



## DEPARTMENT OF THE AIR FORCE

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



11 April 2017

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

FROM: 19 AMDS/SGPB

SUBJECT: Little Rock AFB Water Quality Report (Q1 2017)

1. In accordance with (IAW) AFI 48-144, *Drinking Water Surveillance*, the Little Rock AFB 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) Direct 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, In Accordance With (IAW) the Safe Drinking Water Act.
2. Routine compliance sampling conducted by BE during Q1, 2017 included bacteriological, chlorine and pH monitoring conducted at 12 locations throughout the water system. Quarterly disinfection by product samples were collected by the ADH at 2 locations during Q1, 2017.
  - a. All routine samples taken during Q1 were found to be total coliform and fecal coliform absent. This complies with all ADH and AF requirements. Additionally, 27 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 throughout the system during Q1 demonstrate that an effective disinfectant residual is being maintained within the system. The range of free-available chlorine during the Q1 period was 0.34 mg/L to 1.41 mg/L. This complies with ADH and AF requirements.
  - c. PH measured throughout the system during Q1 ranged from 6.9 to 7.8. This compares to the Safe Drinking Water Act secondary standards of 6.5 to 8.5.
  - d. Two samples were collected by the ADH in Q1 for disinfection by-products IAW the Disinfectant By-Product Monitoring Rule. Analysis was performed on these samples for Total Trihalomethane (TTHM) and Haloacetic Acid (HAA) 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 Q1 2016 annual running average for the system was 61 parts per billion (ppb) for TTHM contaminants and 21 ppb for HAA contaminants. The Q1 2017 Operational Evaluation Limit was 53 ppb for TTHM contaminants and 20 ppb for HAA contaminants.

This compares to a compliance standard of 80 ppb for TTHM and 60 ppb for HAA. Additionally, results show that flushing lines near Camp Warlord aided in the successful attempt to lower high residuals of TTHM within the LRAFB water system. This plan was applied due to the exceedance in the Operational Evaluation Limit which occurred in 2014. Flushing this area will continue until water infrastructure upgrades are complete. Once upgrades are complete, BE will evaluate TTHM levels to provide an appropriate recommendation to either continue or rescind flushing for increased TTHM levels.

3. Six samples were collected during Q1 2017 in response to the installation of a new water main. No water service line breaks occurred during this quarter. These samples, which were collected on 25 March 2017, were found to be coliform and fecal coliform absent; water lines were returned to normal service operations by CEOIU.

4. Members of the Little Rock AFB water quality team attended a private water review board meeting with Jacksonville Water Works on 22 March 2016. Attendees included: Lt Col Weaver, Capt Bennett and SrA Monroy from BE, Mr. Henderson and from CEOIU and Ms. Gamber from CEIE. Topics discussed included the installation of a new water main on Arnold drive, talks about the new UCMR4 sampling that the state will be conducting for LRAFB and the privatization agreement that Jacksonville Water Works.

5. If you have any questions regarding this survey please contact SrA Coleman or myself at 987-7398.

AARON D. WEAVER, Lt Col, USAF, BSC  
Flight Commander, Bioenvironmental Engineering

cc:

19 CES/CEO  
19 AMDS/CC  
19 MDG/SGP