenvironmental Engineering Flight Commander

cc:  
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